PROGRAMME

ECI 2024
DUBLIN 1-4 SEPTEMBER
7th EUROPEAN CONGRESS OF IMMUNOLOGY

Under the auspices of European Federation of Immunological Societies, EFIS and the Irish Society for Immunology
SUNDAY, 1 SEPTEMBER 2024

AUDITORIUM | 15:15-16:15
PLENARY SESSION 1
Chairs: Marcos Lopez Hoyos (Spain), Duygu Sag (Turkey)

15:15   Humoral innate immunity in COVID-19
        Cecilia Garlanda (Italy)

15:40   Discussion

15:45   Type 2 immunity: macrophages, matrix & metazoan parasites
        Judith E. Allen (United Kingdom)

16:10   Discussion

AUDITORIUM | 16:15-17:00
KEYNOTE LECTURE 1
Chairs: Mark Coles (United Kingdom), Carsten Watzl (Germany)

16:15   Immune checkpoint inhibition in cancer therapy: mechanisms of CTLA-4 and PD-1 blockade
        James P. Allison (USA)

16:50   Discussion
MONDAY, 2 SEPTEMBER 2024

AUDITORIUM | 08:30-09:45
EFIS PRESIDENT’S SYMPOSIUM
Chairs: Christine Falk (Germany), Federica Sallusto (Switzerland)
08:30 Translating cytokine signaling
John O’Shea (USA)
08:50 Autoimmunity against cytokines
Anne Puel (France)
09:10 Multi-omic approaches to stratify Lupus
Virginia Pascual (USA)
09:30 Discussion

LIFFEY B | 08:30-09:45
SYMPOSIUM - CANCER IMMUNOLOGY
Chairs: Joanne Lysaght (Ireland), Magdalena Winiarska (Poland)
08:30 Utilising immune modulatory miRNAs (im-miRs) to overcome immune evasion
Barbara Seliger (Germany)
08:50 Targeting pro-tumour innate immune cells to enhance
cancer immunotherapy
Vincenzo Bronte (Italy)
09:10 Unconventional T cells in cancer
Seth Coffelt (United Kingdom)
09:30 Discussion

AUDITORIUM | 10:30-11:45
SYMPOSIUM - ALLERGY
Chairs: Björn Rúnar Ludviksson (Iceland), Rachel McLoughlin (Belgium)
10:30 The gut environment in allergy and tolerance development during
childhood and adolescence
Eva Sverremark Ekstrom (Sweden)
10:50 Coeliac disease
Ludvig Sollid (Norway)
11:10 Respiratory immunity and allergy
Philipp Starkl (Austria)
11:30 Discussion
MONDAY, 2 SEPTEMBER 2024

LIFFEY A | 08:30-09:45
EULAR SYMPOSIUM
MOLECULAR AND CELLULAR SIGNATURES OF THE INFLAMED SYNOVIAL JOINT
Chairs: Michael Bonelli (Austria), Felice Rivellese (United Kingdom)

08:30 Age specific synovial tissue pathotypes underpin childhood-onset inflammatory arthritis
Adam Croft (United Kingdom)

08:50 What autoantigens are presented to CD4+ T cells in the RA synovial joint?
Kathryn Steel (United Kingdom)

09:10 Different synovial tissue macrophage subtypes and their niches in human synovium during inflammation and disease resolution
Lucy Macdonald (United Kingdom)

09:30 Discussion
08:30  IL-12 expression on allergen-containing VNP prevents Th2 induction in a humanized mouse model of mugwort allergy  
**Bernhard Kratzer, Sandra Hofer, Peter Tauber, Doris Trapin, Mirjam Schaar, Gerhard Hofer, Walter Keller, Gabriele Gadermaier, Winfried Pickl (Austria)**

08:40  Development of an in vivo model of IgE-mediated allergy  
**Caterina Vizzardelli, Alessio Gentile, Eva Untersmayr, Alex Farr, Barbara Bohle (Austria)**

08:50  Impact of micro- and nanoplastic particles on allergic responses in BALB/c mice  
**Ece Danisman, Sahar Kazemi, My Nguyen, Lukas Wimmer, Lea Ann Dailey, Michelle M. Epstein (Austria)**

09:00  Eosinophil responses in adaptive pulmonary type 2 immunity is locally regulated by interferon type 1 and -2  
**Sjoerd Schetters¹, Stijn Verwaerde¹, Julien Catherine¹, Sina Karimi¹, Sam Dupont¹, Karel Van Damme¹, Elisabeth De Leeuw², Louis Boon², Florence Roufosse¹, Bart Lambrecht¹ (¹Belgium, ²Poland)**

09:10  Heterogeneous ILC responses in severe asthma patients undergoing anti-IL5/5Rα therapy  
**Kyle Mincham, Lola Loewenthal, Garance Meyer, Martina Marfia, Minerva Garcia Martin, Pujan Patel, Clare Lloyd, Robert Snelgrove (United Kingdom)**

09:20  Selective elimination of allergen-specific B cells in house dust mites allergy model  
**Nikola Ralchev, Nikola Kerekov, Nikolina Mihaylova, Diana Hristova, Andrey Tchorbanov (Bulgaria)**

09:30  Discussion
LIFFEY HALL 2 | 08:30-09:45
WORKSHOP 2 - INNATE IMMUNE TRAINING

08:30
WS2.1 Neutrophil-specific targeting of STAT3 impairs tumor progression via the expansion of cytotoxic CD8+ T cells
Irem Ozel¹, Ekaterina Pylaeva¹, Gennadiy Zelinskyy¹, Cornelius Kürten¹, Zvika Granot², Jadwiga Jablonska¹ (Germany, ²Israel)

08:40
WS2.2 Pharmacological activation of free fatty acid receptor 2 in intestinal type 3 innate lymphoid cells ameliorates experimental autoimmune encephalomyelitis
Milica Lazarević¹, Goran Stegnjaić¹, Suzana Stanisavljević¹, Neda Nikolovski¹, Miljana Momčilović¹, Mirjana Dimitrijević¹, Graeme L. Fraser², Dorde Miljkovic¹, Bojan Jevtic¹ (Serbia, ²Belgium)

08:50
WS2.3 Early measles immunization in children before 12 month of age affects specific memory B cell responses
Maaike van der Staak, Hinke ten Hulscher, Jelle de Wit, Rik de Swart, Nynke Rots, Rob van Binnendijk (Netherlands)

09:00
WS2.4 IFN-γ induced trained immunity metabolically reprograms macrophage metabolism and promotes immunity to Mycobacterium tuberculosis
Dearbhla Murphy, Isabella Batten, Sarah Connolly, Grainne Jameson, Donal Cox, Joseph Keane, Sharee Basdeo (Ireland)

09:10
WS2.5 Trained immunity drives neutrophil reprogramming providing protection against pneumococcal sepsis
Charly Gilbert, Tiia Snäkä, Maelick Brochut, Charlotte Theroude, Marta Reverte, Didier Le Roy, Thierry Roger (Switzerland)

09:20
WS2.6 Sepsis-trained macrophages promote anti-tumoral tissue-resident T cells
Alexis Broquet¹, Victor Gourain¹, Thomas Goronflot¹, Virginie Le Mabecque¹, Sihna Debajoti¹, Jacqueline Cédric¹, Mitra Ashayeripanah³, Pierre Martin¹, Marion Davieau¹, Léa Boutin¹, Cécile Poulain¹, Florian P. Martin¹, Cynthia Fourgeux¹, Mélanie Petrier¹, Maeva Guillonneau¹, Laurent Legenti¹, Vincent Ferrieres¹, Fatima Mami-Chouaib¹, Jean François Mosnier¹, Nicolas Mauduit¹, Hamish McWilliam², Jose Villadangos², Pierre Antoine Gourraud¹, Jérémie Poschmann¹, Antoine Roquilly² (France, ²Australia)

09:30 Discussion
WICKLOW HALL 1 | 08:30-09:45
WORKSHOP 3 - IMMUNOMODULATION BY DIET, EXERCISE AND HORMONES

08:30 WS3.1 Sustained immune and metabolic effects of a traditional African diet and fermented beverage versus a Western diet: insights from a short dietary transition study in Kilimanjaro, Tanzania
Godfrey Temba1, Tal Pecht2, Vesla Kullaya1, Nadira Vadaq3, Mary Mosha1, Paolo Lionetti4, Andre van der Ven3, Duccio Cavalieri4, Leo Joosten3, Blandina Mmbaga1, Joachim L. Schultze2, Mihai Netea2,3, Quirijn de Mast3 (Tanzania, Germany, Netherlands, Italy)

08:40 WS3.2 Regulatory T cells require IL-6 receptor alpha signaling to control skeletal muscle function and regeneration
Maike Becker, Sini Susan Joseph, Francisco Garcia-Carrizo, Robby Z. Tom, Daria Opaleva, Isabelle Serr, Matthias H. Tschöp, Tim J. Schulz, Susanna M. Hofmann, Carolin Daniel (Germany)

08:50 WS3.3 Local thyroid hormone action in T cells and its role for protective immunity
Christina Wenzek1, Devon Siemes1, Eva Pastille1, Torben Knuschke1, Sebastian Hönes1, Anita Boelen2, Astrid Westendorf1, Daniel Robert Engel1, Lars Möller1, Dagmar Führer1 (Germany, Netherlands)

09:00 WS3.4 Oleic acid improves clinical features in psoriasis mouse model: effects on immune cells
Beatriz Burger1, Roberta Sagiorato1, Isabela Baccarin1, Hernandez Moura Silva2, Hosana Rodrigues1 (Brazil, USA)

09:10 WS3.5 Hyperandrogenism cause tissue specific alterations of NK cells in a mouse model of polycystic ovary syndrome
Sara Torstensson, Haojiang Lu, Allan Zhao, Sanjiv Risal, Eva Lindgren, Gustav Eriksson, Benedict Chambers, Maria Johansson, Anna Benrick, Elisabet Stener-Victorin (Sweden)

09:20 WS3.6 High glucose diet promotes development of cross-reactive intestinal IgA responses via the TLR4/TNF axis
Marina Bondareva1, Iaroslav Semin1, Natalia Sharanova2, Pawel Durek1, Sergei Nedospasov2, Mir-Farzin Mashreghi2, Andrey Kruglov1 (Germany, Russian Federation)

09:30 Discussion
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LIFFEY HALL 1 | 08:30-09:45
WORKSHOP 4 - GRANULOCYTE DIFFERENTIATION AND FUNCTION

08:30
WS4.1 Single-cell proteomics and transcriptomics resolve the development of eosinophils and the role of IL-5 in their lineage transit amplification
Joseph Jorssen, Glenn Van hulst, Kirena Mollers, Julien Pujol, Georgios Petrellis, Antonio P. Baptista, Sjoerd Schetters, Frédéric Baron, Jo Caers, Bart Lambrecht, Benjamin Dewals, Fabrice Bureau, Christophe J. Desmet (Belgium)

08:40
WS4.2 Neutrophils: not as ready-to-go as we thought?
Cora Schwendele, Andreas Müller (Germany)

08:50
WS4.3 Deciphering phenotype, dynamics, and function of early-life neutrophils using single-cell RNA sequencing and lineage tracing
Julian Hofmann, Laura Lintukorpi, Emmi Lokka, Venla Ojasalo, Sheyla Cisneros Montalvo, Marko Salmi, Pia Rantakari (Finland)

09:00
WS4.4 Neutrophils acquire a peculiar phenotype in psoriatic arthritis patients
Luca Modestino, Manuela Tumminelli, Marialuisa Trocchia, Annagioia Ventrici, Leonardo Cristinziano, Francesco Palestra, Anne Lise Ferrara, Stefania Loffredo, Francesca Wanda Rossi, Amato de Paulis, Maria Rosaria Galdiero (Italy)

09:10
WS4.5 Development of a mast cell depleting antibody for the treatment of mastocytosis
William Worrall¹, Léna Andrieux¹, Nadine Serhan¹, Jasper Kamphuis¹, Alexia Loste¹, Édouard Leveque¹, Heleen Dewitte², Emmanuel Mbida², Emilie Maure, Cyprien Pecalvel¹, Roland Liblau¹, Nicolas Gaudenzio¹, Laurent Reber¹ (¹France, ²Belgium)

09:20
WS4.6 Innovative approaches for neutrophil elastase imaging in vivo using low-molecular-weight NIR fluorescent probes in inflammatory disorders
Galyna Bila¹, Sai Kiran Mavilet², Valentyn Utka², Evgenia Bila³, Manuela Calin¹, Elena Butoi¹, Tamaki Kato², Shyam Pandey², Rostyslav Bilyy³ (¹Romania, ²Japan, ³Ukraine)

09:30 Discussion
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LIFFEY MEETING ROOM 2 | 08:30-09:45
WORKSHOP 5 - DIVERSITY OF ANTIGEN RECOGNITION

08:30
WS5.1 Composite peptides spanning PDGFRα and AAV5 virus trigger autoimmunity in systemic sclerosis patients

Maria Vittoria Napoli1, Gianluca Moroncini1, Silvia Svegliati1, Chiara Paolini1, Antonella Grieco1, Matteo Mozzicafreddo1, Silvia Agarbati1, Manuela Spagnuolo1, Angela Amoresano1, Gabriella Pinto1, Qingxin Chen2, Devis Benfaremo1 Martina Senzacqua1, Nadia Viola1, Mario Galgani1, Antonio La Cava3, Peter Dorfmuller2, Antonio Amoroso1, Antonio Giordano1, Ada Funaro1, Antonio Pezone1, Enrico Vittorio Avvedimento1, Armando Gabrielli1 (1Italy, 2Germany, 3USA)

08:40
WS5.2 Exploring the germline diversity of various macaque B-cell receptor regions

Susan Ott, Giang Le, Nanine de Groot, Marit van der Wiel, Jesse Mittertreiner, Natasja de Groot, Jesse Bruijnesteijn, Ronald Bontrop (Netherlands)

08:50
WS5.3 Dynamics of T cell and B cell receptor repertoires in response to obesity in a murine model of atherosclerosis

Ivana Mikocziova, Lea Mikkola, Senthil Palani, Anne Roivainen, Ana Hernández de Sando, Merja Heinäniemi, Tiit Örd, Minna U. Kaikkonen, Tapio Lönnberg (Finland)

09:00
WS5.4 Broadly neutralizing HIV-1 antibodies have unusually high capacity to bind heme

Robin Lacombe, Valérie Lorin, Maxime Lecerf, Hugo Mouquet, Jordan Dimitrov (France)

09:10
WS5.5 Surrogate light chain-deficient B cells expressing short and hydrophobic H-CDR3 loops escape from the bone marrow and expand in the periphery

Alaitz Aranburu, Erik Engström, Erik Demitz-Helin, Weicheng Ren, Alessandro Camponeschi, Timothy Sundell, Lill Mårtensson (Sweden)

09:20
WS5.6 Recognition of SARS-CoV-2 spike sequence by HLA-E-restricted CD8+ T cells

Valentina Ferrari, Alice Galante, Donatella Galgano, Philipp Nawrath, Daniela Vaqueirinho, Blanca Fernandez, Sandra Jovic, Federico Mele, Antonio Lanzavecchia, Federica Sallusto (Italy)

09:30 Discussion
LIFFEY MEETING ROOM 3 | 08:30-09:45
WORKSHOP 6 - EPIDEMIOLOGY AND IMMUNOGENETICS

08:30
WS6.1
Compromised T cell development in Down syndrome is driven by intrinsic defects in early thymocytes
Annika Boznick, Sarah-Jolan Bremer, Laura Glau, Daniel Biermann, Friederike Thiele, Jonathan May, Kati Tillack, Julian Dresse, Manuela Kolster, Romy Hackbusch, Ida Hüners, Martin Munz, Rainer Kozlik-Feldmann, Michael Hübler, Jörg Siegmar Sachweh, Eva Tolosa, Anna Giers (Germany)

08:40
WS6.2
Multi-omic immunophenotyping to identify predictors of mRNA vaccine responsiveness in immunocompromised individuals
Sam Murray, Georgina Meacham, Sophie Irwin, Vishal Rao, Kyla Dooley, Amelia Heslington, Carl Goodyear, Stefan Siebert, Iain McInnes, Michelle Willcombe, Maria Prendeczki, David Thomas, Amit Patel, Lucinda Billingham, Amanda Kirkham, Pamela Kearns, Jordan Rolt, Barbara Kronsteiner-Dobramysl, Paul Klenerman, Susanna Duncalie, Nicholas Provine, Eleanor Barnes, OCTAVE DUO Study (United Kingdom)

08:50
WS6.3
Celluloeplidemiology - A novel paradigm for quantifying infectious disease dynamics on a population level
My Ha, Anna Postovskaya, Pieter Meysman, Sabrina Van Ierssel, Hans de Reu, Jolien Schippers, Karin Peeters, Hajar Besbassi, Leo Heyndrickx, Betty Willems, Joachim Mariën, Esther Bartholomeus, Koen Vercauterens, Philippe Beutels, Pierre Van Damme, Eva Lion, Erika Vlieghe, Kris Laukens, Samuel Coenen, Reinout Naesens, Kevin Ariën, Benson Ogunjimi (Belgium)

09:00
WS6.4
The multi-omics landscape of systemic inflammation in people living with HIV
Javier Botey-Bataller1,2, Nienke van Unen1, dos Santos Jéssica2, Maartje C.P. Jacobs-Cleophas2, Marc J.T. Blaauw2, Wilhelm A.J.W. Vos2, Louise van Eekeren2, Albert Groenendijk2, Xun Jiang1, Manoj Gupta1, Nhan Nguyen1, Cheng-Jian Xu1, Leo Joosten2, Mihai Neeta2, Andre van der Ven2, Yang Li1,2 (1Germany, 2Netherlands)

09:10
WS6.5
Modeling gene-environment interactions in Parkinson’s disease:
Helicobacter pylori infection of pink1-/- mice induces autoreactive cd8 t/ regulatory t cell disbalance associated with motor and cognitive dysfunction
Alexandra Kazanova, Jacqueline Sung, Christina Gavino, Hicham Bessaiah, Nathalia Luisa Oliveira, Lindsay Burns, Jessica Pei, Morgane Brouillard-Galipeau, Willemien Miller, Sherilyn Junelle Recinto, Moustafa Nouh Elemeery, Lei Zhu, Adam MacDonald, Lucia Guerra, Joel Lanoix, Pierre Thibault, Heidi McBride, Michel Desjardins, Jo Anne Stratton, Nathalie Labrecque, Samantha Gruenheid (Canada)

09:20
WS6.6
Comparison of immune variability between healthy African and European adults reveals broad similarities and specific differences
Etienne Villain1, Alba Llibre1, Fatoumata Diene Sarr1, Babacar Diouf1, Aurelie Bisiaux1, Pedro Goncalves1, Bruno Charbit1, Vincent Rouilly1, Celine Posseme1, Tom Dott1, Cécile Alano1, Cécile Artaud1, Mamadou Diop2, Milena Hasan1, Muriel Vray2, Amadou Sall2, Cheikh Loucoubar2, Lluis Quintana-Murci1, James Di Santo1, Fabien Taieb1, Aissatou Toure1, Ronald Perraut1, Darragh Duffy1 (1France, 2Senegal)

09:30
Discussion
ECOCEM ROOM | 08:30-09:45
WORKSHOP 7 - PARASITE AND BACTERIAL IMMUNOLOGY

08:30 WS7.1 Ruxolitinib restores disease tolerance in malaria-infected glucocorticoid receptor knockout mice by preventing lethal hypoglycemia
Fran Prenen¹, Leen Vandermosten¹, Sofie Knoops¹, Emilie Pollenus¹, Hendrik Possemiers¹, Pauline Dagneau de Richécour¹, Giorgio Caratti², Christopher Cawthorne¹, Sabine Vettorazzi², Christophe Deroose¹, Uwe Himmelreich¹, Jan Tuckerman², Philippe Van den Steen¹ (¹Belgium, ²Germany)

08:40 WS7.2 Microbial infections trigger tissue mechano-responses to initiate innate immunity
Giulia Stucchi, Laura Marongiu, Giuseppe Rocca, Marco Galli, Anna Celant, Stefano Cozzi, Francesca Mingozzi, Alessandra Martorana, Alessandra Polissi, Ivan Orlandi, Marina Vai, Metello Enzo Innocenti, Francesca Granucci (Italy)

08:50 WS7.3 Spatial multi-omics identifies acyltransferase activity associated with granulomas
Shoumit Dey¹, Jian-Hua Cao², Benjamin Balluff², Nidhi Sharma Dey¹, Peter O’Toole¹, Grant Calder¹, Sally James¹, Lesley Gilbert¹, Ron Heeren², Paul Kaye¹ (¹United Kingdom, ²Netherlands)

09:00 WS7.4 Differential antigen patterns during cyst degeneration in porcine neurocysticercosis
Luz Toribio¹², Lizziee Tello², Javier A. Bustos², Gianfranco Arroyo², Manuela Verastegui², Hector H. Garcia²³ (¹United Kingdom, ²Peru, ³USA)

09:10 WS7.5 A vaccination strategy utilizing exosomes induces protective immune responses in an experimental model of Leishmania infantum infection in BALB/c mice
Antonia Efstathiou, Maria Agallou, Dimitra K. Toubanaki, Evdokia Karagouni (Greece)

09:20 WS7.6 Leishmania mexicana-infected Lutzomyia longipalpis sand flies induce inflammasome derived IL-1β in C57/BL6 mice
Somaditya Dey¹², Eva Iniguez¹, Claudio Meneses¹, Jesus Valenzuela¹, Shaden Kamhawi¹ (¹USA, ²India)

09:30 Discussion
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LIFFEY B | 10:30-11:45
SYMPOSIUM - CANCER IMMUNOTHERAPY
Chairs: Enrico Lugli (Italy), Vera Martins (Portugal)

10:30 Harnessing tissue immunity for enhanced immunotherapy
Ana Luisa Correia (Portugal)

10:50 T cell antigens for cancer
Andrew Sewell (United Kingdom)

11:10 Immune checkpoint blockade
Padmanee Sharma (USA)

11:30 Discussion

LIFFEY A | 10:30-11:45
SYMPOSIUM - FUTURE IMMUNOTHERAPY AND VACCINE APPROACHES
Chairs: Stefania P. Bjarnarson (Iceland), Ihsan Gursel (Turkey)

10:30 Advances in attenuated viral vaccines
Volker Thiel (Switzerland)

10:50 Intracellular antibodies to block protein-protein interactions and antibody paratope-derived compounds for targeting leukaemia
Terence Rabbitts (United Kingdom)

11:10 Engineered tregs as anti-inflammatory therapeutics
Markus Feuerer (Germany)

11:30 Discussion
WICKLOW HALL 2 | 10:30-11:45
WORKSHOP 8 - RESPIRATORY IMMUNOLOGY

10:30  Profiling maternal immune activation-induced alterations and training effects in offspring’s immune cell compartments
       Walaa Jradi, Fabien Prodjinotho, Clarissa Prazeres da Costa (Germany)

10:40  The influenza virus hemagglutinin (HA): a novel functional ligand for the immunosuppressive receptor LAG-3
       Dina Khateeb¹, Ardeshir Ariana², Marceline Cote², Yotam Bar-Onv (¹Israel, ²Canada)

10:50  Role of NK cell circadian clock in Influenza pathogenesis
       Shaon Sengupta, Oindrila Paul, Mahendra Padmini, Kaitlyn Forrest, James Garifallou (USA)

11:00  Deletion of dipeptidyl peptidase 3 in mice unleashes protective antibacterial immunity against Klebsiella pneumoniae
       Amanda Facoetti, Luca Lambroia, Elena Fontana, Dario Strina, Maria Lucia Schiavone, Federico Nicchiotti, Ciro Menale, Cecilia Garlanda, Cristina Sobacchi
       Veronica Marrella, Barbara Cassani (Italy)

11:10  Mast cell granules serve as endogenous C-type lectin receptor ligands
       skewing dendritic cell function towards type II immunity
       Johanna Kotrba, Sascha Kahlfuß, Bernd Lepenies, Anne Dudeck¹ (Germany)

11:20  Molecular regulation of innate lymphoid cell type 2 in inflammatory lung disease
       Wen Jie Yeoh, Kristyna Hlavacková, Philippe Krebs (Switzerland)

11:30  Discussion
LIFFEY HALL 2 | 10:30-11:45
WORKSHOP 9 - NEUROINFLAMMATION I

10:30
WS9.1
IgA production decrease is associated with B cell differentiation and proliferation defects in multiple sclerosis
Louise Le Gal, Boussamet Léo, Morille Jeremy, Shah Sita, Mathé Camille, Rodriguez Stéphane, Chesneau Mélanie, Mandon Marion, Garcia Alexandra, Amé-Thomas Patricia, Tarte Karin, Dugast Emilie, Nicot Arnaud, Sophie Brouard, Laplaud David-Axel, Michel Laure, Berthelot Laureline (France)

10:40
WS9.2
6-Formylindolo(3,2-b)carbazole ameliorates Graft-versus-host disease of the central nervous system via arylhydrocarbon receptor/NF-κB pathway in microglia
Alexander Johannes Zähringer¹, Sangya Chatterjee¹, Janaki Manoja Vinnakota¹, Daniel Erny¹, Rachael Claire Adams¹², Jana Gawron¹, Marlene Langenbach¹, Lennard Schwöbel¹, Valentin Wenger¹, Dominik Schmidt¹, Bodo Grimbacher¹, Marco Prinz¹, Robert Zeiser¹ (1Germany, 2Australia)

10:50
WS9.3
Long-term use of rituximab increases T cell count in MS patients
Gunnar Sigfus Bjornsson, Hildur Sigurgrimsdottir, Solrun Melkorka Maggadottir, Berglind Osk Einarsdottir, Olafur Arni Sveinsson, Haukur Hjaltason, Sigurgeir Thora Sigurdardottir, Bjorn Runar Ludviksson, Siggeir Fannar Brynjolfsson (Iceland)

11:00
WS9.4
Targeting pyruvate kinase M2 to limit T cell pathogenicity in multiple sclerosis
Alyssa Schnabl, Elena Ellmeier, Anika Stracke, Katharina Seifried, Cansu Tafrali, Rina Demjaha, Sebastian Wurth, Michael Khalil, Stefano Angiari (Austria)

11:10
WS9.5
Natalizumab treatment induces proinflammatory CD4 T cells preferentially in the integrin β7+ compartment
Iris Hasantari, Mélanie Nguyen Ky, Adrien Duran, Agnes Bru, Mathilde Deloire, Bruno Brochet, Aurélie Ruet³, Nathalie Schmitt (France)

11:20
WS9.6
Primed monocytes in gamma-herpesvirus-induced EAE exacerbation
Annet van de Waterweg Berends, Xiang Du, Justine Javaux, Remy Sandor, Malyvahn Pathammavong, Bieke Broux, Bénédicte Machiels, Niels Hellings, Laurent Gillet (Belgium)

11:30
Discussion
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WICKLOW HALL 1 | 10:30-11:45
WORKSHOP 10 - BACTERIAL AND VIRAL IMMUNITY

10:30 WS10.1 A comprehensive 31-months longitudinal study on SARS-CoV-2 seroconversion, reinfection, and neutralization spanning several variant waves and vaccination campaigns
Bianca Schulte, Enrico Richter, Antonia Buening, Maximilian Baum, Annika Breuer, Jasmin Zorn, Julia Koenig, Melanie Geiger, Monika Eschbach-Bludau, Johanna Heuser, Dominik Zoelzer, Marek Korencak, Ronja Hollstein, Eva Beins, Dorian Emmert, Souhaib Aldabagh, Anna Maria Eis-Hübinger, Hendrik Streeck (Germany)

10:40 WS10.2 SUV39H1 controls the differentiation of CD8+ tissue resident memory T cell precursors
Guadalupe Suarez, Sandrine Heurtebise-Chrétien, Pierre-Emmanuelle Bonte, Diego Sebastian Amigorena (France)

10:50 WS10.3 Latent cytomegalovirus upon intranasal infection provides immune protection against COVID in experimentally infected mice
Upasana Kulkarni1, Henning Jacobsen1, Sarah Leist2, Tatjana Lüddecke1, Ralph Baric2, Luka Cicin-Sain1 (1Germany, 2USA)

11:00 WS10.4 Bifidobacterium shapes antimicrobial T-cell responses during infancy and adulthood
Katrin Vogel, Aditya Arra, Holger Lingel, Dirk Bretschneider, Florian Prätsch, Denny Schanze, Martin Zener, Dunja Bruder, Robert Geffers, Thomas Hachenberg, Christoph Arens, Monika Brunner-Weinzierl (Germany)

11:10 WS10.5 Cross reactive responses between filovirus species amongst a cohort of Ebolavirus Zaire survivors in Guinea, West Africa
Yasmin Jiwa1, Joseph Akoibore1, Tom Tipton1, Francesca Donnellan1, Grace Hood1, Simon Drape1, Kim Fornace2, Miles Carroll1 (1United Kingdom, 2Singapore)

11:20 WS10.6 Investigating the effects of variability of Streptococcus galactiae isolates on macrophage immune response and pathogenesis
Larisa Janzic, Lucija Levstek, Andreja Natasa Kopitar, Alojz Ihan (Slovenia)

11:30 Discussion
LIFFEY HALL 1 | 10:30-11:45
WORKSHOP 11 - INNATE AND ADAPTIVE IMMUNE CELLS IN INFLAMMATION

10:30
WS11.1
CXCR4 minor pocket ligands inhibit immune response by selectively blocking TLR7/8 mediated phosphorylation of NFκB
**Birgit Caspar, Séverine Grinberg, Ivana Stoilova, Nassima Bekaddour, Dominique Cathelin, Jean-Philippe Herbeuval** *(France)*

10:40
WS11.2
Investigation into obesity related defects in MAIT cells - is glutamine the missing link?
**Nidhi Kedia-Mehta¹, Linda Sinclair², Andrew Hogan¹** *(Ireland, United Kingdom)*

10:50
WS11.3
Eosinophil peroxidase induces a pro-resolving phenotype in macrophages
**Mohammed Safhi, Gerhard Krönke, Georg Schett, Aline Bozec, Darja Andreev** *(Germany)*

11:00
WS11.4
Endogenous secretory leukocyte protease inhibitor contributes to regulation of inflammatory responses in peritoneal macrophages by modulating matrix metalloproteinase-9 production
**Mariia Tyshchenko, Natalia Pocaluń, Patrycja Kwiecińska, Joanna Cichy, Mieszko Wilk, Ewa Oleszycka** *(Poland)*

11:10
WS11.5
The involvement of plasmacytoid dendritic cells and endoplasmic reticulum stress in systemic sclerosis-associated fibrosis
**Beatriz Ferreira¹, Daniela Barros², Fátima Leite-Pinheiro¹, Andreia Mendes¹, Adrienne Paton³, James Paton³, Iola Duarte², Philippe Pierre¹,², Catarina Almeida¹** *(Portugal, France, Australia)*

11:20
WS11.6
Cytokine synergy and increased T cell polyfunctionality drives the aggressive synovial fibroblast phenotype in down syndrome associated arthritis
**Adam Dignam, Serena Foo, Mary Canavan, Viviana Marzaioli, Achilleas Floudas, Ronan Mullan, Charlene Foley, Emma MacDermott, Douglas Veale, Orla Killeen, Ursula Fearon** *(Ireland)*

11:30 Discussion
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LIFFEY MEETING ROOM 2 | 10:30-11:45
WORKSHOP 12 - IMMUNE REGULATION IN DISEASE

10:30
WS12.1
Halting type 1 diabetes progression: use of regulatory T cell-derived extracellular vesicles
Clorinda Fusco\textsuperscript{1}, Kristyna Ruggiero\textsuperscript{1}, Ilaria Spatocco\textsuperscript{1}, Giorgia Mele\textsuperscript{1}, Claudio Russo\textsuperscript{1}, Giusy De Rosa\textsuperscript{1}, Alessandra Colamatteo\textsuperscript{1}, Francesca Di Candia\textsuperscript{1}, Enza Mozzillo\textsuperscript{1}, Claudio Procaccini\textsuperscript{1}, Giuseppe Matarese\textsuperscript{1}, Mario Galgani\textsuperscript{1}, Paola de Candia \textsuperscript{(Italy)}

10:40
WS12.2
Unveiling CD300e as a pivotal immune checkpoint in colorectal cancer
Annica Barizza, Stefania Vassallo, Marta Tromboni, Sofia Giacometti, Sara Coletta, Gaia Codolo \textsuperscript{(Italy)}

10:50
WS12.3
Elucidating the interaction of CD96 and its ligand CD155 in T cells
Diana Shinko, Meryl Attrill, Rosemarie Ford, Maja Kos, Heather Cross, Rafter Wu, Claudia Hinze, Anne M Pesenacker \textsuperscript{(United Kingdom)}

11:00
WS12.4
Regulatory T-cells in multiple sclerosis are activated by Epstein-Barr virus and produce IL-10 in the central nervous system
Nadia Pulvirenti, Camilla Righetti, Francesca Clemente, Barbara Serafini, Chiara Vasco, Maria Gerosa, Daniela Galimberti, Francesca Aloisi, Sergio Abrignani, Elio Scarpini, Jens Geginat \textsuperscript{(Italy)}

11:10
WS12.5
Regulatory functions of redox processes during host-pathogen interactions in tuberculosis
Benthe Beu\textsuperscript{1}, Tobias Dallenga\textsuperscript{1}, Ilana Braunstein\textsuperscript{2}, Moran Benhar\textsuperscript{2}, Ulrich E. Schaible\textsuperscript{1} \textsuperscript{(Germany, \textsuperscript{2}Israel)}

11:20
WS12.6
Disentangling the heterogeneity and differentiation process of CD11c+ B cells
Alan Courey-Ghaouzi\textsuperscript{1}, Linn Kleberg\textsuperscript{1}, Maximilian Julius Lautenbach\textsuperscript{1}, Girish Malagi\textsuperscript{1}, Zaynab Mousavian\textsuperscript{1}, Ganesh Phad\textsuperscript{2}, Mattias Forsell\textsuperscript{1}, Anna Färnert\textsuperscript{1}, Christopher Sundling \textsuperscript{(Sweden, \textsuperscript{2}Switzerland)}

11:30
Discussion
MONDAY, 2 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 10:30-11:45
WORKSHOP 13 - GASTROINTESTINAL IMMUNOLOGY

10:30
WS13.1 HIV-1 exploits LBPA-dependent intraepithelial vesicular trafficking pathway for persistent infection of human intestinal mucosa
Anusca Rader, Alexandra Cloherty, Kharishma Patel, Renee Schreurs, Carla Ribeiro (Netherlands)

10:40
WS13.2 Investigating the impact of Parkinson’s Disease-associated genes on intestinal homeostasis
Jessica Pei, Sherilyn Junelle Recinto, Alexandra Kazanova, Lindsay Burns, Adam MacDonald, Christina Gavino, Michel Desjardins, Jo Anne Stratton, Samantha Gruenheid (Canada)

10:50
WS13.3 Exploring macrophage heterogeneity in Crohn’s disease
Monika Mykhaylyshyn1, Thomas Laurent1, Aurélie Joussaume1, Gaëlle Bériou1, Nicolas Chapelle1, Lucas Brusselle1, Camille Lécouroux1, Laurence Delbos1, Jérémie Poschmann1, Cynthia Fourgeux1, Arnaud Boureille1, Catherine Le Berre1, Caroline Trang1, Théo Soudé1, Juliette Podevin1, Jean-François Mosnier1, Cécile Girard1, Miriam Merad2, Samarth Hedge2, Clotilde Hennequin2, Jessica Le Berichel2, Saurabh Mehandr2, Pablo Canales-Herrerias2, Ephraim Kenigsberg2, Jérôme Martin1 (France, USA)

11:00
WS13.4 IL4 prevents the gluten-induced inflammation in the gut mucosa of children with potential celiac disease
Ilaria Mottola, Serena Vitale, Roberta Esposito, Mariantonia Maglio, Renata Auricchio, Riccardo Troncone, Carmen Gianfrani (Italy)

11:10
WS13.5 BAMBI, a regulator of intestinal epithelial cell permeability and apoptosis, controls colitis and colon cancer development
Paula Perez Adrián, Marta Muñoz, Vincenzo Cappitelli, Thais M. Gil, Mª Luisa Cagigal, Jose Andrés Vazquez, Juan Ignacio Raba-Díez, Maria Luisa del Rio, Jose-Ignacio Rodriguez-Barbosa, Jesus Merino, Victoria Casado Medrano, Ramón Merino (Spain)

11:20
WS13.6 T cell responses to dietary antigens
Anna Rudnitsky, Ranit Kedmi (Israel)

11:30 Discussion
ECOCEM ROOM | 10:30-11:45
WORKSHOP 14 - TRANSPLANTATION IMMUNOLOGY

10:30 CXCR4 blockade reduces the severity of murine heart allograft rejection by plasmacytoid dendritic cell-mediated immune regulation
Jian Fu1,2, Christian H.K. Lehmann1, Xinning Wang1,2, Ida Allabauer1, Benjamin Wilde1, Lukas Amon2, Andreas Kribben1, Joachim Wölfle1, Diana Dudziak1, Oliver Witzke1, Andre Höning1 (*Germany, 2China)

10:40 Translation of tacrolimus resistant antiviral T cell products: In depth- efficacy evaluation and human based safety assessment

10:50 Donor HLA-DQ landscape predicts the likelihood of controlling BK polyoma virus replication after kidney transplantation
Mathieu Chevalier1, Vincent Allain1,2, Julien Gras1, Juliette Villemonteix1, Gillian Divard1, Linda Feghouli1, Constance Delaugerre1, Jean-Michel Molina1, Jean-Luc Taupin1, Marie-Noelle Peraldi1, Cyrille Feray1, Sophie Caillat-Zucman1 (*France, 2USA)

11:00 Immunosuppressive therapy modifies anti-Spike IgG subclasses distribution after 4 doses of mRNA vaccination in a cohort of kidney transplant recipients

11:10 Effects of corticosteroids therapy on immune reconstitution and function upon hematopoietic stem cell transplantation in cancer patients
Silvia Santopolo1, Cecilia Ciancaglini1, Han-Yu Sihi2, Paola Vaccia2, Lorenzo Moretta1, Linda Quatrini1 (*Italy, 2USA)

11:20 Tissue-resident lymphocyte subsets are associated with poor glucocorticoid response in acute gastrointestinal graft-versus-host disease
Johanna Strobl, Lukas Gaksch, Sandra Haingartner, Ariane Aigelsreiter, Peter Neumeister, Alexander Deutsch, Georg Stary, Hildegard Greinix (*Austria)

11:30 Discussion
MONDAY, 2 SEPTEMBER 2024

AUDITORIUM | 11:55-12:40
KEYNOTE LECTURE 2
Chairs: Güher Saruhan Direskeneli (Turkey), Bojan Polic (Croatia)

11:55 Metabolic and neural regulation of immunity and cancer
Tak Mak (Canada)

12:30 Discussion

AUDITORIUM | 14:15-15:30
SYMPOSIUM - ACTERIA SYMPOSIUM: NOT SO STERILE INFLAMMATION, AFTER ALL
Chairs: Eduardo Bonavita (Italy), Anne Hosmalin (France)

14:15 Liver macrophages between lipids and stellate cells
Charlotte Scott (Belgium)

14:35 Neuron immune interactions in allergy
Nicolas Gaudenzio (France)

14:55 Regulation of monocyte-to-macrophage trajectories in the healthy and diseased lung
Thomas Marichal (Belgium)

15:15 Discussion

LIFFEY B | 14:15-15:30
SYMPOSIUM - STROMAL CELLS IN IMMUNOLOGY
Chairs: Marion Espéli (France), Aideen Ryan (Ireland)

14:15 Reticular cell immune cell crosstalk
Burkhard Ludewig (Switzerland)

14:35 Strategies to use lymphatic vasculature to tune immune function
Amanda Lund (USA)

14:55 B cell expansion hinders the stroma-epithelium regenerative cross talk during mucosal healing
Eduardo Villablanca (Sweden)

15:15 Discussion
LIFFEY A | 14:15-15:30
IUIS SYMPOSIUM - AGING AND THE IMMUNE SYSTEM
Chair: Rita Carsetti (Italy)

- 14:15 Infections and vaccines: impact on immune aging
  Mihai Netea (Netherlands)

- 14:35 Primary and booster vaccination in elderly and frail individuals
  Ursula Wiedermann (Austria)

- 14:55 One century of immunity, between inflammaging and hyper-long memory
  Andrea Cossarizza (Italy)

- 15:15 Discussion
**MONDAY, 2 SEPTEMBER 2024**

**WICKLOW HALL 2 | 14:15-15:30**

**WORKSHOP 15 - T CELLS IN AUTOIMMUNITY**

<table>
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<th>Time</th>
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<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>14:15</td>
<td>WS15.1</td>
<td>Autoantigen-specific CD4 T cells acquire an exhausted phenotype and persist in patients with antigen-specific autoimmune disease</td>
<td>Carina Saggau¹, Petra Bacher¹, Daniela Esser¹, Mahdi Rasa¹, Andreas Hutloff¹, Sarah-Sophie Schacht¹, Justina Dargvaniene¹, Johannes Hartl¹, Patrick Schindler¹, Julia K Polansky¹, Mingxing Yang¹, Reza Naghavian², Marek Wieczorek¹, Daniel Berger¹, Lea Henschel¹, Guido Heine¹, Enno Schmidt¹, Dirk Busch¹, Simon Fillatreau³, Klaus-Peter Wandinger¹, Kilian Schober¹, Roland Martin², Friedemann Paul¹, Frank Leypoldt¹, Alexander Scheffold¹ ¹(Germany, ²Switzerland, ³France)</td>
</tr>
<tr>
<td>14:25</td>
<td>WS15.2</td>
<td>The tissue-resident memory Th17 (TRM17) cells, the predominant source of interleukin (IL)-17 in inflammatory arthritis, is largely IL-23 independent in their effector function and epigenetically regulated by Bromodomain Containing 1 (BRD1)</td>
<td>Feng Liu, Rachel Anscombe, Hui Shi, paul Bowness, liye Chen ¹(United Kingdom)</td>
</tr>
<tr>
<td>14:35</td>
<td>WS15.3</td>
<td>T cell mediated immune responses in primary intestinal tissue slices from IBD patients ex vivo</td>
<td>Klaudia Maria Grieger, Valerie Beneke, Vanessa Neuhaus, Susann Dehmel, Ulf Kulik, Heiko Aselmann, Benjamin Gundert, Armin Braun, Christina Hesse, Katherina Sewald (Germany)</td>
</tr>
<tr>
<td>14:45</td>
<td>WS15.4</td>
<td>A novel humanized mouse model to study rheumatoid arthritis associated anti-citrulline T cell reactivity</td>
<td>Marlene Schülein¹, Diego Velasques Pulgarin¹, Aaron Winkler², Lars Klareskog¹, Alexander Espinosa¹, Vivianne Malmström¹, Bruno Raposo¹ ¹(Sweden, ²USA)</td>
</tr>
<tr>
<td>14:55</td>
<td>WS15.5</td>
<td>CCL5/RANTES in the pathogenesis of systemic lupus erythematosus (SLE)</td>
<td>Xiaolin Cao, Niels van Heusden, Ellen Kaan, Maarten Limper, Marianne Boes (Netherlands)</td>
</tr>
<tr>
<td>15:05</td>
<td>WS15.6</td>
<td>Unravelling pathological mechanisms of Addison's disease using a novel animal model</td>
<td>Ales Neuwirth, Arina Andreyeva, Juraj Michálik, Ondrej Stepanek (Czech Republic)</td>
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<tr>
<td>15:15</td>
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<td>Discussion</td>
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</table>
LIFEY HALL 2 | 14:15-15:30
WORKSHOP 16 - B CELLS: DEVELOPMENT AND FUNCTION

14:15 WS16.1 Systems level analysis of B-cell development across aging identifies BDNF as a driver for B-cell generation in the bone marrow
Neta Nevo, Ayelet Alpert, Tim J. Cooper, Neta Milman, Doron Melamed, Shai S. Shen - Orr (Israel)

14:25 WS16.2 The RNA binding protein HuR is required for self-replenishment and preservation of the restricted BCR repertoire of innate B1 cells
Dunja Capitan Sobrino, Maïlys Mouysset, Manuel Diaz-Munoz (France)

14:35 WS16.3 Intracellular trafficking receptor SorLA is required for BCR uptake and trafficking, regulating B cell-mediated immune responses in vivo
Adam McShane, Melibea Berzosa, Pratiti Nanda, Fiona Hills, Dessi Malinova (United Kingdom)

14:45 WS16.4 Active inhibition of chemokine-mediated migration impacts tumour-lymph node crosstalk in TNBC
Victoire Boulat, Ellie Alberts, Carin Brundin, Dinis Pedro Calado, Anita Grigoriadis (United Kingdom)

14:55 WS16.5 Human B-cell development at the single-cell level
Timothy Sundell, Alessandro Camponeschi, Alaitz Aranburu, Inger Gjertsson, Lill Mårtensson (Sweden)

15:05 WS16.6 New mode of B-cell activation through extracellular release of native antigen by dendritic cells
Klara Cik, Louis Vasselin, Morgane Thépaut, Antoine Robert, Paul Courrieu, Florence Niedergang, Fatah Ouaaz (France)

15:15 Discussion
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WICKLOW HALL 1 | 14:15-15:30
WORKSHOP 17 - NEUROINFLAMMATION II

14:15
WS17.1
Meningeal γδ T cells and blood-brain barrier disruption: plications for neonatal Group B Streptococcus meningitis
Inês Lorga, Ana Magalhães, Ana Teixeira, Manuel Vilanova, Julie Ribot, Elva Bonifácio Andrade (Portugal)

14:25
WS17.2
The interplay between inflammation and oxidative stress supports autistic-related behaviors in two mouse models of autism spectrum disorders
Luca Pangrazzi¹, Enrica Cerilli², Luigi Balasco², Caterina Tobia², Enrico Domenici², Birgit Weinberger¹, Yuri Bozzi² (¹Austria, ²Italy)

14:35
WS17.3
Mapping midbrain immune response and potential gateway function of the choroid plexus in chronic gut inflammation
Rebecca Katharina Masanetz¹, Mark Dedden¹, Iris Stolzer¹, Claudia Günther¹, Mathias Linnerbauer¹, Veit Rothhammer¹, Wei Xiang¹, Pavel Kielkowski¹, Johannes Schlachetzki², Sebastian Zundler¹, Jürgen Winkler¹, Patrick Süß¹ (¹Germany, ²USA)

14:45
WS17.4
Effects of microbial infection on the blood-brain barrier - high-dimensional tissue profiling using imaging mass cytometry
Marta Kaminska¹, Anne Klapper², Holger Cynis², Piotr Mydel¹ (¹Norway, ²Germany)

14:55
WS17.5
Opposite innate immune signatures in Varicella Zoster Virus and Sendai Virus infected human induced pluripotent stem cell derived neurospheroids
Jonas Govaerts, Elise Van Breedam, Claudio D’Incal, Sarah De Beuckeleer, Julia Di Stefano, Siebe Van Calster, Tamariche Buyele-Huybrecht, Marlies Boeren, Marielle Lebrun, Catherine Sadzot-Delvaux, Winnok De Vos, Johan Van Weyenbergh, Wim Vanden Berghe, Benson Ogunjimi, Peter Delputte, Peter Ponsaerts (Belgium)

15:05
WS17.6
Neuroimmune responses to intranasal poly(I:C) are primed by time of day
Gregory Pearson, Brennan Falcy, Jiexin Wang, Nathan Santos, Stephanie Gottwals, Giancarlo Denaro, Said Akli, Illia Karatsoreos (USA)

15:15
Discussion
MONDAY, 2 SEPTEMBER 2024

LIFFEY HALL 1 | 14:15-15:30
WORKSHOP 18 - IMMUNE DEFICIENCIES AND IMMUNE DYSFUNCTION

**14:15**
**WS18.1**
Autoinflammatory patients with Golgi-trapped CDC42 exhibit intracellular trafficking defects leading to STING hyperactivation
Alberto Iannuzzo¹, Selket Delafontaine², Rana El Masri³, Rachida Taccine¹, Giusi Prencipe⁵, Masahiko Nishitani-Isa⁴, Rogier T.A. van Wijck⁵, Farzana Bhuyan⁶, Adriana A. De Jesus Rasheed⁷, Simona Coppola⁵, Paul L.A. van Daele⁸, Antonella Insalaco¹, Raphaela Goldbach-Mansky⁶, Takahiro Yasumi⁴, Marco Tartaglia³, Isabelle Meyts², Jerome Delon¹ (¹France, ²Belgium, ³Italy, ⁴Japan, ⁵Netherlands, ⁶USA)

**14:25**
**WS18.2**
NLRC4 mosaicism as the cause of a severe, early-onset autoinflammatory disease
Daniel Lorca-Arce¹, Walaa Shoman², Anna Mensa¹, Susana Plaza¹, Virginia Fabregat¹, Juan Francisco Luchoro¹, Jordi Yague¹, Yasmine El Chazli², Juan Ignacio Arostegui¹ (¹Spain, ²Egypt)

**14:35**
**WS18.3**
Functional analysis of inflammasome mutations in the inflammatory skin disease hidradenitis suppurativa
Ashish Neve¹, Daniel Johnston¹, Desmond Tobin¹, Lynn Petukhova² (¹Ireland, ²USA)

**14:45**
**WS18.4**
Constitutive phosphorylation of STAT3 hallmarks different subsets of atypical T-bet-expressing B cells in immune mediated disorders
Francesca La Gualana, Giulia Garzi, Begi Petriti, Matteo D’Ambrosi, Francesca Maiorca, Alessandra Pinzon Grimaldos, Silvia Piconese, Massimo Fiorilli, Isabella Quínti, Cinzia Milito, Marcella Visentini (Italy)

**14:55**
**WS18.5**
Deep immune cell profiling of patients with defects in the leptin-melanocortin signaling pathway
Julia Hecker, Lisa Ruck, Désirée Kunkel, Britta Siegmund, Peter Kühnen, Carl Weidinger (Germany)

**15:05**
**WS18.6**
Xpr1 deficiency dysregulates CD4+ T-cell responses by impaired calcium signalling and increased mTOR activation
Marion Mengel, Benita Kröger, Mandy Malle, Timur Alexander Yorgan, Björn-Philipp Diercks, Reiner Mailer (Germany)

**15:15**
Discussion
**MONDAY, 2 SEPTEMBER 2024**

**LIFFEY MEETING ROOM 2 | 14:15-15:30**

**WORKSHOP 19 - PATTERN RECOGNITION RECEPTORS AND INNERNATE IMMUNITY**

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<td>14:15</td>
<td>AHR spying on bacterial communication and quorum during infection</td>
<td>Pedro Moura-Alves (Portugal)</td>
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<td>14:35</td>
<td>NLRP3 is a thermosensor that is negatively regulated by high temperature</td>
<td>Wei Wang¹, Chloe McKee¹, Junya Zhang², Damien Bertheloot³, Marcia Munoz⁴, Amelia Stennett², Shangze Xu², Melanie Cranston⁴, Bernardo Franklin³, Michael Rogers⁴, Agnieszka Bronowska², Rebecca Coll¹ (Ireland, United Kingdom, Germany, Australia)</td>
</tr>
<tr>
<td>14:45</td>
<td>Toll-like receptor 3 (TLR3) Leu412Phe (L412F): a candidate polymorphism in lung microbiome dysregulation and acute exacerbation in idiopathic pulmonary fibrosis patients</td>
<td>Aoife McElroy¹, Rachel Invernizzi², Andrew O’Neill³, Andrew Bowie¹, Padraic Fallon¹, Toby M. Maher³, Cory M. Hogaboam³, Philip Molyneaux², Nik Hirani², Seamas Donnelly¹, Michelle E. Armstrong¹ (Ireland, United Kingdom, USA)</td>
</tr>
<tr>
<td>14:55</td>
<td>SARM1 regulates pro-IL-1β expression in monocytes by an NADase-dependent mechanism</td>
<td>Ryoichi Sugisawa¹, Masahiko Honda¹, Suman Dash¹, Akiyoshi Komuro¹, Takeshi Ueda¹, Andrew Bowie², Hitoshi Okada¹ (Japan, Ireland)</td>
</tr>
<tr>
<td>15:05</td>
<td>MicroRNAs released by UV-treated keratinocytes activate pDCs viaTLR7: a model mechanism of type I interferon triggering in psoriasis</td>
<td>Valentina Salvi, Carolina Gaudenzi, Barbara Mariotti, Paolo Bergese, Silvano Sozzani, Flavia Bazzoni, Daniela Bosisio (Italy)</td>
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MONDAY, 2 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 14:15-15:30
WORKSHOP 20 - MECHANISMS OF ANTIGEN PRESENTATION

14:15  Non-canonical proteome derived from transposable elements is a source of functional protein isoforms and cancer neoantigens
Yago Arribas¹, Maxime Rotival¹, Blandine Baudon¹, Pierre-Emmanuel Bonté⁴, Guadalupe Suarez¹, Marianne Burbage¹, Benjamin Sadacca¹, Christel Goudot¹, Joshua J. Waterfall¹, Montserrat Carrascal², Lluis Quintana-Murci¹, Antonela Merlotti¹, Diego Sebastian Amigorena¹ (France, ²Spain)

14:25  Ribosome profiling and immunopeptidomics reveal tens of novel conserved HIV-1 open reading frames encoding T cell antigens
Arnaud Moris¹, Lisa Bertrand¹, Annika Nelde², Isabelle Hatin¹, Emiliano Ricci¹, Juliane S. Walz², Olivier Namy¹ (France, ²Germany)

14:35  Engagement of TNF superfamily regulates the formation of the dendritic cell immunological synapse
Camille Clamagirand, Jérémie Rossy (Switzerland)

14:45  Interferon-α promotes neo-antigen formation and preferential HLA-B-restricted antigen presentation in pancreatic β-cells
Fatoumata Samassa¹, Alexia Carré¹, Zhicheng Zhou¹, Javier Perez Hernandez¹, Christiana Lekka², Anthony Manganaro³, Masaya Oshima¹, Hanqing Liao², Robert Parker², Barbara Brandao¹, Decio Eizirik⁴, Orlando Burgos Morales¹, Amanda Anderson³, Laurie Landry³, Farah Kobaisi¹, Sylvaine You¹, Maki Nakayama³, Sarah Richardson², Roberto Mallone¹,³ (France, ²United Kingdom, ³USA, ⁴Belgium)

14:55  scATAC-seq in epithelial cells of human and mouse thymic medulla reveals a conserved HIVEP3-dependent program sustaining their maturation and the control of self-antigen expression
Sümeyye Yayilkan, Lucas Brusselle, Erwan Kervagoret, Francine Padonou, Jérémie Poschmann, Matthieu Giraud (France)

15:05  Mapping the RA synovial immune-peptidome
Kathryn Steel¹, Elizabeth Pook¹, Sri Ramarathinam², Tiing Jen Loh², Jia Jia Lim², Jean-Baptiste Richard¹, Sarah Ryan¹, Melody Chin¹, Nora Ng¹, Esperanza Perucha¹, Christopher Buckley¹, Kim Midwood¹, Hugh Reid², Jamie Rossjohn², Anthony Purcell², Andrew Cope¹ (United Kingdom, ²Australia)

15:15  Discussion
ECOCEM ROOM | 14:15-15:30
WORKSHOP 21 - CANCER IMMUNOGENETICS

14:15
WS21.1 Harnessing NK cell-mediated killing of prostate cancer cells through epigenetic modulation
Filipa dos Reis, João Lobo, Isa Carneiro, Rui Freitas, Rui Henrique, Carmen Jerónimo, Margareta Correia (Portugal)

14:25
WS21.2 Exploring the interplay between the RNA editing enzyme ADAR1 and innate immune responses in cervical cancer
Marta Kaciulis, Stefano Petrai, Valentina Tassinari, Emanuela Maria Greco, Angelina Pernazza, Martina Leopizzi, Francesca Belleudi, Danilo Ranieri, Silvia Ruggeri, Helena Stabile, Marco Cippitelli, Cristina Cerboni, Alessandra Soriani (Italy)

14:35
WS21.3 Clonal evolution analysis of paediatric lymphoma reveals a highly diversified and continuous cellular status and potential target for precision medicine
Tracer Yong, Roberta D’Aulerio, Christian Oertlin, Julien Record, Anna Kwiecinska, Fredrik Baecklund, Lisa S. Westerberg (Sweden)

14:45
WS21.4 Light induced expression of gRNA allows for optogenetic gene editing of T lymphocytes in vivo
Diego Velasques Pulgarin¹, Nathalie Pelo¹, Lin Ferrandiz², Tilen Trselic¹, William Nyberg³, Gary Bowlin³, Alexander Espinosa² (¹Sweden, ²France, ³USA)

14:55
WS21.5 A combined multi-omics approach reveals the impact of epigenetic therapies on the immunopeptidome of acute myeloid leukemia
Jens Bauer, Regina Bohnert, Jonas Scheid, Marissa Dubbelaar, Annika Nelde, Hans-Georg Rammensee, Matthias Schwab, Elke Schaeffeler, Juliane S. Walz (Germany)

15:05
WS21.6 Lurbinectedin-induced transcriptional reprogramming: a pathway to sensitise SCLC to immunotherapy
Joan Russo-Cabrera, Santiago Ponce-Aix, Patricia Cozar, Alicia Luengo, Alejandro Navarro, María de los Reyes Bernabé, María Eugenia Olmedo, José Manuel Trigo, Jon Zugazagoitia, Luis Paz-Ares, Itziar Otano (Spain)

15:15 Discussion
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AUDITORIUM | 15:55-17:10
SYMPOSIUM - AUTOIMMUNITY
Chairs: Margarita Dominguez-Villar (United Kingdom), Adrian Hayday (United Kingdom)

15:55  γδ T cell selection by BTNL proteins limits progression of IBD
Robin Dart (United Kingdom)

16:15  Multi-level regulation of autoimmune neuroinflammation by the non-canonical NF-κB signalling pathway
Ari Waisman (Germany)

16:35  Identifying novel MAIT cell-specific antigens in Type 1 diabetes through drug discovery approaches
Iria Gomez-Touriño (Spain)

16:55  Discussion

LIFFEY B | 15:55-17:10
SYMPOSIUM - NEUROIMMUNOLOGY
Chairs: Yvonne Dombrowski (United Kingdom), Rana Karabudak (Turkey)

15:55  Neural control of anti-inflammatory pathways
Gianluca Matteoli (Belgium)

16:15  IL-2 and regulatory T cells in the nervous system
Adrian Liston (United Kingdom)

16:35  Type I IFNs in neurodegeneration
Shohreh Issazadeh-Navikas (Denmark)

16:55  Discussion

LIFFEY A | 15:55-17:10
AAI SYMPOSIUM
Immune responses at barrier tissues
Chairs: Stephen Jameson (USA), Amanda Lund (USA)

15:55  Unique mechanisms of early life inflammation
Shruti Naik (USA)

16:15  Itchy immunity driven by myeloid specific IL-33
De’Broski Herbert (USA)

16:35  Regulation of mucosal tissue immunity in context of virus infection
Jennifer M. Lund (USA)

16:55  Discussion

WICKLOW HALL 2 | 15:55-17:10
WORKSHOP 22 - CANCER VACCINES AND IMMUNOTHERAPIES

15:55  Bacterial nanoparticles as a novel platform for personalized cancer vaccines
WS22.1  Thomas van den Brekel¹, Sanne Duinkerken¹, Laura Kruijssen¹, Katarina Olesek¹, Eleonora Nardini¹, Magali Coccimiglio¹, Sjoerd Schetters², Wouter Jong³, Joen Luijink¹, Yvette van Kooyk¹ (¹Netherlands, ²Belgium, ³Sweden)

16:05  In-situ vaccination with Flt3L elicits immune responses against hepatocellular carcinoma and improves checkpoint blockade therapy
WS22.2  Isabella Lurje¹, Wiebke Werner¹, Ajay-Mohan Mohan¹, Nicola Beindorff¹, Natalie Nestel¹, Justus Pein¹, Anne Schlutt¹, Yaroslava Shevchenko¹, Paul Horn¹, Kirsten Reers¹, Alix Bruneau¹, Deniz Uluk¹, Georg Lurje¹, Henry Marsh², Michael Yellin², Frank Tacke¹, Linda Hammerich¹ (¹Germany, ²USA)

16:15  Polymeric nanoparticles targeting conventional type 1 dendritic cells enhance antigen cross-presentation and CD8+ T cells by activation of the non-canonical inflammasome
WS22.3  Jorge Huete-Carrasco, Natalia Muñoz-Wolf, Ross W. Ward, Ed Lavelle (Ireland)

16:25  MV130 as a new innate memory-based mucosae vaccine against cancer
WS22.4  Luna Cordeiro Minute, Laura Bravo Robles, Pablo Mata Martinez, Francisco Javier Cueto, Jaime Fernandez-Pascual, Eduardo Lopez-Collazo, Carlos Del Fresno (Spain)

16:35  Can immunotherapies engaging the CD3/γδ TCR complex help reactivate exhausted γδ T cells in a tumoral microenvironment?
WS22.5  Morgane Chauvet, Emmanuel Scotet, Dorothée Bourges (France)

16:45  Enhancing oncolytic virus-infected cellular vaccines with tumor-rejecting lymphocyte transfer for the immunotherapy of triple-negative breast cancer
WS22.6  Guillaume St-Cyr, Lauren Daniel, Hugo Giguère, Lee-Hwa Tai (Canada)

16:55  Discussion
MONDAY, 2 SEPTEMBER 2024

LIFFEY HALL 2 | 15:55-17:10
WORKSHOP 23 - MACROPHAGE FUNCTION AND REGULATION

15:55  WS23.1  MafB regulates monocyte-to-macrophage differentiation and imprints tissue resident macrophage identity and function
_Domien Vanneste, Wen Peng, Joan Abinet, Malik Hamaidia, Alexis Balthazar, Alexandre Hego, Philippe Compère, Bénédicte Machiels, Thomas Marichal (Belgium)_

16:05  WS23.2  Pentose phosphate pathway derived NO orchestrates macrophage immunometabolic responses through TCA cycle crosstalk; a target for *Mycobacterium tuberculosis* immune evasion
_John McGrath, Anna Ledwith, Cian Horneck Johnston, Frederick Sheedy (Ireland)_

16:15  WS23.3  CXCR3 mediates CD49a+ NK cell differentiation in colorectal cancer liver metastasis by promoting tissue residency in supportive macrophage niches
_Eleonora Russo, Chiara Di Censo, Chiara D’Aquino, Luana Tomai-pitinca, Giuseppe Sciumè, Giovanna Peruzzi, Valerio Licursi, Mattia Laffranchi, Francesca Sozio, Silvano Sozzani, Stefano Garofalo, Cristina Limatola, Angela Santoni, Giovanni Bernardini (Italy)_

16:25  WS23.4  Myeloid type i ifn sensing facilitates stress erythropoiesis
_Florian Deckert, Asma Farhat, Alina Fokina, Lisabeth Pimenov, Riem Gawish, Sylvia Knapp (Austria)_

16:35  WS23.5  Mutual immunomodulatory effect of a high-sodium diet and antihypertensive drugs on mouse macrophages
_Martyna Cieślik¹, Spencer D. Strobel¹², Bernadeta Nowak¹, Krzysztof Bryniarski¹, Katarzyna Nazimek¹ (¹Poland, ²USA)_

16:45  WS23.6  CD109 as a target for lung cancer and tumor-associated macrophages
_Tine Haesen¹, Maximilian Schinke¹, Vanessa Neuhaus¹, Susann Dehmel¹, Mania Ackermann¹, Pirjo Laakkonen², Armin Braun¹, Katherina Sewald¹ (¹Germany, ²Finland)_

16:55  Discussion
WICKLOW HALL 1 | 15:55-17:10
WORKSHOP 24 - IMMUNOMETABOLISM IN CANCER

15:55
WS24.1
The tumor microenvironment drives mitochondrial metabolic reprogramming in neutrophils during non-small cell lung cancer
Marah Runtsch, Oliver Kindler, Thomas Eichmann, Ana Santiso, Kathrin Maitz, Luka Brcic, Joerg Lindemann, Julia Kargl (Austria)

16:05
WS24.2
Tackling tumor microenvironment metabolism: unveiling IL4i1’s role and therapeutic potential
Marco Gargaro1, Giulia Mencarelli1, Andrea Marra1, Estevão Carlos Silva Barcelos1, Andrea Astolfi1, Giorgia Manni1, Giulia Scalisi2, Doriana Ricciuti1, Benedetta Pieroni1, Francesco Sarnari1, Alessandro Pinzi1, Giuseppe Manfroni1, Marco Colonna2, Robert Schreiber2, Maria Letizia Barreca1, Peter Murray4, Kenneth M. Murphy3, Francesca Fallarino1 (Italy, 2France, 3USA, 4Germany)

16:15
WS24.3
Extracellular α-ketoglutarate potentiate myeloid cells' capacity to induce Th17 and Tregs
Marijana Milanović, Luka Pavlović, Marina Bekić, Aleksandar Bisenić, Jelena Đokić, Miodrag Čolić, Sergej Tomić (Serbia)

16:25
WS24.4
Overcoming the limitations of α4-1BB/PD1 dual treatment by exploring the metabolic programming of therapy-responsive T-cells
Frédérique de Graaf1, Nils Mülling1, Felix Behr1, Ward Vleeshouwers1, Macha Beijnes1, Quint Blom1, Lucas Brock1, Ramon Arens1 (Netherlands)

16:35
WS24.5
Assessing immune cell infiltration and metabolic activity during immunotherapy in vivo through immuno-metabolic PET/MRI imaging
Sixing Li, Marie-Aline Neveu, Laura Kübler, Manfred Kneilling, André Martins (Germany)

16:45
WS24.6
Mitochondrial respiratory complex III sustains IL-10 production in macrophages and promotes tumor-mediated immune evasion
Alessia Zotta1, Shane O’Carroll1, Eva Palsson-McDermott1, Juliana Toller-Kawahisa1, Emily Day1, Ross W. Ward1, Dylan Ryan2, Marah Runtsch2, Kathrin Maitz2, Anna Lueger2, Julia Kargl1, Mark Watson2, Martin Brand4, Ed Lavelle1, Luke O’Neill1 (Ireland, 2United Kingdom, 3Austria, 4USA)

16:55
Discussion
MONDAY, 2 SEPTEMBER 2024

LIFFEY HALL 1 | 15:55-17:10
WORKSHOP 25 - AI AND BIOINFORMATICS

15:55  TCRgrapher: a software for the identification of antigen-specific TCRS
       WS25.1  Kseniia Lupyr¹, Pavel Shelyakin², Konstantin Sobyanin¹, Ruslan Martynov¹,
            Vladimir Popov¹, Sevastyan Rabdano¹, Irina Linge¹, Olga Nikitina¹, Ilya Kofiadi¹,
            Dmitry Staroverov¹, Mikhail Shugay¹, Dmitriy Chudakov¹,², Olga Britanova¹(¹Russian
            Federation, ²United Arab Emirates)

16:05  Modeling variations in antibody response magnitude and longevity
       WS25.2  Paola Stolfi, Filippo Castiglione, Enrico Mastrostefano, Silvia Scarpetta, Antonella
            Prisco (Italy)

16:15  Unveiling the power of high-dimensional cytometry data with
       WS25.3  cyCONDOR
            Charlotte Kroeger¹, Sophie Müller¹, Jacqueline Leidner¹, Theresa Kröber¹, Stefanie
            Warnat-Herresthal¹, Jannis B. Spintge¹, Timo Zajac¹, Aleksej Frolov¹, Caterina
            Carraro¹, Simone Puccio², Joachim L. Schultze¹, Tal Pacht¹, Marc Beyer¹, Lorenzo
            Bonaguro¹ (¹Germany, ²Italy)

16:25  Bw4 ligand and direct T-cell receptor binding induced selection on
       WS25.4  HLA A and B alleles
            Yoram Louzoun, Reut Levi (Israel)

16:35  Quantitative comparison of cellular trajectories from single-cell
       WS25.5  transcriptomics data
            Lisa Maria Steinheuer, Kevin Thurley (Germany)

16:45  The National Research Data Infrastructure for Immunology in Germany
       (NFDI4Immuno): building a framework for comprehensive immunological data integration
       and analysis, collaboration and open science
            Sebastian Ferrara, Amro Abbas, Axel, Ronald Schulz, Christian Busse, Henrik, E.
            Mei, Hyun-Dong Chang (Germany)

16:55  Discussion
LIFFEY MEETING ROOM 2 | 15:55-17:10
WORKSHOP 26 - IMMUNOLOGY OF SKIN DISEASE

15:55 Lin-CD117+CD34+FceRI+ progenitor cells in chronic spontaneous urticaria and atopic dermatitis
Katie Ridge, Barry Moran, Cliona O’Farely, Alan Irvine, Mark Little, Conor Finlay, Niall Conlon (Ireland)

16:05 Single-cell responses to mTOR inhibition in patients with cutaneous sarcoidosis
Kveta Brazdilova, Anna Redl, Luisa Unterluggauer, Lisa Kleissl, Thomas Krausgruber, Thomas W. Weichhart, Christoph Bock, Georg Stary (Austria)

16:15 The hair canal serves as an EGFR-regulated antimicrobial gatekeeper
Lena Artner-Gent, Regina Jin, Karoline Strobl, Dana Krauss, Joana Silva, Petra Pjevac, David Berry, Tatiana Chontorotzea, Jörg Klufa, Thomas Bauer, Maria Sibilia (Austria)

16:25 Spermidine/spermine N1-acetyltransferase controls tissue-specific regulatory T cell function in chronic skin inflammation

16:35 Single cell transcriptomics reveals two fates of hair follicle stem cells in patients with hidradenitis suppurativa and sheds light on the mechanisms of keratinisation and inflammation
Audrey Onfroy, Jean-Louis Francette, Etienne Audureau, Philippe Lecorvoisier, Caroline Boucle, Fanny Coulpié, Véronique Godot, Pierre Wolkenstein, Yves Lévy, Piotr Topilko, Sophie Hue (France)

16:45 Multimodal and longitudinal single-cell analysis of local innate immune response to vaccine in ex vivo natural human skin modules
Manon Scholaert¹, Mathias Peries¹, Emilie Braun¹, Jeremy Martin¹, Nadine Serhan¹, Alexia Loste¹, Bruner Audrey¹, Lilian Basso¹, Benoit Chaput¹, Eric Merle², Pascal Descargues², Emeline Pages¹, Nicolas Gaudenzio¹ (¹France, ²USA)

16:55 Discussion
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters/s</th>
</tr>
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<tbody>
<tr>
<td>15:55</td>
<td>WS27.1</td>
<td>Atherosclerotic patients at high-risk for plaque destabilization show an enhanced adaptive reconfiguration of NK cells in response to HCMV</td>
<td>Irene Bonaccorsi, Jose Freni, Maria Crescenti, Esther Bertuccio, Alessandra Fittipaldi, Filippo Benedetto, Paolo Carrega, Guido Ferlazzo (Italy)</td>
</tr>
<tr>
<td>16:05</td>
<td>WS27.2</td>
<td>Comparative analysis of interferon (IFN) signalling reveals an IFNγ-Jak1 axis in the selective control of intestinal stem cell niche damage and fetal injury</td>
<td>Megan O’Brien, Caoimhe Cadden, Eóin McNamee (Ireland)</td>
</tr>
<tr>
<td>16:15</td>
<td>WS27.3</td>
<td>Immune cells play a critical role in cytokine- and endotoxin-mediated endothelial permeability</td>
<td>Samira Ortega Iannazzo, Patricia Gogesch, Nicole Rupp, Joachim Rom, Markus Kreuz, Kristin Reiche, Martina Anzaghe, Zoe Waibler (Germany)</td>
</tr>
<tr>
<td>16:25</td>
<td>WS27.4</td>
<td>IL-18-induced HIF-1α in ILC3s ameliorates the inflammation of C. rodentium-induced colitis</td>
<td>Lucía Sancho, Raquel Castillo-González, Ana Valle, Cristina Villa, Aranzazu Cruz-Adalia (Spain)</td>
</tr>
<tr>
<td>16:35</td>
<td>WS27.5</td>
<td>Complement-mediated severe hypersensitivity reaction to paclitaxel</td>
<td>Jennifer Bolaños, Mariona Pascal, Rosa Muñoz-Cano, Francisco Lozano (Spain)</td>
</tr>
<tr>
<td>16:45</td>
<td>WS27.6</td>
<td>Anti-Ig-E treatment in patient with severe asthma and eosinophilic granulomatosis with polyangiitis: a case report</td>
<td>Nurgul Naurzvai, Haluk Turktas (Turkey)</td>
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<tr>
<td>16:55</td>
<td></td>
<td>Discussion</td>
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</table>
ECOCEM ROOM | 15:55-17:10
WORKSHOP 28 - IMMUNE SENESCENCE AND AGING

15:55
IL-15 drives NK-receptor mediated cytotoxicity in senescent CD8 T cells
WS28.1 Olivia Bracken, Luciana Covre, Wing Tung Ma, Luisa Chocarro De Erauso, Roel De Maeyer, Christina Rollings, Linda Sinclair, Carlos Henrique Fantecelle, Yanchun Peng, Doreen Cantrell, Tao Dong, Daniel Gomes, Arne Akbar (United Kingdom)

16:05
Persistent exposure to cancer-derived granulocyte colony stimulating factor leads to aberrant bactericidal functionality of neutrophils
WS28.2 Ekaterina Pylaeva, Olga Shevchuk, Lea Tollrian, Jana Riedesel, Irem Ozel, Cornelius Kürten, Jan Kehrmann, Daniel Robert Engel, Helmut Hanenberg, Stephan Lang, Jadwiga Jablonska (Germany)

16:15
Loss of SARM1 attenuates chemokine production & immune cell infiltration during retinal degeneration
WS28.3 Luke Gibbons, Chris Greene, Charlotte Leane, Sarah Doyle (Ireland)

16:25
Senescence related phenotypic alterations of lymphocytes are affected by dialysis prescription and can predict mortality in dialysis patients
WS28.4 Georgios Lioulios1, Aliki Xochelli1, Theodoros Tourountzis1, Michalis Christodoulou1, Eleni Moysidou1, Stamatia Stai1, Aikaterini Papagianni1, Ioannis Theodorou2, Maria Stangou1, Asimina Fylaktou1 (1Greece, 2France)

16:35
Sustainable T and B cell immunity in long-lived rodents (Spalax)
WS28.5 Maria Metsger1, Alexey Davydov1,2, Pavel Shelyakin3, Mark Izraelson4, Aleksei Mazalov4, Irina Shagina5,6, Jessica. Nordlund5, Ulrika Liljedahl5, Valeriia Kriukova6, Ksenia Lupyr5, Imad Shams6, Dmitriy Chudakov1,4, Olga Britanova5 (1Czech Republic, 2USA, 3United Arab Emirates, 4Russian Federation, 5Sweden, 6Israel)

16:45
Aging drives dysregulation of regulatory T cells in the gut mucosa
WS28.6 Jefferson Leite, Natalia Notarberardino Bos, Rebecca Jasser, Zeynep Ergun, Katlynn Carter, Aysan Pousardegh Zonouzi, Emmanouil Stylianakis, Nadine Hoevelmeyer, Ari Waisman (Germany)

16:55
Discussion
TUESDAY, 3 SEPTEMBER 2024

AUDITORIUM | 08:30-09:45
SYMPOSIUM - INNATE IMMUNITY TO VIRUSES
Chairs: Evangelos Andreakos (Greece), Sylvia Knapp (Austria)

08:30  cGAS-STING-NFkB is an ancient antiviral pathway
       Rune Hartmann (Denmark)

08:50  Role of DNA damage and microbiota in antiviral immunity
       Nelson Gekara (Sweden)

09:10  Lung mononuclear cells in respiratory tract infections
       Anna Smed-Sörensen (Sweden)

09:30  Discussion

LIFFEY B | 08:30-09:45
SYMPOSIUM - PLASMA CELLS
Chairs: Andreas Radbruch (Germany), Marieke Van Ham (The Netherlands)

08:30  Recruitment of plasma cells to the bone marrow upon vaccination
        and infection
       Mir-Farzin Mashreghi (Germany)

08:50  Plasma cell responses to SARS-CoV-2 vaccines
       Rita Carsetti (Italy)

09:10  Regulatory plasma cells
       Simon Fillatreau (France)

09:30  Discussion

LIFFEY A | 08:30-09:45
EAACI SYMPOSIUM
The new nomenclature for allergy and hypersensitivity reactions
Chair: Mubeccel Akdis (Switzerland)

08:30  New nomenclature of allergic diseases and hypersensitivity reactions
       Marek Jutel (Poland)

08:50  The new nomenclature proposal for allergy and autoimmunity
       Ioana Agache (Romania)

09:10  Epithelial Barrier Theory: Novel evidence on mechanisms of
        development of allergic and autoimmune disease
       Cezmi Akdis (Switzerland)

09:30  Discussion
TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 2 | 08:30-09:45
WORKSHOP 29 - T CELL IMMUNITY IN CANCER

08:30

Highly multiplexed and 3D microscopy of the bone marrow microenvironment reveals rapidly expanding immature vasculature and PD-1+CD8+ T cell niches driving leukemic progression

Lanzhu Li¹, Geoff Ivison², Isabelle Rottmann¹, Jan C. Schröder¹, Yury Goltsev¹, Garry P. Nolan¹, Aaron T. Mayer¹, Bettina Weigelin¹, Christian M. Schürch¹ ('Germany, ²USA)

08:40

Mapping T cell signatures associated to response to neoadjuvant chemotherapy in colorectal liver metastasis

Maud Mayoux¹, Fabius Wiesmann¹, Gioana Litscher¹, Marijne Vermeer¹, Stanislav Dergun¹, Khemara Long¹, Ariana Karimi¹, Samira Burr¹, Nicolas Nunez¹, Ekaterina Friebel², Tobias Wertheimer¹, Colin Sparano¹, Florian Mair¹, Burkhard Becher¹, Bettina Sobottka-Brillout¹, Sònia Tugues¹ ('Germany, ²Switzerland)

08:50

Beyond helpers: unraveling the potential of CD4+ cytotoxic T cells in B cell lymphoma

Ivana Spasevska, Karoline Kongsrud, Ankush Sharma, Eveline Scherer, Hanna Julie Hoel, Marianna Vincenti, Monica Bostad, Heidi Ødegaard Noto, Idun Dale Rein, Claire Dunn, Kanutte Huse, June H. Myklebust ('Norway)

09:00

Distinct spatiotemporal dynamics drive CD8+ T cell fate decision in tumor microenvironment

Valentina Russo, Carlo De Intinis, Gaia Montacchiesi, Luca Petiti, Nadia Brasu, Denis Baev, Lucia Lopez, Federica Benvenuti, Anna Sapino, Luigia Pace ('Italy)

09:10

Tissue resident T cell responses to immunotherapies at the patient derived tumor-lung tissue interface

Tonia Bargmann, Sebastian Konzok, Dirk Schaudien, Christopher Werlein, Patrick Zardo, Lavinia Neuebert, Danny Jonigk, Hans-Gerd Fieguth, Katherina Sewald, Susann Dehmel, Armin Braun ('Germany)

09:20

Distinct immune resistance profiles of malignant subpopulations contribute to intra-tumoral heterogeneity of pancreatic cancer

Abir Hussein, Ayse Nur Menevse, Julian Sax, Leonard Bellersheim, Antonio Sorrentino, Mostafa El-Tager, Daniele Ferrari, Andrea Markus, Ahmed Mahfouz, Marcel Reinders, Frauke Alves, Philipp Beckhove ('Germany)

09:30

Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY HALL 2 | 08:30-09:45
WORKSHOP 30 - NOVEL THERAPEUTICS FOR AUTOIMMUNE DISEASES

08:30  Engineered nanobodies as tools to visualize and direct antigen specific tolerance
WS30.1  Novalia Pishesha (USA)

08:40  Anti-citrullinated histone antibody CIT-013: targeting neutrophil extracellular traps as an anti-inflammatory therapy in hidradenitis suppurativa
WS30.2  Stephanie van Dalen¹, Josephine Stein¹, Tirza Bruurmijn¹, Martyn Foster², John Ingram², Jacek Szepietowski³, Piotr Krajewski³, Errol Prens¹, Kelsey van Straalen¹, Maarten van der Linden¹, Renato Chirivi¹, Eric Meldrum¹ (¹Netherlands, ²United Kingdom, ³Poland)

08:50  Elimination of CD45RChigh T and B cells by anti-CD45RC mAb lead to efficient control of experimental rheumatoid arthritis
WS30.3  Cécile Bergua, Marine Besnard, Ghenima Ahmil, Laure-Helene Ouisse, Nadege Vimond, Apolline Salama, Bérangère Evrard, Elise Brisebard, Alexis Collette, Frédéric Blanchard, Thibaut Larcher, Benoit Le Goff, Ronald Van Brempt, Ignacio Anegon, Carole Guillonneau (France)

09:00  RP23: a novel peptide-based therapeutic for inflammatory skin diseases
WS30.4  Jack Rawlings, Anneliese Ashhurst, Skye Stockdale, Daniel Ford, Joshua Maxwell, Rachael Ireland, Richard Payne, Scott Byrne (Australia)

09:10  Slamming the brakes on autoimmunity: inhibition of the CD40:CD40L pathway utilizing fab fragments and nanobodies
WS30.5  Kathrine Pedersen, Nick Stub Laursen, Yaseelan Palarasah, Søren Egedal Degn, Steffen Thiel (Denmark)

09:20  An unbiased high-throughput screening identifies repurposing drugs and novel molecules that reduce proinflammatory cytokine secretion in the context of rheumatoid arthritis
WS30.6  Martín Kotrulev, Beatriz García-Pinel, Rodrigo Bernardez-Alfaya, Yolanda Lopez-Golán, Oscar Javier Cordero, Eddy Sotelo, Rubén Varela-Calvino, Iria Gomez-Touriño (Spain)

09:30  Discussion
TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 1 | 08:30-09:45
WORKSHOP 31 - DIET, OBESITY AND IMMUNE MODULATION

08:30  WS31.1  Obesity-induced dysbiosis impairs type 2 immune responses
        Inaya Hayek¹, Viviane Schmidt¹, Lea Semmler¹, Roman Gerlach¹, Padraic Fallon²,
        Christian Schwartz¹ (¹Germany, ²Ireland)

08:40  WS31.2  Loss of adipose tissue protects mice from intestinal inflammation
        Toka Omar, Marilena Letizia, Britta Siegmund, Carl Weidinger (Germany)

08:50  WS31.3  Obesity-induced changes in perivascular adipose tissue fibroblasts in
        a mouse model of atherosclerosis
        Lea Mikkola, Ivana Mikocziova, Minna Piipponen, Mira Valkonen, Jimmy Fagersund,
        Senthil Palani, Anne Roivainen, Ana Hernández de Sande, Merja Heinäniemi, Pekka
        Ruusuuvuori, Tiit Örd, Minna U. Kaikkonen, Tapio Lönnerg (Finland)

09:00  WS31.4  Structural variations and developmental characteristics of adipose-
        associated serosal lymphoid tissues in mice
        Xinkai Jia, Peter Balogh (Hungary)

09:10  WS31.5  Obesity and sex differences: an overlooked reality in preclinical studies
        Lisa Schuetz¹,², Gayel Duran¹,², Paulien Baeten¹,², Doryssa Hermans¹,², Sarah
        Chenine¹,², Janne Verreycken¹,², Tim Vanmierlo¹,², Kristiaan Wouters¹, Bieke Broux¹,²
        (¹Belgium, ²Netherlands)

09:20  WS31.6  High fat low carbohydrate is linked to protection against the
        development of CNS autoimmunity
        Duan Ni, Jian Tan, Julen Reyes, Alistair Senior, Caitlin Andrews, Jemma Taitz, Camille
        Potier, Claire Wishart, Alanna Spiteri, Laura Piccio, Nicholas King, Stephen Simpson,
        Ralph Nanan, Laurence Macia (Australia)

09:30  Discussion
LIFFEY HALL 1 | 08:30-09:45
WORKSHOP 32 - T CELL MEMORY IN HEALTH AND DISEASE

08:30 WS32.1 Epigenetic imprints in human T cells reveal DNA replication speed as a driver for memory differentiation
Dania Hamo, Ghazaleh Zarrinrad, Anne Schulze, Kristy Ou, Paula Linh Kramer, Judith Gottfriend, Cornelia Peitsch, Marcel Finke, Mingxing Yang, Frederik Hamm, Abdulrahman Salhab, Pascal Giehr, Leila Amini, Verena Wolf, Jörn Walter, Julia K Polansky

08:40 WS32.2 Iron deficiency and acquired immunity: novel perspectives on the effects of iron restriction on immunological memory and protective immune responses
Shamsideen Yusuf, Giulia Pironaci, Hannah Murray, Dana Costigan, Philip Holdship, Megan Teh, Alexandra Preston, Andrew Armitage, Fadi Issa, Ronjon Chakraverty, Alexander Hal Drakesmith (United Kingdom)

08:50 WS32.3 Leveraging the strategic positioning of central memory CD8+ T cells in steady state lymph nodes for enhanced secondary recall
Brigette Duckworth, Benjamin Broomfield, Raymond Qin, Carolina Alvarado, Chin Wee Tan, Gabrielle Belz, Verena Wimmer, Melissa Davis, Joanna Groom (Australia)

09:00 WS32.4 Staphylococcus aureus colonisation expands respiratory tissue-resident memory CD4+ T-cells, with the potential for heterologous immunity
Clodhna Daly, Seán Cahill, Rachel McLoughlin (Ireland)

09:10 WS32.5 A diverse pool of oral mucosa-resident memory T cells protects against viral infection at the site of entry
Florian Winkler, Fischer Carmen, Laura Marie Gail, Florian Deckert, Georg Stary, Johanna Strobl (Austria)

09:20 WS32.6 A tissue-specific molecular program governs the formation and function of brain-resident CD8+ T cells
Tarek Elmzzahi1,2, Darya Malko1,2, Mehrnoush Shakiba1, Doaa Hamada1, Martin Fuhrmann1, Kevin Man1, Axel Kallies2, Marc Beyer1 (1Germany, 2Australia)

09:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 2 | 08:30-09:45
WORKSHOP 33 - VACCINES FOR BACTERIAL DISEASES

08:30
WS33.1 Inducing tick immunity by vaccination as a novel strategy to prevent Lyme borreliosis
Melissa van Gool, Alexis Burnham, Francisca Bixirao Ferreira Andersen, Hannelore Beart, Jacqueline van Eck, Abhijeet Nayak, Joppe Hovius (Netherlands)

08:40
WS33.2 Immunogenicity and efficacy of vaccination with BCGΔBCG1419c and H1-TT against tuberculosis in mice
Cristian Alfredo Segura-Cerda, Maura Epifanía Matus-Ortega, Rogelio Hernández-Pando, Dulce Mata-Espinosa, Jorge Alberto Barrios-Payán, Mirna Burciaga-Flores, Mario Alberto Flores-Valdez (Mexico)

08:50
WS33.3 Chitin-derived polymers are promising cGAS-STING dependent mucosal vaccine adjuvants for respiratory pathogens
Dorian Dederko, Kate Roche, Jorge Huete-Carrasco, Nicole Roche, Jeremy Aboagye, Lorena García del Rio, Roisin Lynch, Hui Ma, Nicole O’Sullivan, Liam Murray, Grainne O’Rourke, Ed Lavelle (Ireland)

09:00
WS33.4 Preclinical immunological characterization of GMMA-based vaccine candidates against invasive nontyphoidal Salmonellosis
Marta Benincasa, Daniele De Simone, Maria Grazia Aruta, Martina Carducci, Roberta Di Benedetto, Carlo Giannelli, Francesco Berlanda Scorza, Miren Iturriza, Francesca Mancini, Rocio Canals, Omar Rossi (Italy)

09:10
WS33.5 The inhibition of IL-10 during immunization with a TLR agonist-based vaccine improves vaccine efficacy against the opportunistic pathogen Staphylococcus aureus
Alanna Kelly, Simon Carlile, Karen McCarthy, Tracey Claxton, Emilio Vozza, Kingston Mills, Rachel McLoughlin (Ireland)

09:20
WS33.6 Bacteria-targeting vaccine in prevention of cardiovascular and cardiothrombotic diseases
Jonna Alkula, Markus Ojanen, Vili Lampinen, Terho Lehtimäki, Pekka Karhunen, Vesa Hytönen (Finland)

09:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 08:30-09:45
WORKSHOP 34 - IMMUNE IMPAIRMENT AND EXHAUSTION

08:30  Role of Foxo1 and inflammation on T-cell exhaustion in the course of anti-tumor responses
WS34.1  Amélie Lombès, Mathieu Germain, Aurélie Durand, Léa Giraud, Armelle Blondel, Cédric Auffray, Bruno Lucas (France)

08:40  T cell Immunotherapy: thinking beyond inhibitory receptors
WS34.2  Ludovic Martinet (France)

08:50  Imiquimod induces gamma-delta T cell exhaustion in mouse psoriatic inflammation
WS34.3  Katarzyna Nazimek, Angelika Fedor, Bernadeta Nowak, Paulina Skalska, Martyna Cieślik, Magdalena Gębicka, Katarzyna Zaborowska, Krzysztof Bryniarski (Poland)

09:00  Activated hepatic stellate cells promote the retention and functional impairment of tissue-resident CD8+ T-cells in the fibrotic liver
WS34.4  George Finney, Stephanie Kucykowicz, Emily Naish, Daniel Brown Romero, Walid Al-Akkad, Amir Gander, Krista Rombouts, Mala K. Maini, Laura J. Pallett (United Kingdom)

09:10  Immune checkpoint molecules control the local antigen-specific immune response in the liver
WS34.5  Thomas Guinebretière, Anaïs Cardon, Jean-Paul Judor, Richard Danger, Sophie Conchon, Amédée Renand (France)

09:20  Circulating Immune profiling in people living with HIV (PLHIV) reveals that a differential pattern of exhaustion and activation is associated with viral control
WS34.6  Adriana Navas¹, dos Santos Jéssica¹, Groenendijk Albert¹, Nadira Vadaq¹, Maartje C.P. Jacobs-Cérophas¹, Bram van Cranenbroek¹, Wilhelm A.J.W. Vos¹, Marc J.T. Blaauw¹, Louise van Eekeren¹, Casper Rokx¹, Annelies Verbon¹, Mihai Netea¹, Leo Joosten¹, Hans Koenen¹, Andre van der Ven¹ (1Netherlands, 2Germany, 3Romania)

09:30  Discussion
TUESDAY, 3 SEPTEMBER 2024

ECOCEM ROOM | 08:30-09:45
WORKSHOP 35 - TOLERANCE AND IMMUNE REGULATION

08:30  Understanding immunity at the site of embryo implantation – implications for women with recurrent pregnancy loss
WS35.1 Ana Kisovar, Ingrid Granne, Jennifer Southcombe (United Kingdom)

08:40  Studies to determine myelin peptide-specific nanoparticle tolerance mechanisms and clinical translation
WS35.2 Joseph Podojil, Andrew Cogswell, Ming-Yi Chiang, Sandeep Kakade, Derrick McCarthy, Adam Elhowy, Stephen Miller (USA)

08:50  Tolerogenic dendritic cell-based immunotherapy to prevent unwanted immune response in enzyme replacement therapy for lysosomal storage disorders
WS35.3 Marta Fortunato, Daniela Tomasoni, Fabio Russo, Serena Gasperini, Simona Fecarotta, Maria Ester Bernardo, Giancarlo Parenti, Alessandro Aiuti, Laura Passerini, Silvia Gregori (Italy)

09:00  Tolerogenic dendritic cells are strong producers of extracellular vesicles with immunomodulatory function
WS35.4 Mats van Delen, Amber Dams, Hans de Reu, An Jacobs, Pascale Berckmans, Judith Derdelinckx, Inge Nelissen, Nathalie Cools (Belgium)

09:10  A new paradigm for the role of AIRE in the regulation of cytoskeleton
WS35.5 Dominik Filipp, Jana Petrusova, Jasper Manning (Czech Republic)

09:20  The embryonic lymphoid cells permanently imprint the thymic epithelial compartment
WS35.6 Gonçalo Nogueira¹, Francisca Soares-da-Silva¹, Nuno Alves², Pablo Pereira¹, Ana Cumano¹ (¹France, ²Portugal)

09:30  Discussion
TUESDAY, 3 SEPTEMBER 2024

AUDITORIUM | 10:30-11:45
SYMPOSIUM - THE FUTURE OF LEADERSHIP IN ACADEMIA / CHALLENGES FOR LEADERSHIP IN ACADEMIA
Chairs: Gunnur Deniz (Turkey), Myriam Nabhan (Ireland)

10:30 Impostors, role models and the “lean in” fad: the path to diversity & equality is riddled with traps (and promising practices!)
Christopher Begeny (United Kingdom)

11:00 Leading diverse teams
Silvie Klein-Franke (Switzerland)

11:30 Discussion

LIFFEY B | 10:30-11:45
SYMPOSIUM - RESOLUTION OF INFLAMMATION
Chairs: Attila Bacsi (Hungary), Jesmond Dalli (United Kingdom)

10:30 The STING-IFN type I axis in resolving inflammation and fibrosis
Amiram Ariel (Israel)

10:50 Regulation of T-Cell immune responses by pro-resolving lipid mediators
Sylvaine You (France)

11:10 Apoptosis and wound repair - resolving a perplexing match
Adriano Rossi (United Kingdom)

11:30 Discussion

LIFFEY A | 10:30-11:45
CSI SYMPOSIUM
Beauty for next-generation tumor immunotherapy
Chairs: Linrong Lu (China), Yuting Ma (China)

10:30 Lipid metabolism in TAMs governs antitumor immunity and ICB therapy
Su Bing (China)

10:45 Targeting of regulatory B cells in cancer immunotherapy
Chu Yiwei (China)

11:00 Touching of T cell tumor antigen recognition and differentiation
Li Guideng (China)

11:15 Decoupling of differentiation and proliferation programs to manufacture stem cell-like CAR T cells
Bo Huang (China)

11:30 Discussion
10:30 Inheritance of old mitochondria controls early CD8 T cell fate commitment and is regulated by autophagy

Mariana Borsa¹, Ana Victoria Lechuga-Vieco¹,², Amir Kayvanjoo³, Yavuz Yazicioglu¹, Ewoud Compeer¹, Felix C. Richter¹,⁴, Hien Bui⁵, Emilia Kuuluvainen⁶, Michael L. Dustin¹, Linda Sinclair¹, Doreen Cantrell¹, Pekka Katajisto⁵,⁶, Anna Katharina Simon¹,³
(¹United Kingdom, ²Spain, ³Germany, ⁴Austria, ⁵Finland, ⁶Sweden)

10:40 A subset of αβ8-expressing CD4+ effector memory T cells restrain anti-viral CD8+ T cell responses and prevent tissue pathology via activation of latent TGFβ

Craig McEntee¹,², Stephanie Houston², Conor Finlay¹,², Susan Christo², Stefano Rossi², Gang Liu¹, Tohav Shaw², Joshua Casulli², Mark Fife², Catherine Smedley², Thomas Griffith⁴, Marion Pepper⁴, Tracy Hussell², Philip Hansbro³, Jean-Marc Schwartz², Laura Mackay², Helena Paidassi⁸, Mark Travis² (¹Ireland, ²United Kingdom, ³Australia, ⁴Austria, ⁵Finland, ⁶Sweden)

10:50 Highly-functional myeloid-instructed CD8+ T-cells accumulate in the peritoneal cavity

Erich Freyer¹,², Daniel Brown Romero¹, George Finney¹, Anandita Mathur¹, Lucy Cooper¹, Maia K. Maini¹, Markus Cornberg², Laura J. Pallett¹ (¹United Kingdom, ²Germany)

11:00 Long noncoding RNA-124 regulates CD8+ T cell response to infection

Julia Erber¹, Carmen Stecher¹, Valerie Plajer¹, Nina Braun¹, William Mallard², Loyal Goff², Jun Zhao¹, Johannes Reisecker¹, Thomas Mohr¹, John Rinn², Richard Flavell¹, Dietmar Herndler-Brandstetter¹ (¹Austria, ²USA)

11:10 Exploring biomarkers of clinical response to immunotherapy in lung cancer: insights from peripheral CD8 T cell profiles and ctDNA dynamics post-PD-1 blockade

Nikita Dutta¹, Johanna Svensson¹, George-Alejandro Saad², Marielle Mello², Ella Eklund¹, Per Torstensson¹, Volkan Sayin¹, Hervé Luche², Anna Rohlin¹, Andreas Hallqvist¹, Sukanya Raghavan¹ (¹Sweden, ²France)

11:20 Activation phenotypes defined by coordinated expression of activation markers discriminate TCR-mediated and bystander T-cell responses

Tamara Schenk, Martijn Vos, Debbie van Baarle, Teun Guichelaar (Netherlands)

11:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY HALL 2 | 10:30-11:45
WORKSHOP 37 - B CELLS IN HEALTH AND DISEASE

10:30
WS37.1 Antigen-presenting autoreactive B cells activate regulatory T cells and suppress autoimmune arthritis in mice
Mike Aoun (Sweden)

10:40
WS37.2 Elucidation of antigen-specific B cell dynamics after vaccination reveals activated B cell states that precede the classical memory B cell and plasmablast compartments
Lisan Kuiper, Laura Fernandez Blanco, Laura Kummer, Sabrina Pollastro, Tineke Jorritsma, Mariël Duurland, Amelie Bos, Niels Verstegen, Marit J. van Gils, Mathieu Claireaux, George Elias, Juan Garcia Vallejo, Taco Kuipers, Filip Eftimov, Anja ten Brinke, Marieke van Ham (Netherlands)

10:50
WS37.3 The brain-infiltrating B cell in multiple sclerosis: identifying triggers and receptors contributing to its effector program
Kirsten Kuiper1, Jasper Rip1, Laurens Bogers1, Marie-Jose Melief1, Annet Wierenga-Wolf2, Liza Rijvers3, Ursula Boscht4, Ana Marques1, Jamie van Langelaar1, Romy Klein Kranenbarg1, Beatrijs Wokke1, Joost Smolders1, Marvin van Luijn1 (Netherlands, Germany)

11:00
WS37.4 Age-associated B cells drive loss of CD8+ T cells in systemic lupus erythematosus
Kristian Savstrup Kastberg1, Lasse F. Voss1, Gudrun Winther1, Kenneth Green1, Amanda Juul Howarth1, Layla Pohl1, Johanne Vium-Heinesen1, Lea Fritz1, Lisbeth Jensen1, Cecilia Fahlquist-Hagert1, Thomas R. Wittenborn1, Yonglun Luo1,2, Anne Troldborg1, Lin Lin1, Sören Egedal Degn1 (Denmark, China)

11:10
WS37.5 Contribution of memory B cells to the pool of bone marrow plasma cells through follicular and extrafollicular immune responses in health and disease
Marta Ferreira-Gomes, Pawel Darek, Frederik Heinrich, Gabriela M. Guerra, Franziska Szelinski, Tobias Alexander, Thomas Dörner, Andreas Radbruch, Mir-Farzin Mashreghi (Germany)

11:20
WS37.6 Distinct transcriptional profile drives enhanced activation responses in memory B cells compared to naive B Cells
Pietro Demela, Laura Esposito, Pietro Marchesan, Blagoje Soskic (Italy)

11:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 1 | 10:30-11:45
WORKSHOP 38 - IMMUNOMETABOLISM

10:30  Mitochondrial perturbation in immune cells enhances cell-mediated
WS38.1 innate immunity in Drosophila
Yuliya Basikhina¹, Laura Vesala¹,², Tea Tuomela¹, Anssi Nurminen¹, Emilia Siukola¹,
Tiina Salminen¹ (¹Finland, ²Sweden)

10:40  Glutamate dehydrogenase-prostaglandin E2 axis controls Treg cell
WS38.2 development with distinct features in maintaining immune tolerance
Fabien Prodjinotho¹, Neeraj Kumar¹, Jacob Lema², Cyilia Crisand¹, Dominik Stelzle¹,
Charles Makasi², Martin Haslbeck¹, Chummy Sikasunge³, Veronika Schmidt¹, Andrea
Winkler¹, Bernard Ngowi², Julia Esser-von Bieren⁴, Clarissa Prazeres da Costa¹
(¹Germany, ²Tanzania, ³Zambia, ⁴Switzerland)

10:50  Targeting amino acid uptake on NK cells to limit pathogenesis of
WS38.3 bacterial infections
Maxim Nosenko, Simon Carlile, Rachel McLoughlin, David Finlay (Ireland)

11:00  Deciphering the immunomodulatory effects of 4-hydroxynonenal in
WS38.4 human monocyte-derived macrophages: size does not matter if the impact is radical
Melina Ioannidis, Sjors Maassen, Britt Coenen, Martijn den Ouden, Pieter Grijpstra,
Danny Incarnato, Geert Van den Bogaart (Netherlands)

11:10  Metabolic shift of human (super)antigen-induced T cells in an ex vivo
WS38.5 lymphoid cell culture based on tonsils
Christopher Neullens, Ohl Kim, Klaus Tenbrock (Germany)

11:20  ANGPTL3 deficiency-induced hypolipidemia triggers spontaneous
WS38.6 interferon response
Alessandra Pinzon Grimaldos, Tiziano Giacomelli, Ilenia Pacella, Simone Bini, Alessia
Di Costanzo, Ilenia Minicocci, Laura D'erasmo, Marcello Arca, Silvia Piconese (Italy)

11:30  Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY HALL 1 | 10:30-11:45
WORKSHOP 39 - NOVEL APPROACHES TO VACCINOLOGY

10:30
WS39.1 Limited boosting and long-term immunity of SARS-CoV-2-specific CD8+ T cell responses after COVID-19 mRNA vaccination in people living with HIV
Vivien Karl, Anne Graeser, Anastasia Kremser, Liane Bausfeld, Siegbert Rieg, Susanne Usadel, Christoph Neumann-Haefelin, Matthias Müller, Robert Thimme, Maike Hofmann (Germany)

10:40
WS39.2 Time of day influences the CD8+ T cell response to mRNA vaccination
Ward Vleeshouwers, Suzanne van Duikeren, Dominique M.B. Veerkamp, Macha Beijnes, Lucas M. Brock, Laura Kervezee, Ramon Arens (Netherlands)

10:50
WS39.3 Immunization with BM325, a preS-based recombinant grass pollen allergy vaccine can overcome non-responsiveness to HBsAg-based hepatitis B virus vaccines
Inna Tulaeva1,2, Carolin Cornelius-Nikl1, Margarete Focke-Tejkl1, Milena Weber1, Mikhail Tulaev1, Felix Lehmann3, Nora Goldmann3, Alexandra Dubovets2, Alexander Karaulov2, Rainer Henning1, Dieter Glebe3, Rudolf Valenta1,2 (1Austria, 2Russian Federation, 3Germany)

11:00
WS39.4 Development of an immunocompetent 3D-bioprinted skin-on-chip model
Alexeja Kleiter, Claudia Zelle-Rieser, Nora Kaiser, Judith Hagenbuchner, Michael Ausserlechner, Patrizia Stoitzner (Austria)

11:10
WS39.5 Skin routes of immunization with Langerin-targeted HIV1-gp140 vaccine impacts on germinal center activation and tailors antibody response
Juliane S. Lanza, Adele Hammoudi, Joanna De Chiara, Mathieu Surénaud, Mireille Centlivre, Bernard Malissen, Véronique Godot, Yves Lévy, Sandrine Henri, Sylvain Cardinaud (France)

11:20
WS39.6 Exploring cross-functionality elicited by altSonflex1-2-3 vaccine candidate in different animal models
Valentina Caradonna, Marika Pinto, Renzo Alfini, Giacomo Vezzani, Carlo Giannelli, Omar Rossi, Miren Iturriza, Donata Medaglini, Francesca Micoli, Francesca Mancini (Italy)

11:30 Discussion
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LIFFEY MEETING ROOM 2 | 10:30-11:45
WORKSHOP 40 - BIOINFORMATICS IN IMMUNITY AND DISEASE

10:30
Unveiling tissue niches: Integrated analysis of gut resident T cells in humans using single-cell technologies
Raquel Bartolome Casado1, Rasa Elmentaite1, Amanda Jane Oliver1, Ni Huang1, Batuhan Cakir1, Alexander V. Predeus1, Ruoyan Li1, Ken To1, Krzysztof Polanski1, Laura Richardson1, Rakesh Kapuge1, Claudi Semprich1, Shani Perera1, Liam Bolt1, Kjersti Thorvaldsen Hagen1, Victoria Therese Karlsen1, Danh Phung1, Sheraz Yaqub1, Krishnaa Mahbubani2, Kourosh Saeb-Parsy2, Espen S. Bækkevold1, Frode Jahnsen1, Sarah Teichmann1 (Norway, United Kingdom)

10:40
The frail immune system: a frailty DNA methylation surrogate in circulating immune cells predicts preclinical ageing and future clinical outcomes
Matt McElheron1,2, Jordan Davies1, Etienne Patin2, Belinda Hernandez1, Lluis Quintana-Murci2, Darragh Duffy2, Cathal McCrory1, Rose Anne Kenny1, Aisling O'Halloran1, Nollaig Bourke (Ireland, France)

10:50
Diffusion-limited cytokine signaling in T cell populations
Brunner Patrick, Kiwitz Lukas, Li Lisa, Kevin Thurley (Germany)

11:00
Deep immune phenotyping of the ageing immune system
Lennart Riemann1, Rodrigo Gutierrez1, Ivan Odak2, Joana Barros-Martins2, Lennart M. Rösnér1, Ximena Leon Lara1, Christine Falk1, Thomas F. Schulz1, Gesine Hansen1, Thomas Werfel1, Reinhold Foerster1 (Germany, USA)

11:10
Pancreas-infiltrating T cells in Type 1 diabetes: an integrated investigative approach using spectral flow cytometry and bioinformatics analysis
Astrid Fabri, Lina Petersone, Natalie Edner, Chunjing Wang, Lucy Walker (United Kingdom)

11:20
Dissecting chromatin regulatory landscape during B cell activation
Pietro Marchesan, Pietro Demela, Laura Esposito, Blagoje Soskic (Italy)

11:30
Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 10:30-11:45
WORKSHOP 41 - MOLECULAR MECHANISMS IN INNATE IMMUNITY

10:30 WS41.1 The human leukocyte antigen (HLA) locus harbors translated IncRNAs with immunomodulatory functions
Ana Pinheiro Lopes, Alex Van Opstal, Marina Reixachs Solé, Jip T. Van Dinter, Luuk A. Broeils, Cornelis P.J. Bekker, Sebastiaan Van Heesch (Netherlands)

10:40 WS41.2 Study of the non canonical signalling induced by the binding of small molecules to CXCR4
Séverine Grinberg, Birgit Caspar, Ivana Stoilova, Mariette Matondo, Eleonore Bouscasse, Stephane Giorgiutti, Vincent Gies, Nikaïa Smith, Nassima Bekaddour, Dominique Cathelin, Anne-Sophie Korganow, Jean-Philippe Herbeuval (France)

10:50 WS41.3 Concentration dependent pro- and anti-inflammatory signaling by the SCFA butyrate Muwei Jiang, Geert Van den Bogaart (Netherlands)

11:00 WS41.4 Identification of novel interactors of T cell specific adaptor protein TSAd - an adaptor molecule with elusive function
Hanna Chan¹, Pawel Borowicz¹, Brian Christopher Gilmour¹, Maria Stensland¹, Iván García Loza¹, Santosh Phuyal¹, Romina Matter², Lukas Jeker², Tuula Anneli Nyman¹, Anne Spurkland¹ (¹Norway, ²Switzerland)

11:10 WS41.5 Peroxiredoxin 4 links redox homeostasis to innate antiviral immunity
Vasile Mihai Sularea, Jamie Sugrue, Andreea Atanasescu, Cliona O’Farely (Ireland)

11:20 WS41.6 A role for natural killer cells in establishment of non-reactivating latent HSV-1 reservoirs
Oscar Haigh, Kenza Breton, Paul Mazet, Jean Armengaud, Nolwenn Poccardi, Noemie Oziol, Roger Le Grand, Patrick Lomonte, Antoine Rousseau, Marc Labetoulle (France)

11:30 Discussion
ECOCEM ROOM | 10:30-11:45
WORKSHOP 42 - NK-BASED CANCER IMMUNOTHERAPIES

10:30 CAR-NK cell therapy combined with checkpoint inhibition induces a NKT cell response in glioblastoma
Florian Strassheimer, Philipp Elleringmann, Bastian Roller, Jadranka Macas, Tijna Alekseeva, Blerina Aliraj, Katharina Weber, Melanie Demes, Torsten Tonn, Yvonne Reiß, Karl Plate, Andreas Weigert, Winfried Wels, Joachim Steinbach, Michael Burger (Germany)

10:40 Defective NK cell function in metastatic melanoma patients underpinned by metabolic abnormalities
Eimear Mylod, Jack Behan, Fergal Kelleher, Clair Gardiner (Ireland)

10:50 Targeting intrinsic inhibitory checkpoints using nano-carriers to unleash NK cell anti-tumor activity
Batel Sabag, Guy Biber, Abhishek Puthenveetil, Mira Barda-Saad (Israel)

11:00 Dual blockage of PD-L/PD-1 and IL33/ST2 axes improves antitumor immunity by enhancing NK cells' tumoricidic potential
Marina Jovanovic, David Geller, Nevena Gajovic, Milena Jurisevic, Milan Jovanovic, Gordana Supic, Danilo Vojvodic, Ivan Jovanovic (Serbia)

11:10 The NKG2A-HLAE immune checkpoint: novel-IC therapy based on mAb to specific HLAE-peptide complexes
Muhammad Abu Ahmad, Olga Radinsky, Kamran Manzoor Waidha, Frank Momburg, Angel Porgador (Israel)

11:20 Primary NK cells modified by CD33-CAR insertion and CRISPR/Cas9-based disruption of the KLRC1 gene mediate high efficacy against acute myeloid leukemia
Tobias Bexte, Nawid Albinger, Ahmad Al-Ajami, Philipp Wendel, Jamal Alzubi, Alec Gessner, Sebastian Wolf, Hadeer Mohamed Rasheed, Beate Anahita Jung, Olaf Penack, Thomas Oellerich, Jan Henning Klusmann, Toni Cathomen, Michael Rieger, Katharina Imkeller, Evelyn Ullrich (Germany)

11:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

AUDITORIUM | 11:55-12:55
PLENARY SESSION 2
Chairs: Arne Akbar (United Kingdom), Meritxell Genescà (Spain)

11:55 How a break in mitochondrial endosymbiosis might lie at the heart of inflammatory diseases
Luke O’Neill (Ireland)

12:20 Discussion

12:25 The monocyte / macrophage link, revisited
Steffen Jung (Israel)

12:50 Discussion

AUDITORIUM | 14:30-15:45
SYMPOSIUM - TISSUE RESIDENT T MEMORY CELLS
Chairs: Frode Jahnsen (Norway), Kingston Mills (Ireland)

14:30 Human tissue resident cells in skin and mucosal membranes
Georg Stary (Austria)

14:50 Tissue resident T cells in psoriasis
Liv Eidsmo (Denmark)

15:10 Tissue resident memory T cells to urinary tract infection
Molly Ingersoll (France)

15:30 Discussion
LIFFEY A | 14:30-16:30
SYMPOSIUM - EASTERN STARS Awardees Symposium
Chairs: Peter Balogh (Hungary), Winfried Pickl (Austria)

14:30  Immune cell crosstalk during neuroinflammation
      Marina Babić Čač (Croatia)

14:45  Role of secretory leukocyte protease inhibitor (SLPI) on local upper respiratory and systemic immune responses
      Mieszko Wilk (Poland)

15:00  Manipulation of T cell memory to enhance vaccine efficiency
      Felix Wensveen (Croatia)

15:15  Deconstructed inflammasomes comprising cytokine release and deferred pyroptosis enhance antitumor immunity against diverse types of tumors
      Iva Hafner-Bratkovic (Slovenia)

15:30  The role of intestinal ILC3 in CNS autoimmunity
      Dorde Miljkovic (Serbia)

15:45  The molecular basis of T-cell memory
      Ondrej Stepanek (Czech Republic)

16:00  Discussion
WICKLOW HALL 2 | 14:30-15:45
WORKSHOP 43 - CONTROL OF TISSUE INFLAMMATION AND REPAIR

14:30 Macrophage-fibroblast crosstalk in the rheumatoid arthritis synovium is defined by sexually dimorphic extracellular matrix patterning and drives disruption of tissue homeostasis
Linda Mies, Jean-Baptiste Richard, Moustafa Attar, Stephen Sansom, Sarah Short, Joanna Hester, Andrew Filer, Christopher Buckley, Kim Midwood (United Kingdom)

14:40 Elucidating the role of interleukin-4 receptor alpha signalling in the pathogenesis of haemophilic arthropathy
Alexander Lawrence¹, Anne Chevalier¹, Peter Turecek², James O'Donnell¹, Padraic Fallon¹ (¹Ireland, ²Austria)

14:50 Staphylococcal Enterotoxin B Binding to CD28 mediates inflammatory T cell-dependent intestinal epithelial barrier dysfunction
Carola Amormino, Emanuela Russo, Valentina Tedeschi, Maria Teresa Fiorillo, Alessandro Paiardini, Francesco Spallotta, Laura Rosanò, Loretta Tuosto, Martina Kunkl (Italy)

15:00 Exploring the roles of γδ intraepithelial lymphocytes in gut physiology
Ambra Natalini, Vivien Kohlhaas, Robin Dart, Cara Brown, James Wilmouth Jr, Rocco D'Antuono, Lucinda Tullie, Colin Hutton, Vivian Li, Adrian Hayday (United Kingdom)

15:10 Utilizing integrated spatial transcriptomics to elucidate localized immune responses within human coronary arteries throughout the progression of atherosclerosis
Joana Campos, Desley Neil, Pasquale Maffia, Claudio Mauro (United Kingdom)

15:20 Current anti-TNF therapies do not prevent scar formation in Hidradenitis suppurativa (HS)
Conor Smith¹, Barry Moran¹, Alexandra Zabarowski¹, Mark Ryan¹, Jozsef Karman², Robert Dunstan², Kathleen Smith², Roisin Hambly¹, Emily Pender¹, Jana Musilova¹, Andreea Petrasca¹, Margaret O'Donnell¹, Siun Murphy¹, Karsten Hokamp¹, Kingston Mills¹, William Housley², Des Winter¹, Brian Kirby¹, Jean Fletcher¹ (¹Ireland, ²USA)

15:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY HALL 2 | 14:30-15:45
WORKSHOP 44 - COVID-19 IMMUNITY

14:30
WS44.1
Non-classical HLA-E class I molecule and its potential role in SARS-CoV-2 infection

Mahsa Rafieiyans, Giusto Davide Badami, Mojtaba Shekarkar azgomi, Marco Pio La Manna, Francesco Dieli, Nadia Caccamo (Italy)

14:40
WS44.2
SARS-CoV-2 virions hijack host cellular proteins to escape destruction by innate immunity

Laura Gebetsberger, Zahra Malekshahi, Gabor Tajti, Aron Teutsch, Frédéric Fontaine, Nara Marella, André Mueller, Lena Prantl, Hannes Stockinger, Heribert Stoiber, Anna Ohradanova-Repic (Austria)

14:50
WS44.3
Individually expressed SARS-CoV-2 ORF3a disrupts cellular structure and lipid metabolism in lung epithelial cells

Ana de Lucas Rius, Laura Mendoza García, Blanca Dies López-Ayllón, FedericoGattini, Natalia Redondo, Ana Joaquina Pérez Berná, Tránsito García García, Raúl Fernández Rodríguez, Sara Zaldívar López, María Josefa Rodríguez Gómez, Biagio Mandracchia, Diego Megías, Daniel Luque, Eva Pereiro, Juan J. Garrido, María Ángela Oliva, María Montoya (Spain)

15:00
WS44.4
Enhanced early type I interferon signaling is associated with resistance to SARS-CoV2 infection

Cian Reid¹, Jamie Sugrue², Federica Giangrazi¹, Adam Dyer¹, Sean Kennelly¹, Liam Townsend¹, Jean Dunne¹, Niall Conlon¹, Nollaig Bourke¹, Darragh Duffy², Cliona O’Farely³ (¹Ireland, ²France)

15:10
WS44.5
Longitudinal serosurveillance of severe acute respiratory syndrome coronavirus 2 in urban and rural cohorts in Malawi: characterising population exposure and protective immunity to viral variants

Mhairi McCormack¹, Louis Banda², Stephen Kasenda², Ellen Hughes¹, Lina Leonard¹, Annie Mwale², Estelle McLean², Alison Price³, Amelia Crampin², David Chaima², Abena Amoah², Tonney Nyirenda², Antonia Ho¹, Brian Willett¹ (¹United Kingdom, ²Malawi)

15:20
WS44.6
The long Pentraxin PTX3 serves as an early predictive biomarker of co-infections in COVID-19

Francesco Scavello¹, Enrico Brunetta¹, Sarah Mapelli¹, Emanuele Nappi¹, Ian Garcia¹, Marina Sironi¹, Roberto Leone¹, Giovanni Angelotti¹, Domenico Supino¹, Silvia Carnevale¹, Hang Zong¹, Elena Magrini¹, Matteo Stravalaci¹, Alessandro Protti¹, Alessandro Santini¹, Elena Costantini¹, Victor Savevski¹, Antonio Voza¹, Barbara Bottazzi¹, Michele Bartoli², Maurizio Cecconi¹, Alberto Mantovani¹², Paola Morelli¹, Federica Maria Pilar Tordato¹, Cecilia Garlanda¹ (¹Italy, ²United Kingdom)

15:30 Discussion
TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 1 | 14:30-15:45
WORKSHOP 45 - STROMAL CELLS IN IMMUNITY AND TISSUE REPAIR

14:30 | Enhanced long-term protective effects of CXCR4/IL10-expressing mesenchymal stromal cells in a preclinical model of inflammatory bowel disease
Mercedes Lopez-Santalla¹, Marta Covadonga Ordoñez-Velasco¹, Miriam Hernando-Rodriguez¹, María Fernandez-García¹,², Juan Antonio Bueren¹, Rosa Maria Yañez¹, Marina Garin¹ (¹Spain, ²France)

14:40 | Development of a 3D model of colorectal cancer to assess the stromal-mediated effects on T cells in a stromal-rich colorectal cancer tumour microenvironment
Eileen Reidy, Lei Lei, Niamh Leonard, Louise Rabbitt, Merah Al Busaidy, Abhay Pandit, Aideen Ryan (Ireland)

14:50 | Ehf and Fezf2 regulate thymic tissue homeostasis and thymic tuft cell development
Kristin Rattay (Germany)

15:00 | Characterization of an IL-33 expressing, immune active fibroblast subpopulation
Lisa Schmidleithner, Niklas Beumer, Frauke Hoffmann, Joachim Seebass, Thomas Hehlgans, Markus Feuerer (Germany)

15:10 | Stromal cells shape the immune response to mycobacteria
Anne Lösslein, Jana Neuber, Leonhard Wagner, Roman Sankowski, Sagar Sagar, Philipp Henneke (Germany)

15:20 | A circadian clock compound selectively impairs inflammation-induced antifibrinolytic activity to restore clot breakdown pathways
Paula Klavina¹, Aisling M. Rehill¹, Steven J. Humphreys², Claire S. Whyte², Nicola J. Mutch², Roger J. S. Preston¹, Annie M Curtis¹ (¹Ireland, ²United Kingdom)

15:30 | Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY HALL 1 | 14:30-15:45
WORKSHOP 46 - DENDRITIC CELL DIFFERENTIATION AND FUNCTION

14:30  
WS46.1  
Antigen-specific dendritic cell immunotherapy to halt autoimmunity in type 1 diabetes  
Aurora Forlani, Gloria Giacomello, Laura Passeri, Fabio Russo, Francesca Santoni de Sio, Anna Zanardini, Marina Scavini, Lorenzo Piemonti, Andrea Annoni, Laura Passerini, Silvia Gregori (Italy)

14:40  
WS46.2  
Distinct ontogenetic lineages dictate cDC2 heterogeneity  
Carlos M. Minutti¹,², Cécile Piot¹, Mariana Pereira da Costa¹, Probir Chakravarty¹, Neil Rogers¹, Hector Huerga Encabo¹, Ana Cardoso¹, Jane Loong¹, Gilles Bessou², Cyrille Mionnet², Jean Langhorne¹, Dominique Bonnet¹, Marc Dalod², Elena Tomasello², Caetano Reis e Sousa¹ (¹United Kingdom, ²France, ³Portugal)

14:50  
WS46.3  
Skin DCs display circadian (24 hour) rhythms in metabolic function which may be harnessed by dissolvable microneedle patch to improve vaccine efficacy  
Cloé Payet¹, Christine Butler¹, Aoife Rodgers¹, Sandrine Henri², Ryan Donnelly¹, Annie M Curtis¹ (¹Ireland, ²France)

15:00  
WS46.4  
Claudin 1-mediated maturation of thymic dendritic cells type 1 promotes clonal deletion and Treg selection via antigen transfer  
Jiri Brezina¹, Tomas Brabec¹, Matous Voboril¹, David Machac¹, Kristina Jancovicova¹, Vojtech Sykora¹, Ondřej Ballek¹, Jan Dobes¹, Martina Dobesova¹, Adela Cepkova¹, Michal Kolar¹, Petr Kasparek¹, Radislav Sedlacek¹, Sachiko Tsukita², Bernard Malissen³, Graham Anderson⁴, Dominik Filipp¹ (¹Czech Republic, ²Japan, ³France, ⁴United Kingdom)

15:10  
WS46.5  
Click chemistry allows the visualization of an immunogenic HLA-A2-restricted epitope on human monocyte-derived dendritic cells  
Thijmen Mostert, Amy Kessler, Robbie Luijten, Diana Torres García, Ward Doelman, Sander van Kasteren, Sonja Buschow (Netherlands)

15:20  
WS46.6  
Factors determining dendritic cell identity in peripheral tissues  
Sally Connolly, Elke Schwarzenberger, Carmen Tam-Amersdorfer, Magdalena Lang, Christina Passegger, Herbert Strobl (Austria)

15:30  
Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 2 | 14:30-15:45
WORKSHOP 47 - CAR-T DEVELOPMENT AND DESIGN

14:30  Regnase-1 KO B7-H3 CAR T cells for osteosarcoma: improved antitumor activity and potency to reprogram endogenous immune cells
WS47.1 Adeleye Adeshakin, Hao Shi, Phuong Nguyen, Scott Perry, Xiang Sun, Peipei Zhou, Jean-Yves Metais, Anil KC, Heather Sheppard, Liqing Tian, Deanna Langfitt, Jason Yustein, Giedre Krenciute, Christopher DeRenzo, Hongbo Chi, Stephen Gottschalk (USA)

14:40  FOXO1 enhances CAR T stemness, metabolic fitness and efficacy
WS47.2 Jack Chan, Christina Scheffler, Isabelle Munoz, Kevin Sek, Junyun Lai, Paul Beavis, Phillip Darcy (Australia)

14:50  Generating CRISPR/CAS9 armoured CAR- and TCR-T cells for the treatment of solid tumours
WS47.3 Phoebe Dunbar, Paul Beavis, Phillip Darcy, Amanda Chen, KahMin Yap (Australia)

15:00  MALT1-induced Roquin cleavage in T cells and CAR T cells is critical for anti-tumor immunity
WS47.4 Arlinda Negraschus, Anne Holtermann, Stephanie Edelmann, Luise Rupp, Franziska Füchsl, Angela Krackhardt, Marc Schmitz, Sebastian Kobold, Vigo Heissmeyer (Germany)

15:10  Learning the effect of CAR T cell design on single cell distributions
WS47.5 Alice Driessen, Rocio Castellanos Rueda, Sai Reddy, Marianna Rapsomaniki (Switzerland)

15:20  Microfluidic approach to study T and CAR-T confined and 3D cell migration
WS47.6 Jack Zhang Zhou, Carmen Oñate Salafranca, Nieves Movilla Meno, Maria José Gomez-Benito, Pedro Enrique Guerrero, Julian Pardo Jimeno, Jose Manuel García-Aznar (Spain)

15:30  Discussion
LIFFEY MEETING ROOM 3 | 14:30-15:45
WORKSHOP 48 - CYTOKINES AND CHEMOKYNES IN CANCER

14:30  IL-1R8 acts as an immune checkpoint in CD8+ T cells, limiting cytokine-induced anti-tumor immune responses
Domenico Supino1, Roberto Garuti1, Andrea Mariancini1, Chiara Perucchini1, Silvia Carnevale1, Andrea Ponzetta2, Federico Simone Colombo1, Elena Magrini1, Anna Rigatelli1, Luna Cordeiro Minute1, Sarah Mapelli1, Martina Molgara2, Francesco Scavello1, Irene Di Ceglie1, Giovanni Pezzone1, Laura Falcone1, Monica Casucci1, Enrico Lugli, Sebastien Jaillon1, Alberto Mantovani1,4, Cecilia Garlanda1 (*Italy, 2Sweden, 3USA, 4United Kingdom)

14:40  Investigating regulators of CXCL9 and CXCL10 expression to improve T cell infiltration and immunotherapy responses in solid tumors
Emily Derrick, Phillip Darcy, Paul Beavis (Australia)

14:50  Interferon epsilon limits ovarian cancer metastasis via regulation of peritoneal immune cells
Nicole Campbell, Linden J. Gearing, Jodee Gould, Georgie Wray-McCann, Nicole de Weerd, Paul Hertzog (Australia)

15:00  Targeting IL1R2+ tumor-infiltrating regulatory T cells with an anti-IL1R2 nanobody construct induces a strong anti-tumor effect in combination with anti-PD1 therapy
Sana Arnouk1, Daliya Kancheva1, Helena Van Damme1, Yvon Elkrim1, Jolien Van Craenenbroeck1, Els Lebegge1, Timo De Groof1, Aleksandar Murgaski1, Emile Clappaert1, Ayla Debraekeleer1, Jan Brughmans1, Mate Kiss1, Louis Boon2, Nadja Van Boxel1, Cecile Vincke1, Bruno Dombrecht1, Catelijne Stortelers1, Geert Raes1, Damya Laoui1, Jo Van Ginderachter1 (*Belgium, 2Poland)

15:10  Role of the atypical chemokine receptor ACKR2 in the immune response to tumors
Francesca Albano, Elisa Zaghen, Raffaella Bonecchi (Italy)

15:20  Targeting IL-38 triggers γδ T cell-dependent anti-tumor immunity
Priscila da Silva1, Javier Mora1, Svenja Wiechmann1, Mateusz Putyrski1, Javier Garcia-Pardo1,2, Xin You1, Aimo Kannt1, Andreas Ernst1, Bernhard Brüne1, Andreas Weigert1 (*Germany, 2Spain)

15:30  Discussion
TUESDAY, 3 SEPTEMBER 2024

ECOCEM ROOM | 14:30-15:45
WORKSHOP 49 - REGULATION OF ADAPTIVE IMMUNITY

14:30  
WS49.1  
T-cell receptor triggering requires inactivation of Lim kinase-1 by Slingshot-1 phosphatase  
Alvaro Gomez Moron, Sergio Alegre Gomez, Oscar Aguilar Sopena, Carlos Carrasco Padilla, Camila Scagnetti, Alicia Hernain Esteban, Rocio Ramirez-Muñoz, Raul Torres-Ruiz, Sandra Rodriguez Perales, Francisco Sanchez-Madrid, Noa Beatriz Martin-Cófreces, Pedro Roda Navarro (Spain)

14:40  
WS49.2  
Smoking changes adaptive immunity with persistent effects  
Violaine Saint-André¹, Bruno Charbit¹, Anne Biton¹, Anthony Bertrand¹, Florian Dubois¹, Vincent Rouilly¹, Celine Possemé¹, Maxime Rotival¹, Jacob Bergstedt¹,², Etienne Patin¹, Matthew Albert¹, Lluis Quintana-Murci¹, Darragh Duffy¹ (France, Sweden)

14:50  
WS49.3  
IFN-γ suppresses T follicular helper cell differentiation and antibody responses  
Eleonora Sala, Maria Nelli, Chiara Laura, Marta Mangione, Pietro Di Lucia, Elisa Bono, Leonardo Giustini, Giuliana Furiato, Davide Marotta, Chiara Malpighi, Eleonora Consolo, Cristian Beccaria, David Eyal, Cohen Merav, Giladi Amir, Amit Ido, Luca G. Guidotti, Matteo Iannacone, Mirela Kuka (Italy)

15:00  
WS49.4  
Tlr7 bi-allelism defines a transcriptionally and functionally distinct B cell subset  
Mélissa Nieucel, Charles-Henri Miquel, Léa Ferrayé, Anne-Laure Iscache, Magali Savignac, Julie Chaumeil, Jean-Charles Guéry (France)

15:10  
WS49.5  
Centromeric AA haplotype and -21 dimorphism in HLA-B T/T as powerful predictors for recurrent pregnancy loss  
Raquel Gil Laborda, Nabil Subhi-Issa, María Guzmán-Fulgencio, Juliana Ochoa Grullon, Silvia Sanchez Ramon, Miguel Fernandez Arquero (Spain)

15:20  
WS49.6  
Effect of rs2204985 polymorphism on human thymic T cell differentiation at the single cell level  
Camille Kergaravat, Agata Cieslak, Abad Flores José David, Salvatore Spicuglia, Vahid Asnafi, Emmanuel Clave, Antoine Toubert (France)

15:30  
Discussion
TUESDAY, 3 SEPTEMBER 2024

AUDITORIUM | 16:10-17:25
SYMPOSIUM - IMMUNOMETABOLISM
Chairs: Silvia Piconese (Italy), Guenter Weiss (Austria)

16:10  Immunometabolism of regulatory T cells in autoimmunity
Giuseppe Matarese (Italy)

16:30  Regulatory B cell immunometabolism
Claudia Mauri (United Kingdom)

16:50  Metabolic requirements of NK cells
David Finlay (Ireland)

17:10  Discussion

LIFFEY B | 16:10-17:25
SYMPOSIUM - B CELL - MUCOSA CROSSTALK
Chairs: Rudi Hendriks (The Netherlands), Eva Piano Mortari (Italy)

16:10  A spatially resolved atlas of the human lung characterizes a gland-associated immune niche
Kerstin Meyer (United Kingdom)

16:30  Metabolites and secretory immunoglobulins: messengers and effectors of the host-microbiota
      intestinal equilibrium
Stéphane Paul (France)

16:50  A self-sustaining layer of early-life-origin B cells drives steady-state IgA responses in the
      adult gut
Joan Yuan (Sweden)

17:10  Discussion
WICKLOW HALL 2 | 16:10-17:25
WORKSHOP 50 - INNATE IMMUNITY IN CANCER I

16:10
WS50.1  The memory phenotypic immunity of tumor-draining lymph nodes in ovarian carcinoma patients
Nachi Nathan, Philipp Paparoditis, Idan Milo, Leeat Keren, Adva Levy-Barda, Natalia Yanichkin, Oded Raban, Ram Eitan, Ziv Shulman (Israel)

16:20
WS50.2  Prior acute influenza infection drives a transient pro-tumoural state in the lungs
Ryan Devlin, Chiara Pirillo, Jack McCowan, Amy Shergold, Alberto Bravo-Blas, Sarwah Al-Khalidi, Leo Carlin, Ed Roberts (United Kingdom)

16:30
WS50.3  Dissecting macrophage diversity in cancer to unveil distinct contributions to therapeutic resistance
Marta Pandini, Divya Mishra, Marta Iovino, Giulia Marelli, Federica Portale, Roberta Carriero, Desiree Giuliano, Gianluca Basso, Gabriele De Simone, Paolo Kunderfranc, Piergiuseppe Colombo, Marcello Manfredi, Paolo Casale, Massimo Lazzeri, Diletta Di Mitri (Italy)

16:40
WS50.4  Role of JNK in chronic intestinal inflammation and its relationship with tumor development
Benigno Rivas-Pardo, Beatriz Martín Adrados, Raquel González-García, Chaobo Chen, Adela Solsona-García, Elena Martínez-Zamorano, Yolanda Campos-Martín, Manuel María Gómez del Moral, Francisco Javier Cubero, Eduardo Martínez-Naves (Spain)

16:50
WS50.5  Deciphering the myeloid cell landscape of neuroblastoma
Javiera Villar, Claudia Pasqualini, Margaux Gardet, Marco Moreira, Kevin Mulder, Dominique Valteau, Veronique Minard, Florent Ginhoux (France)

17:00
WS50.6  Tissue-resident macrophages and circulating monocytes might contribute to bacterial infection susceptibility of lung cancer patients
Francesco Palestra, Gina Memoli, Anne Lise Ferrara, Leonardo Cristinziano, Noemi Maria Giorgiano, Alfonso Fiorelli, Stefania Loffredo (Italy)

17:10  Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY HALL 2 | 16:10-17:25
WORKSHOP 51 - VIRAL IMMUNITY I

16:10
Preovotella timonensis enhances HIV-1 transmission by primary human blood dendritic cells
Marleen Y. van Smoorenburg, John L. van Hamme, Ester B.M. Remmerswaal, Julia L. Nerwinska, Celia Segui Perez, Karin Strijbis, Teunis B.H. Geijtenbeek (Netherlands)

16:20
Cross-reactive immune responses following concomitant immunization against flaviviruses
David Wullimann, Mira Akber, John Tyler Sandberg, Marcus Buggert, Hans-Gustaf Ljunggren (Sweden)

16:30
Longitudinal antibody and T cell response to Ebolavirus disease amongst a cohort of survivors in Guinea
Tom Tipton¹, Joseph Akoi Bore², Grace Hood¹, Saa Sabass Temessadouno², Emmanuel Sovogui², Saa 4 Kamano², Thomas Strecker², Piet Maes⁴, Yasmin Jiwa¹, Verena Kraehling³, Joseph Timothy¹, Mandy Kader Konde², N’faly Magassouba², Kim Fornace⁵, Miles Carroll¹ (¹United Kingdom, ²Guinea, ³Germany, ⁴Belgium, ⁵Singapore)

16:40
Single-cell profiling reveals signatures of protective immunity to human SARS-CoV-2 challenge
Lorenz Kretschmer, Kaylee Worlock, Lisa Dratva, Susan Jackson, Andrew Mawer, Krzysztof Polanski, Josephine Barnes, Masahiro Yoshida, Kerstin Meyer, Christopher Chiu, Helen McShane, Marko Nikolic, Sarah Teichmann (United Kingdom)

16:50
NK cell derived IFN-γ mobilizes free fatty acids from adipose tissue to promote B cell activation during viral infection
Mia Krapič¹, Inga Kavazovic¹, Sabine Helmrath², Bojan Polić¹, Tamara Turk Wensveen¹, Felix Wensveen¹ (¹Croatia, ²Germany)

17:00
β-glucan immunometabolic rewiring enhances anti-viral immunity via Interferon-dependant anti-viral training (IDAT)
Cian Horneck Johnston, Anna Ledwith, John McGrath, Hannah Prendeville, Jamie Murphy, Frederick Sheedy (Ireland)

17:10
Discussion
TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 1 | 16:10-17:25
WORKSHOP 52 - REGULATORY T CELLS IN HOMEOSTASIS AND DISEASE

16:10 Homeostatic balance of GUT resident pTregs and tTregs plays a pivotal role in maintaining bone health under post-menopausal osteoporotic conditions
Rupesh Kumar Srivastava, Asha Bhardwaj, Leena Sapra (India)

16:20 A novel aryl hydrocarbon receptor ligand inhibits the development of type 1 diabetes by enhancing the function of tolerogenic dendritic cells and regulatory T cells
Natalija Jonić¹, Ivan Koprivic¹, Christos Chatziigiannis², Antonis Tsailanis², Stavroula Kyrkou², Eleftheros Paraskevas Tzakos², Aleksandar Pavić¹, Mirjana Dimitrijević¹, Andjelina Jovanović¹, Milan B. Jovanović¹, Sérgio Marinho³, Inês Castro-Almeida³, Vesna Otašević¹, Pedro Moura-Alves³, Andreas Tzakos², Ivana Stojanović¹ (Serbia, Greece, Portugal)

16:30 The role of regulatory T cells in thymic regeneration
Andri Lemarquis, Anastasia Kousa, Kimon Argyropoulos, Jarrod Dudakov, Susan Dewolf, Marcel van den Brink (USA)

16:40 Conventional type 2 dendritic cells license FoxP3+ regulatory T cells in a Ccr4-dependent manner to suppress allergic inflammation
Jenny Mannion, Creel Ng Cashin, Nandini Samanta, Alexandra-Chloé Villani, Rod Rahimi (USA)

16:50 Regulatory T cells drive OPC differentiation independent of MHC-II
Jessica White¹, Alerie Guzman de la Fuente¹, Andrew Young¹, Rebecca Ingram¹, Yvonne Dombowsk¹, Denise Fitzgerald¹ (United Kingdom, Spain)

17:00 Revisiting the role of the transcription factor Foxo1 in the biology of thymic and peripheral regulatory T cell subsets
Léa Giraud, Aurélie Durand, Charlotte Guillou, Nelly Bonilla, Sonia Carvalho, Alexandra Lainé, Céline Charvet, Bruno Martin, Bruno Lucas, Cédric Auffray (France)

17:10 Discussion
LIFFEY HALL 1 | 16:10-17:25
WORKSHOP 53 - T CELLS IN AUTOIMMUNE AND INFLAMMATORY DISEASE

16:10
WS53.1
The interplay between innate Immunity mechanisms in advancing neurodegeneration
Elena Zenaro, Enrica Caterina Pietronigro, Bruno Santos-Lima, Eleonora Terrabuio, Anna Slanz, Aferdita Suli, Somayehsadat Ghasemi, Nicola Lopez, Beatrice D'Ulivo, Gabriele Angelini, Alessandro Bani, Ermanna Turano, Matteo Calgaro, Gabriele Tosadori, Nicola Vitulo, Davide Risso, Sara Cremona, Francesca Di Norscia, Rajasekar Nagarajan, Vittorina Della Bianca, Barbara Rossi, Giulia Iannoto, Monica Castellucci, Bruno Bonetti4, Gabriela Constantin (Italy)

16:20
WS53.2
Post-translational modification of LL37, the autoantigen of psoriasis, polarize responder CD4-T-cells towards an alternative T helper phenotype
Roberto Lande, Anna Mennella, Giuseppe Ocone, Rebecca Favaro, Elisabetta Botti, Mario Falchi, Antonio Costanzo, Loredana Frasca (Italy)

16:30
WS53.3
Characterising effector T-cell responses to novel autoantigens in rheumatoid arthritis
Elizabeth Pook, Kathryn Steel, Sarah Ryan, Carl Coyle, Esperanza Perucha, Leonie Taams, Andrew Cope (United Kingdom)

16:40
WS53.4
Caveolin-1/PPARα axis restrains pathogenic T follicular helper cell response in primary Sjögren’s syndrome
Xiang Lin (Hong Kong)

16:50
WS53.5
Rapamycin rescues loss-of-function in blood-brain barrier-interacting regulatory T cells
Paulien Baeten1, Ibrahim Hamad1, Cindy Hoeks1, Michael Hiltensperger1, Bart Van Wijmeersch2, Veronica Popescu2, Lilian Aly1, Veerle Somers1, Thomas Korn1, Markus Kleinewietfeld1, Niels Hellings1, Bieke Broux1 (1Germany, 2Belgium)

17:00
WS53.6
The effects of CXCR5, PD-1 and ICOS molecules of helper T Cells on B cell responses and the implications in myasthenia gravis
Merve Cebi, Arman Çakar, Hacer Durmuş, Yeşim Parman, Güher Saruhan Direskeneli (Turkey)

17:10
Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 2 | 16:10-17:25
WORKSHOP 54 - MICROBIOTA IN HEALTH AND DISEASE

16:10  iNKT cell immunomodulation and mucosal healing by microbiota-derived lactate
WS54.1  Federica Perillo, Chiara Amoroso, Alberto Baeri, Flavio Caprioli, Federica Facciotti, Francesco Strati (Italy)

16:20  Microbial-derived metabolites promote NKT22 responses in colitis associated colorectal cancer patients
WS54.2  Federica Perillo, Alberto Baeri, Chiara Amoroso, Flavio Caprioli, Francesco Strati, Federica Facciotti (Italy)

16:30  Neutrophils mediate protection against colitis and carcinogenesis by controlling bacterial invasion and driving IL-22 production by γδT cells
WS54.3  Silvia Carnevale¹, Andrea Ponzetta¹, Anna Rigatelli¹, Roberta Carriero, Simone Puccio¹, Domenico Supino¹, Giovanna Grieco¹, Piera Molisso¹, Irene Di Ceglie¹, Francesco Scavello¹, Chiara Perucchini¹, Fabio Pasqualini¹, Camilla Recordati¹, Claudio Tripodo¹, Beatrice Belmonte¹, Andrea Mariancini¹, Paolo Kunderfranco¹, Giuseppe Sciumè¹, Enrico Lugli¹, Eduardo Bonavita¹, Elena Magrini¹, Cecilia Garlanda¹, Alberto Mantovani¹,², Sebastien Jaillon¹ (Italy, ²United Kingdom)

16:40  Differential effects on fecal microbiota, gut immunity and vaccine response conveyed by a natural environment vs. co-housing with wild or pet store mice
WS54.4  Henriette Arnesen¹, Signe Birkeland¹, Harriet Stendahl¹, Klaus Neuhaus², Ryan Langlois³, David Masopust³, Harald Carlsen¹, Preben Boysen¹ (¹Norway, ²Germany, ³USA)

16:50  Integrating functional metagenomics to decipher microbiome-immune interactions
WS54.5  Puspendu Sardar, Amelia Soderholm, Sarah Whiteside, Benjamin Beresford-Jones, Paula Kuo, Rahul Roychoudhuri, Virginia Pedicord (United Kingdom)

17:00  Gut microbiota and maternal immune transfer at birth precede pre-allergic clinical outcome
WS54.6  Remy Villette¹, Djelika Traore¹, Elise Dhilly¹, Marta Schuhmacher², Isabella Annesi-Maesano¹, Martin Larsen¹ (¹France, ²Spain)

17:10  Discussion
TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 16:10-17:25
WORKSHOP 55 - ADOPTIVE CELL THERAPY FOR CANCER AND INFECTIOUS DISEASE

16:10  Identification of serial killing natural killer cells
WS55.1 Jens Niemann¹, Maren Claus¹, Vanna Imsirovic², Carsten Watzl! (Germany, ²Croatia)

16:20  A novel CD5-based adoptive cell transfer therapy for systemic fungal infection
WS55.2 María Velasco-de Andrés, Cristina Català, Laura Carrillo-Serradell, Violeta Planells-Romeo, Marta Español-Regó, Lorena Pérez-Amill, Pedro Puerta-Alcalde, Carolina García-Vidal, Beatriz Martín-Antonio, Francisco Lozano (Spain)

16:30  Dual modulation of cytotoxic and checkpoint receptors tunes the efficacy of Delta One T cells against colorectal cancer
WS55.3 Rafael Blanco Domínguez, Leandro Barros, Mariana Carreira, Sofia Mensurado, Bruno Silva-Santos (Portugal)

16:40  Engineering NK cell immunotherapy to optimise liver homing and T cell regulation
WS55.4 Mariana Diniz, Yiya Zhong, Stephanie Kucykowicz, Daniel Brown Romero, Jessica Davies, Joseph McDowell, John Counsell, Mala K. Maini (United Kingdom)

16:50  Development of γδ T cell immunotherapy against glioblastoma
WS55.5 Gabriel Marseres1,2, Colline Gentil2, Victor Bigot2, Maxime Courant2, Valerie Prouzet-Mauleon2, Vincent Pitard2, Atika Zouine2, Sofia Mensurado3, Claire Larrieu2, Béatrice Turcq2, Bruno Silva-Santos3, Olivier Mollier2, Julien Engelhardt2, Lionel Couzi2, Thomas Daubon2, Julie Dechanet-Merville2 (1Netherlands, 2France, 3Portugal)

17:00  Ethanol-treated human fibroblasts and their extracellular vesicles modulate TCD4+ lymphocytes
WS55.6 Daniella Figueiredo, Ariane Fidelis Busso-Lopes, Tatiane De Rossi, Rodrigo Gomes Bernardo Cruz, João Silva Vitor Ormonde, Jamile de Oliveira Sá, Larissa Tinó de Carvalho Silva, Adriana Franco Paes Leme (Brazil)

17:10  Discussion
WEDNESDAY, 4 SEPTEMBER 2024

AUDITORIUM | 08:30-09:45
SYMPOSIUM - IMMUNE REGULATION AND TOLERANCE
Chairs: Silke Appel (Norway), Dominik Filipp (Czech Republic)

08:30 AIRE-mediated central tolerance
Ludger Klein (Germany)

08:50 Targeted deletion of self reactive T cells
Dmitriy Chudakov (Czech Republic)

09:10 AIRE and immune tolerance
Pärt Peterson (Estonia)

09:30 Discussion

LIFFEY B | 08:30-09:45
SYMPOSIUM - SEX DIFFERENCES IN IMMUNE RESPONSES
Chairs: Darragh Duffy (France), Jean-Charles Guéry (France)

08:30 Consequences of sex differences in type I IFN responses for the regulation of antiviral immunity
Marcus Altfeld (Germany)

08:50 Sexual dimorphism in immunity and ageing
Jennifer C. Regan (United Kingdom)

09:10 Sex differences in immune response across human populations in health and disease
Mihai Netea (The Netherlands)

09:30 Discussion

LIFFEY A | 08:30-09:45
SYMPOSIUM - NOVEL APPROACHES TO UNDERSTAND IMMUNE SYSTEM DIVERSITY
Chairs: Reinhold Foerster (Germany), Doris Wilflingseder (Austria)

08:30 Mapping the temporal and spatial dynamics of the human immune system
Roser Vento-Tormo (United Kingdom)

08:50 Innovative models to enhance generation of neutralizing antibodies
Facundo Batista (USA)

09:10 Single-cell genomics to study developmental immunology
Cecilia Dominguez (Italy)

09:30 Discussion
08:30 Tolerogenic presentation of an alpha-synuclein antigen on a chimeric major histocompatibility complex class Ib molecule induces regulatory T cells and confers neuroprotection in an animal model for Parkinson’s disease

Valentin Bruttel, Jingjing Wu, Fadhil Ahsan, Ann-Kathrin Karl, Shriya Mamatha Jayaram, Heike Wecklein, Maja Heubner, Daniela Brünnert, Rhonda McFeder, Jörg Wischhusen, Chi Wang Ip (Germany)

08:40 Coenzyme A fueling with pantethine limits autoreactive T cell pathogenicity in experimental neuroinflammation

Elena Ellmeier¹, Tommaso Carlucci², Simona L. Budui², Simone D. Bach², Silvia Dusi², Julia Walter¹, Alyssa Schnabl¹, Cansu Tafrali¹, Rina Demjaha¹, Michael Khalil¹, Natalie Bordag¹, Gabriele Angelini¹, Eleonora Terrabuio¹, Elena Zenaro¹, Carlo Laudanna², Barbara Rossi², Gabriela Constantin², Stefano Angiari¹ (Austria, Italy)

08:50 Role of the combination of serum neurofilaments light chains and IgM bands in the prediction of progression in multiple sclerosis

José Luis Veiga, Enric Monreal, Alexander Rodero, Susana Sainz de la Maza, Mercedes Espiño, Raquel Sainz, Noelia Villarrubia, Juan Luis Chico, Fernando Rodríguez, Lucienne Costa-Frossard, Luisa María Villar (Spain)

09:00 Size matters; particle size regulates the induction of anti-inflammatory responses and immune tolerance via αvβ3 mechano-sensor engagement

Roisin Lynch, Jorge Huete-Carrasco, Ed Lavelle (Ireland)

09:10 Single cell sequencing of antigen-specific autoreactive B cells in MuSK myasthenia gravis

Laurent Paardekooper¹, Jessica van Bokkum¹, Yvonne Fillié-Grijpma¹, Theresa Kissel², Susan Kloet³, Martijn Tannemaat¹, Jan Verschuuren¹, Silvère van der Maarel¹, Maartje Huijbbers¹ (Netherlands, Germany)

09:20 Microbiota-dependent T-cell response to α-synuclein-derived antigens triggers motor and non-motor symptoms associated to Parkinson’s disease

Rodrigo Pacheco, Zulmary Manjarres, Valentina Ugalde, Carolina Prado, Ornella Chovar, Margarita Calvo (Chile)

09:30 Discussion
LIFFEY HALL 2 | 08:30-09:45
WORKSHOP 57 - RESPIRATORY INFLAMMATION

08:30  Recruited atypical Ly6G+ macrophages license alveolar regeneration after lung injury
WS57.1 Cecilia Ruscitti, Joan Abinet, Pauline Marechal, Margot Meunier, Constance de Meeüs d’Argenteuil, Domien Vanneste, Pierre Janssen, Marc Thiry, Fabrice Bureau, Benjamin Dewals, Mutien-Marie Garigliany, Akeila Bellahcene, Coraline Radermecker, Thomas Marichal (Belgium)

08:40  Targeting neutrophil extracellular traps to reduce immunopathology in tuberculosis
WS57.2 Julia Kutschenreuter, Ramla Cusman, Keira Skolimowska, Jon S. Friedland, Deborah L W Chong (United Kingdom)

08:50  Elevated matrix-metalloproteinase and pro-inflammatory cytokine activity due to helminth co-infection drives pulmonary tissue destruction in tuberculosis
WS57.3 Maria Cristina Loader1,2, Sory Vasquez Alves2, Manuela Verastegui2, Robert H. Gilman2,3, Jon S Friedland1 (United Kingdom, Peru, USA)

09:00  Single cell RNA sequencing reveals endothelial cell killing and resolution pathways in experimental malaria-associated acute respiratory distress syndrome
WS57.4 Emilie Pollenus, Hendrik Possemiers, Sofie Knoops, Fran Prenen, Leen Vandermosten, Chloë Thienpont, Saeed Abdurahman, Sofie Demeyer, Jan Cools, Gianluca Matteoli, Jeroen Vanoirbeek, Greetje Vande Velde, Philippe Van den Steen (Belgium)

09:10  Identification of specific monocyte epigenetic signatures in sarcoidosis and tuberculosis patients
WS57.5 Marie Robert, Nader Yatim, Tom Dott, Arthur Mageau, Florian Dubois, Nicolas Charles, Tiphaine Goulenok, Violaine Saint-André, Karim Sacre, Darragh Duffy (France)

09:20  Clinically severe chronic obstructive pulmonary disease patients are characterised by a distinct immune lung cell signature
WS57.6 Natalie Bordag1, Katharina Jandl1, Ayu Hutami Syarif1, Juergen Gindhuber1, Diana Schnoegl1, Ayse Ceren Mutgan1, Konrad Hoetzenecker1, Panja Böhm1, Vasile Foris1, Katarina Zedery, Slaven Crnkovic1,2, Francesca Polverino3, Grazyna Kwapiszewska1,2, Leigh Marsh1 (Austria, Germany, USA)

09:30  Discussion
WEDNESDAY, 4 SEPTEMBER 2024

WICKLOW HALL 1 | 08:30-09:45
WORKSHOP 58 - T CELL REGULATION AND FUNCTION II

08:30 The RNA-binding proteins TIA1 and TIAL1 control T-cell activation and
germinal centre formation
Trang-My Nguyen, Orlane Maloudi, Mailys Mouysset, Ines Claire Osma-Garcia, Dunja
Capitan-Sobrino, Yann Aubert, Manuel Diaz-Munoz (France)

08:40 CD4-Lck signalling activates CDK1 to enhance nuclear transport in T cells
Dejan Mesner, Matt Whelan, Maitreyi Shivkumar, Clare Jolly (United Kingdom)

08:50 NRK1-dependent cytoplasmic NAD/H synthesis determines CD4+ T
cell inflammatory function and survival
Myah Ali, Victoria Stavrou, Nancy Gudgeon, Emma Bishop, Taylor Fulton-Ward,
Bethany Turley, Silke Heising, Sally Mohamed, Sofia Hain, Lorna George, Bryan
Marzullo, Minghao Deng, Daniel Tennant, Craig Doig, Gareth Lavery, Rebecca
Drummond, Sarah Dimeloe (United Kingdom)

09:00 Extracellular ATP induces aging-associated traits in CD4 T Cells
Sonja Rittchen, Anja Zdouc, Stefano Angiari, Johannes Fessler (Austria)

09:10 Spatial and functional association of CD69 leukocyte activation
receptor with Peroxiredoxin-1
María Jiménez-Fernández, Diego Calzada-Fraile, Danay Cibrián, Hortensia De la
Fuente, Francisco Sanchez-Madrid (Spain)

09:20 A novel interaction between E-cadherin and PD-1 leads to inhibition of
T cell function
Puja Kumari, Dibyendu Samanta, Gayatri Mukherjee (India)

09:30 Discussion
LIFFEY HALL 1 | 08:30-09:45
WORKSHOP 59 - T CELLS IN INFLAMMATORY AND INFECTIOUS DISEASES

08:30
WS59.1 Blood brain barrier transmigration triggers inflammasome activation in Th lymphocytes during neuroinflammation
Gayel Duran¹, Lisa Schuetz¹,², Janne Verreycken¹, Paulien Baeten¹, Baharak Hosseinkhani¹, Sam Duwe¹, Jelle Hendrix¹, Ilse Dewachter¹, Niels Hellings¹, Bieke Broux¹ (Belgium, Netherlands)

08:40
WS59.2 CD29hi CD99hi T cells are upregulated in primary Sjögren’s syndrome
Ayibaota Bahabayi, Zhonghui Zhang, Yiming Gao, Danni Liu, Pingzhang Wang, Chen Liu (China)

08:50
WS59.3 SARS-CoV-2-specific antibody and T-cell responses after COVID-19 BA.1 bivalent boosting
Barbara Kronsteiner-Dobramysl, Melissa Govender, Chang Liu, Eleanor Barnes, Thushan de Silva, Christopher Duncan, Victoria Hall, Susan Hopkins, Katie Jeffery, Rebecca Payne, Alex Richter, Gavin Screaton, Lance Turtle, Paul Klenerman, Miles Carroll, Susanna Dunachie, on behalf of the PITCH Consortium+ (United Kingdom)

09:00
WS59.4 SIMON says: Using machine learning to understand correlates of protection for SARS-CoV-2 vaccines in non-human primate challenge studies
Caolann Brady¹, Tom Tipton¹, Oliver Carnell¹, Stephanie Longet¹,², Karen Gooch¹, Yper Hall¹, Francisco J. Salguero¹, Adriana Tomic³, Miles Carroll¹ (United Kingdom, France, USA)

09:10
WS59.5 Local skin enrichment of chemical-specific T cells as strategy for causative allergen identification
Caterina Curato¹, Uwe Paasch¹, Sonja Molin²,³, Andreas Luch¹, Ines Schreiver¹, Katherina Siewert¹ (Germany, Algeria, Canada)

09:20
WS59.6 Single-cell sequencing reveals disrupted skin tissue resident memory T cell dynamics in allogeneic hematopoietic stem cell transfer and acute graft-versus-host disease
Laura Marie Gail, Florian Deckert, Luisa Unterluggauer, Ruth Dingelmaier-Hovorka, Johanna Strobl, Lisa Kleissl, Bärbel Reininger, Anna Redl, Lisa Ellen Shaw, Matthias Farlik, Werner Rabitsch, Georg Stary (Austria)

09:30 Discussion
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LIFFEY MEETING ROOM 2 | 08:30-09:45
WORKSHOP 60 - MACROPHAGES IN INFECTIOUS AND AUTOIMMUNE DISEASES

08:30
WS60.1 Loss of synovial tissue macrophage homeostasis precedes rheumatoid clinical onset
Megan Hanlon1, Conor Smith1, Mary Canavan1, Nuno Neto1, Qingxuan Song2, Myles Lewis3, Aoife O’Rourke1, Órla Tynan1, Brianne Barker1, Phil Gallagher1, Ronan Mullan1, Conor Hurson1, Barry Moran1, Michael Monaghan1, Costantino Pitzalis3, Jean Fletcher1, Sunil Nagpal3, Douglas Veale1, Ursula Fearon1 (Ireland, 2USA, 3United Kingdom)

08:40
WS60.2 Long-lasting protection against listeriosis and peritonitis by trained immunity
Charly Gilbert, Tiia Snäkä, Maelick Brochut, Didier Le Roy, Thierry Roger (Switzerland)

08:50
WS60.3 Rheumatoid arthritis and psoriatic arthritis circulatory onocytes display metabolic changes, with dysfunctional circadian rhythm and mitochondrial dynamics
Alyssa Gilmore, Success Amaechi, Megan Hanlon, Dumitru Anton, Carl Orr, Viviana Marzaioli, Douglas Veale, Ursula Fearon (Ireland)

09:00
WS60.4 Macrophage reprogramming in chronic organ disease - a lesson from the liver
Felix Heymann, Moritz Peiseler, Yuting Wang, Paul Horn, Leon Haas, Tianjiao Zhang (Germany)

09:10
WS60.5 Functional heterogeneity of tissue resident macrophages of distinct origin during polymicrobial sepsis
Stephan Culemann, Stavroula Litsiou, Claudia Waskow (Germany)

09:20
WS60.6 Immunological tools for the prediction of poor outcome in oligoarthritis
Federica Raggi, Simone Pelassa, Chiara Rossi, Francesca Antonini, Martina Bartolucci, Chiara Artale, Federica Briasco, Silvia Maria Orsi, Marco Gattorno, Angelo Ravelli, Alessandro Consolaro, Maria Carla Bosco (Italy)

09:30 Discussion
LIFFEY MEETING ROOM 3 | 08:30-09:45
WORKSHOP 61 - CANCER IMMUNE REGULATION AND EVASION

08:30  Exploring the impact of CD300e in colorectal cancer: insights from obesity-related murine models
Stefania Vassallo, Annica Barizza, Sofia Giacometti, Sara Coletta, Marina de Bernard, Gaia Codolo (Italy)

08:40  Type 2 innate lymphoid cells fuel breast cancer development by inhibiting anti-cancer immunity
Pascal Naef, Jacob I. Rodriguez, Hannah Savage, Isam Adam, Armando S. Villalta, Devon A. Lawson, Kai Kessenbrock (USA)

08:50  IL4I1 expression in macrophages leads to their pro-tumor profile and T-cell exhaustion in the course of tumor progression
Malvina Seradj, Saniya Kari, Anna Llebaria-Fabrias, Renée Lengagne, Armelle Blondel (France)

09:00  TNFR2 expression by Tregs is critical for suppressing tumor immunity by regulating inflammatory cytokines
Morgane Hilaire, Maryam Koshravi, Angélina Mimoun, Emilie Ronin, Wilfrid Richer, Léonie Cagnet, Sahar Kassem, Alexandre Boissonnas, Elisa Bonnin, Eliane Piaggio, Benoit L. Salomon (France)

09:10  A second tumor escape system mediated by HHLA2: Biological and therapeutic implications on effector cells
Raphaëlle Leau, Mélanie Néel, Veronique Daguin, Fabienne Haspot (France)

09:20  Investigating the Immunomodulatory role of epithelial YAP/TAZ in gastric metaplasia
Jacqueline Sung, Zhaoping Ju, Alex Gregorieff, Samantha Gruenheid (Canada)

09:30  Discussion
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AUDITORIUM | 11:15-12:30
SYMPOSIUM - DIVERSITY OF INNATE LYMPHOID CELLS
Chairs: Dominique Bullens (Belgium), Ivana Stojanović (Serbia)

11:15  Inflammation triggers ILC3 patrolling of the intestinal barrier
James Di Santo (France)

11:35  ILC heterogeneity in inflammatory conditions
Chiara Romagnani (Germany)

11:55  ILC heterogeneity in cancer
Guido Ferlazzo (Italy)

12:15  Discussion

LIFFEY B | 11:15-12:30
SYMPOSIUM - HOST-MICROBE INTERACTIONS
Chairs: Miloslav Kverka (Czech Republic), Irma Schabussova (Austria)

11:15  Why whooping cough is back and how does its agent interact with airway mucosa
Peter Sebo (Czech Republic)

11:35  Immune-microbe interactions early in life
Petter Brodin (Sweden)

11:55  Microbiota and psychiatric disorders
John Cryan (Ireland)

12:15  Discussion
LIFFEY A | 11:15-12:30
WORKSHOP 62 - T CELL REGULATION AND FUNCTION III

11:15  Roles and functions of the Foxk1 transcription factor to control T cell responses
Lea Baugé, Valentin Mellado, Alice Clément, Anne Gonzalez de Peredo, Sven Enerback, Bernard Malissen, Guillaume Voisinne, Romain Roncagalli (France, Sweden)

11:25  Characterization of DNA methylation dynamics during human thymic T lymphocyte development
Frederik Hamm, Marcel Finke, Emilie Coppin, Anne Schulze, Mingxing Yang, Abdulrahman Salhab, Gilles Gasparoni, Jörn Walter, Claudia Waskow, Julia K Polansky (Germany)

11:35  Not so TOP after all: cytokine 3’untranslated regions dictate responses to mTOR-mediated translation in human T cells
Anouk Jurgens, Branka Popovic, Josephine Zwijnen, Floris Van Alphen, Arjan Hoogendijk, Aurelie Guislain, Monika Wolkers (Netherlands)

11:45  A truncated LAT isoform lacking the 5 distal tyrosines still allows the development of gamma delta T cells
Mikel Arbulo-Echevarria, Luis M. Fernandez-Aguilar, Inmaculada Vico-Barrancó, Isaac Narbona-Sanchez, Elke Kurz, Bernard Malissen, Michael L. Dustin, Enrique Aguado (Spain, United Kingdom, France)

11:55  ISG20L2 is a novel RNA-based regulator of T cell function
Ana Rodríguez Galán, Sara G Dosil, Lola Fernández-Messina, Francisco Sanchez-Madrid (Spain)

12:05  S1P-signaling inhibition suppresses Th1-like Treg generation by rewiring mitochondrial metabolism
Rachel Coulombeau, Claudia Selck, Nicolas Giang, Allison Maher, Richard Nicholas, Margarita Domínguez-Villar (United Kingdom)

12:15  Discussion
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WICKLOW HALL 2 | 11:15-12:30

WORKSHOP 63 - GENETIC AND ENVIRONMENTAL TRIGGERS OF AUTOIMMUNITY

11:15

WS63.1

Unraveling the enigmatic role of atypical ANCAss: a novel pathophysiological mechanism in ulcerative colitis - Targeting neutrophil extracellular traps

Erick Arturo Mendieta Escalante, Daniela Parada Venegas, Arno Bourgonje, Marcela Hermoso, Klaas Nico Faber, Gerard Dijkstra (Netherlands)

11:25

WS63.2

EBV infection accumulates T-bet+ B cells that migrate to the CNS and cause MS-like lymphocyte infiltration in brain tissue of humanized mice

Fabienne Läderach, Ioannis Piteros, Lisa Bremer, Lisa Rieble, Sandra Schmid, Christian Münz (Switzerland)

11:35

WS63.3

Human genetic and environmental factors affect type I interferon protein production in a pathway specific manner

Jamie Sugrue, Vincent Bondet, Elizabeth Maloney, Lea Deltourbe, Anthony Bertrand, Violaine Saint-André, Florian Dubois, Chloe Albert-Vega, Etienne Patin, Molly Ingersoll, Luís Quintana-Murci, Darragh Duffy (France)

11:45

WS63.4

The T cell response against the EBV is shaped by HLA risk alleles in multiple sclerosis

Sanne Reijm, Jasper Rip, Jamie van Langelaar, Annet Wierenga-Wolf, Marie-Jose Melief, Harm de Wit, Yvonne Müller, Joost Smolders, Marvin van Luijn (Netherlands)

11:55

WS63.5

Integration of in silico analysis and in vitro functional analysis reveals tissue factor pathway inhibitor 2 (TFPI2) as a master transcriptional regulator and potential target to impede infliximab resistance in adult ulcerative colitis patients

Hannah Fitzgerald1, Flavia Genua1, Ololade Lawal1, Alexander Kel2, Miriam Tosetto1, Roisin Stack1, Kieran Sheahan1, Gregory Yochum3, Glen Doherty1, Sudipto Das1 (Ireland, 2Germany, 3USA)

12:05

WS63.5

Maternal autoimmunity drives autoreactivity and potential neuropsychiatric sequelae in offspring independently of genetic factors

Sofie Fonager1, Gudrun Winther1, Yamira Weber1, Thomas R. Wittenborn1, Lisbeth Jensen1, Lisbeth Ahm Hansen1, Michael Carroll2, Yonglun Luo3, Lin Lin3, Søren Egedal Degn1 (Denmark, 2USA, 3China)

12:15

Discussion
LIFFEY HALL 2 | 11:15-12:30
WORKSHOP 64 - REGULATORY T CELLS: DIFFERENTIATION AND REGULATION

11:15
WS64.1
Selective ablation of thymic and peripheral Foxp3+ regulatory T cell development
Dimitra Maria Zevla, Rikke Malmkvist, Carlos Alejandro Bello Rodríguez, Pablo Úndurraga, Emre Kirgin, Marie Boernert, David Voehringer, Olivia Kershaw, Susan Schlenner, Karsten Kretschmer, Acelya Yilmazer (Germany)

11:25
WS64.2
The activation and functional states of TIGIT+CD226+ regulatory T cells (Tregs) and their role in autoimmunity
Meryl Attrill, Diana Shinko, Rosemarie Ford, Vicky Alexiou, Melissa Kartawinata, CHARMS study, JIAP study, Lucy R Wedderburn, Anne M Pesenacker (United Kingdom)

11:35
WS64.3
A binary Cre transgenic approach to study the differentiation and function of tissue-Treg cells
Philipp Stüve, Lisa Schmidleithner, Stefanie Brey, Thomas Winkler, Thomas Hehlhans, Markus Feuerer (Germany)

11:45
WS64.4
CREB regulates Foxp3+ST-2+ Tregs with enhanced IL-10 production
Sudheendra Hebbar Subramanyam1, Judit Hriczko1, Thomas Look1, Tim Clarner1, Eva Verjans1, Svenja Böll1, Christopher Neullens1, Ivan Costa1, Jochen Huehn1, Lin Gan1, Angela Schippers1, Stefan Flöß1, Tobias Bopp1, Martin Zenke1, Bart Lambrecht2, Rudi Beyaert2, Hermann Wasmuth1, Ron Winograd1, Norbert Wagner1, Kim Ohl1, Klaus Tenbrock1,3 (1Germany, 2Belgium, 3Switzerland)

11:55
WS64.5
Tachykinin receptor 1 antagonism promotes the Foxp3+ regulatory CD4 T cells and controls gut inflammation and autoimmunity
Amrita Mishra, Surojit Karmakar, Namrita Halder, Mir Ahmad Habib, Dharmendra Kumar, Girdhari Lal (India)

12:05
WS64.6
Ontogeny and functions of peripheral regulatory CD4 T cells
Sonia Carvalho, Léa Giraud, Benjamin Saintpierre, Franck Letourneur, Aurélie Durand, Jacques Dutrieux, Bruno Lucas, Cédric Auffray (France)

12:15
Discussion
WEDNESDAY, 4 SEPTEMBER 2024

WICKLOW HALL 1 | 11:15-12:30
WORKSHOP 65 - ADOPTIVE T CELL THERAPY

11:15  Advancing CD8+ Treg cell therapy to the clinic for the treatment of kidney transplanted patients
WS65.1 Séverine Bézie, Mariane Lucazeau, Soraya Saiagh, Marie-Christine Leveque, Cecile Braudeau, Mina Benjelloun Zahar, Florence Vrignaud, Cecile Guillot Gueguen, Emmanuelle Papuchon, Béatrice Clemenceau, Regis Josien, Gilles Blanco, Diego Cantarovich, Ignacio Anegon, Carole Guillonneau (France)

11:25  Use of nonengineered multiantigen specific Tissue-resident memory T cells for adoptive cellular therapy in gastrointestinal patients with liver metastases
WS65.2 Emilien Laloy, Jean Rene Pallandre, Syrine Abdeljaoued, Christophe Borg (France)

11:35  Chasing antigen-specific T cells with high avidity (CATCH)
WS65.3 Kalliopi Zampeta, Larissa Henze, Andreas Thiel, Lucie Loyal (Germany)

11:45  Optimized platform for the production of personalized T cells with transgenic TCRs for a chronic lymphocytic leukemia therapy development
WS65.4 Andrea Aran, Andrea Alonso, Roberto Martínez, Iván García-Loza, Berta Casanovas Albertí, Alejandro Ramírez-Chacón, E. Azucena González Navarro, Manel Juan Otero (Spain)

11:55  A folate receptor alpha specific, CD28/CD40-based chimeric costimulatory antigen receptor (CoStAR™), enhances anti-tumour activity of T cells and tumour infiltrating lymphocytes
WS65.5 Milena Kalaitsidou, Owen Moon, Leyuan Bao, Mark Dudley, Robert Hawkins, Gray Kueberuwa, John Stephen Bridgeman (USA)

12:05  Adoptive PD1+ tumor-infiltrating lymphocyte therapy for metastatic TNBC: production results of the safety run-in phase of the TILS001 clinical trial
WS65.6 E. Azucena González Navarro, Marta Español-Rego, Laura Angelats, Marta Santiesteban, Cristina Saura, Eva Ciruelos, Luis Alvarez-Vallina, Juan Jose Lasarte, Alena Gros, Mafalda Olivera, Pablo Tolosa, Libertad Heredia, Daniel Jiménez, Catherina De Guzman, Fara Brasó-Maristany, Lorea Villanueva, Jordi Canes, Tomas Pascual, Manel Juan Otero, Aleix Prat (Spain)

12:15  Discussion
LIFFEY HALL 1 | 11:15-12:30
WORKSHOP 66 - CANCER IMMUNE EVASION AND RESISTANCE

11:15 Identification of self-reactive T follicular helper cells in ovarian cancer patients
*Philipp Paparoditis, Nachi Nathan, Avital Sarusi-Portuguez, Liat Stoler-Barak, Adva Levy-Barda, Roei Mazor, Ronnie Blecher, Revital Ronen, Natalia Yanichkin, Oded Raban, Ram Eitan, Ziv Shulman (Israel)*

11:25 Probing tumour immune evasion via local immune profiling with fine needle aspirates in hepatocellular carcinoma (HCC)

11:35 CX3CR1 loss by CD8 tumor infiltrating lymphocytes mediates immune evasion in colorectal cancer
*Ugo Chartral¹, Eric Hervouet¹, Maxime Fredon¹, Pauline Martin¹, Sylvain Simon², Paul Peixoto¹, Adeline Bouard¹, Syrine Abdeljaoued², Kathleen Ducoin¹, Nathalie Labarrièrè¹, Yann Godet¹, Angélique Viennot¹, Christophe Borg¹, Marie Kroemer¹, Romain Loyon¹ (France,²USA)*

11:45 IFN-γ predisposes acute myeloid leukemia to therapy resistance
*Bianca E Silva, Alison Daubry, Charline Faville, Mégane Jassin, Frédéric Baron, Grégory Ehx (Belgium)*

11:55 Lack of TREM2 during anti-PD1 therapy reprograms intestinal macrophages and microbiota to enhance tumor rejection
*Martina Molgora, Blanda Di Luccia, Darya Khantakova, Natalia Jaeger, Hao-Wei Chang, Rafael Czepielewski, Beth Helmink, Emily Onufer, Jose Fachi, Bishan Bhattarai, Tihana Trsan, Patrick Rodrigues, JinChao Hou, Jennifer Bando, Cristiane Secca da Silva, Marina Cella, Susan Gilfillan, Robert Schreiber, Jeffrey Gordon, Marco Colonna (USA)*

12:05 Liver metastases of colorectal carcinoma contain different subsets of tissue resident memory CD8 lymphocytes correlated with distinct risk of relapse following surgery and mediate immune checkpoint responses
*Syrine Abdeljaoued, Emilien Laloy, Jean Rene Pallandre, Marie Kroemer, Laurie Spehner, Adeline Bouard, Virginie Mougey, Ugo Chartral, Angélique Vienot, Franck Monnien, Alexandre Doussot, Romain Loyon, Christophe Borg (France)*

12:15 Discussion
LIFFEY MEETING ROOM 2 | 11:15-12:30
WORKSHOP 67 - GLYCOSYLATION

11:15  Investigating the effects of targeting stromal cell sialylation on the tumour immune microenvironment in colorectal cancer
WS67.1 Aoise O'Neill¹, Hannah Egan¹, Norashikin Zakaria¹, Oliver Treacy¹, Sean Hynes¹, Aisling Hogan¹, Jenny Che², Li Peng², Aideen Ryan¹ (Ireland, ²USA)

11:25  N-glycosylation shapes the thymic differentiation of gd T-cells
WS67.2 Rúben Pinheiro, Beatriz Santos-Pereira, Eduarda Leite-Gomes, Inês Alves, Salomé S. Pinho, Bruno Silva-Santos (Portugal)

11:35  Siglec-1/CD169+ macrophages orchestrate immune reaction and matrix deposition in pancreatic cancer
WS67.3 Ana Hennino¹, Kevin Thierry¹, Melissa Masmoudi¹, Zhichong Wu² (France, ²China)

11:45  Glycosylation of γδT cells defines its activity and function associated with autoimmunity
WS67.4 Beatriz Santos-Pereira, Inês Alves, Manuel Vicente, Ana Campar, Carlos Vasconcelos, António Marinho, Salomé S. Pinho (Portugal)

11:55  The interaction between TLR4 and sialic acid governs monocyte phenotype variations
WS67.5 Loise Råberg, Alexandra Stubelius (Sweden)

12:05  T cell glycosylation as a key player during colitis-associated carcinogenesis
WS67.6 Eduarda Leite-Gomes¹, Mariana Silva¹, Ana M. Dias¹, Guilherme Faria¹, Ângela Fernandes¹, Rafaela Nogueira¹, Beatriz Santos-Pereira¹, Henrique Fernandes-Mendes¹, Mª Jesús Fernández-Aceñero², Carlos Taxonera², Paula Lago¹, Ricardo Marcos-Pinto¹, Salomé S. Pinho¹ (Portugal, ²Spain)

12:15  Discussion
LIFFEY MEETING ROOM 3 | 11:15-12:30
WORKSHOP 68 - TRANSLATIONAL CANCER IMMUNOLOGY

11:15  Lymphatic-derived oxysterols promote immunity and response to immunotherapy in melanoma
Mengzhu Sun¹, Laure Garnier¹, Chen Wang¹, Julien Angelillo¹, Julien Montorfani¹, Martin Roumain², Dale Brighouse¹, Nadine Fournier¹, Tatiana Petrova¹, Camilla Jandus¹, Daniel Speiser¹, Jean-Marc Llobaccaro³, Manfred Kopf¹, Caroline Pot-kreis¹, Christoph Scheiermann¹,⁴, Giulio Muccioli⁵, Abhishek D. Garg², Stéphanie Hugues¹
(¹Switzerland, ²Belgium, ³France, ⁴Germany)

11:25  Profiling CRC liver metastasis immune microenvironment at steady state and after pre-surgical therapy
Cristina Faccani (Italy)

11:35  Complement activation sustains tumor progression and vasiveness in human and mouse colorectal cancer - CRC
Elena Magrini¹, Kevin Berthenet¹, Monica Dambra¹, Luna Cordeiro Minute¹, Giovanni Pezzone¹, Fabio Grizzi¹, Roberta Carrieri¹, Fabio Pasqualini¹, Sarah Mapelli¹, Sebastien Jaillon¹, Alberto Mantovani¹,², Cecilia Garlanda¹ (Italy, ²United Kingdom)

11:45  Investigating the immune profile of early stage HER2+ breast cancer patients receiving chemotherapy and HER2-targeted therapies
Denis M. Collins¹, Nicola Gaynor¹, Stephen Madden¹, Sinead Toomey¹, Ji Qiu², Jaine Blayney¹, Alfonso Blanco¹, Jean Fletcher¹, Barry Moran¹, Damien Kaukonen¹, Javier Sanchez Ramirez¹, Elaine Kay¹, Darran O'Connor¹, Aisra Teiserskienė¹, Alex Eustace¹, Richard Kennedy¹, Joshua LaBaer², William Gallagher¹, Bryan Hennessy¹, John Crown¹ (Ireland, ²USA)

11:55  Flow cytometric analysis of TILs from different layers of human glioblastoma samples revealed an enrichment of T cells expressing PD-1 and tissue-resident markers in the intermediate and marginal layers
Anna Vanni, Laura Maggi, Camilla Bonaudo, Francesca Matani, Giulia Lamacchia, Alessio Mazzoni, Lorenzo Salvati, Manuela Capone, Lucia Bartoli, Mirko Petti, Filippo Nozzoli, Lorenzo Cosmi, Francesco Liotta, Alessandro Della Puppa, Francesco Annunziato (Italy)

12:05  Understanding the mechanism of cancer-associated fibroblast subpopulation reprogramming-mediated immunomodulation in colorectal cancer
Lei Lei, Eileen Reidy, Niannah Leonard, Aoise O'Neill, Oliver Treacy, Louise Rabbitt, Catherine Timon, Merah Al-Busaidy, Aisling Hogan, Sean Hynes, Aideen Ryan (Ireland)

12:15  Discussion
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AUDITORIUM | 13:30-14:15
KEYNOTE LECTURE 3
Chairs: Tracy Hussell (United Kingdom), Mossadegh-Keller (France)

13:30 Immune control of host physiology
Yasmine Belkaid (France)
14:05 Discussion

AUDITORIUM | 14:25-15:40
SYMPOSIUM - YEFIS: EMERGING YOUNG EUROPEAN SCIENTISTS
Chairs: Yasmine Belkaid (France), Annika Hausmann (Denmark)

14:25 Tumour immune evasion mechanisms and regulatory T cells
Nuria Garcia Diaz (Norway)
14:40 Post-transcriptional checkpoints in autoimmunity
Rami Bechara (France)
14:55 Systems immunology and female immune system
Tal Pecht (Germany)
15:10 Immune cells and tissue microenvironment
Matteo Villa (Austria)
15:25 Discussion

LIFFEY B | 14:25-15:40
SYMPOSIUM - AI/COMPUTATIONAL MODEL APPLICATION TO THE IMMUNE SYSTEM
Chairs: Simon McDade (Ireland), Inge Wortel (The Netherlands)

14:25 Computational and experimental tools to decipher, read, predict and re-engineer antibody and T-cell repertoires
Davide Corti (Switzerland)
14:45 Computational immunology on T cells
Inge Wortel (The Netherlands)
15:05 Germinal centre modeling
Michael Meyer-Hermann (Germany)
15:25 Discussion
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LIFFEY A | 14:25-15:40
SYMPOSIUM - THE DENDRITIC CELL FAMILY
Chairs: Marco Cassatella (Italy), Charlotte Scott (Belgium)

14:25 IDO in DC functions
Francesca Fallarino (Italy)

14:45 Human DC development and heterogeneity
Venetia Bigley (United Kingdom)

15:05 Targeting glycans for DC manipulation in therapy
Yvette Van Kooyk (The Netherlands)

15:25 Discussion
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WICKLOW HALL 2 | 14:25-15:40
WORKSHOP 69 - CANCER IMMUNOTHERAPIES

14:25  WS69.1  Development of a soluble form of TIGIT with immune modulatory property  
        Namrata Ganguli, Dibyendu Samanta  (India)

14:35  WS69.3  Using nanoparticles as artificial antigen presenting cells to activate human CD4 T cells for immunotherapy  
        Si-Sim Kang, Ariel Isser, Jonathan Schneck  (USA)

14:45  WS69.4  Potent CD8+ T cell effector functions induced by NaCl in cancer immunotherapy  
        Caterina Scirgolea, Rosa Sottile, Marco De Luca, Alberto Susana, Enrico Lugli  (Italy)

14:55  WS69.5  A novel combined treatment approach for pancreatic ductal adenocarcinoma enhances immune response and tumour reduction  
        Immacolata Maietta, Rosana Simón Vázquez, Africa González Fernández  (Spain)

15:05  WS69.6  CD69-deficiency confers susceptibility to anti-PD1-induced myocarditis  
        Enrique Ortega-Sollero, Rosa Jiménez-Alejandre, Raquel Sánchez-Díaz, Pilar Martin  (Spain)

15:15  Discussion
LIFFEY HALL 2 | 14:25-15:40
WORKSHOP 70 - IMMUNITY IN RESPIRATORY INFECTIONS

14:25 Developing bispecific antibody for sustained suppression of influenza virus

WS70.1 Romila Moirangthem¹, Sapir Cordela¹, Dina khateeb, Ben Shor¹, Ivan Kosik², Dina Schneidman Duhovny¹, Michal Mandelboim¹, Friederike Jönsson³, Jonathan W. Yewdell², Timothée Bruel², Yotam Bar-On¹ (¹Israel, ²USA, ³France)

14:35 Myeloid-derived OLAH (oleoyl-ACP hydrolase) and its main catalytic products act as early biomarkers of life-threatening illness from diverse viral respiratory infections

WS70.2 Jeremy Chase Crawford¹, Xiaoxiao Jia², Robert C. Mettelman¹, Heather S. Smallwood¹, Amanda M. Green¹, Lee-Ann Van de Velde¹, Ryan S. Thwaites², Tanya Novak¹, Adrienne G. Randolph¹, Paul Thomas¹, Tim Flerlage¹, Zhongfang Wang¹,², Brendon Y. Chua², Katherine Kedzierska¹,² (¹USA, ²Australia, ³United Kingdom, ⁴China)

14:45 Leptin is expressed in lung granulomas of Mycobacterium tuberculosis-infected DBA/2 mice and impairs anti-mycobacterial capacity of immune cells

WS70.3 Claudia La Rocca, Carla Palma, Maria Teresa Lepore, Carla Bromuro, Cristiano Barbati, Vincenzo Gigantino, Fortunata Carbone, Giuseppe Matarese (Italy)

14:55 High-parameter cytometry by time of flight (CyTOF) and unbiased bioinformatical analysis to identify biomarkers of post-Covid syndrome ME/CFS and of response to immunoadsorption therapy

WS70.4 Lucas Arendholz, Lev Petrov, Annika Elisa Stein, Cornelia Heindrich, Kirsten Wittke, Laura Kim, Franziska Sotzny, Janina Behrens, Martin Alvarez Puga, Christiana Franke, Harald Prüß, Judith Bellmann-Strobl, Uta Behrends, Susen Burock, Carsten Finke, Carmen Scheibenbogen, Birgit Sawitzki (Germany)

15:05 Study of Bdellovibrio bacteriovorus as a live antibiotic against Mycobacterium tuberculosis

WS70.5 Archana Singh, Vidushi Sharma, Alisha Arora, Deepak Vats (India)

15:15 Tissue-specific immunophenotyping reveals divergent immune responses to Mycobacterium tuberculosis in lung parenchyma and vasculature of tuberculosis mice model

WS70.6 Sergio Díaz Fernandez, Marco Antonio Fernandez Sanmartín, Yaiza Rosales, Jorge Díaz Pedroza, Guillem Safont Gonzalez, Joan Puñet Ortiz, Pablo Soldevilla Lax, Pere Joan Cardona Iglesia, Jose Antonio Dominguez, Irene Latorre Rueda (Spain)

15:25 Discussion
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WICKLOW HALL 1 | 14:25-15:40
WORKSHOP 71 - VACCINES FOR VIRAL INFECTIONS

14:25
WS71.1 Investigating long-term T cell memory responses to COVID-19 vaccines in people living with HIV
Maxine Höft¹, Roanne Keeton¹, Lee Fairlie¹, Penny Moore¹, Alex Sigal¹², Catherine Riou¹, Wendy Burgers¹ (South Africa, Germany)

14:35
WS71.2 Role of antigen bio-distribution and persistence in early and long-term immune responses to the yellow fever vaccine in non-human primates
Julie Bigay, Matthieu Van Tilbeurgh, Paul Mazet, Aurélie Maura, Caroline Manet, Marco Leonec, Camille Ludot, Sophie Lucantoni, Pauline Maisonneuve, Flavie Misplon, Yael Glasson, Laure-Agnes Chepeaux, Laetitia Bossevo, Julien Lemaitre, Francis Relouza, Laura Junge, Nathalie Bosquet, Anne-Sophie Gallouet, Quentin Pascal, Henri-Alexandre Michaud, Catherine Caillet, Nathalie Mantel, Frédéric Martinon, Pascal Blanc, Roger Le Grand (France)

14:45
WS71.3 Repeated SARS-CoV-2 mRNA vaccination results in decreased capacity of spike-specific serum antibodies to activate NK cells in older adults
Anne Gelderloos, Marije Verheul, Gaby Smits, Irene Middelhof, Rob van Binnendijk, Anne-Marie Buismann, Puck Van Kasteren (Netherlands)

14:55
WS71.4 Mesoporous silicon microparticles (MSMPs) as a new adjuvant in a vaccine against the SARS-COV-2 virus
Ana López Gómez, Jana Ausió Cendra, Natalia Cuesta-Rubio, Alicia García-Culebras, Raúl José Martín-Palma, Eduardo Martínez-Naves, Manuel María Gómez del Moral (Spain)

15:05
WS71.5 Vaccine-induced virus neutralizing antibody responses against seasonal influenza virus H1N1 strains are not enhanced upon subsequent pandemic H1N1 infection
Petra Mooij¹, Daniella Mortier¹, Aafke Aartse¹, Alexandre B. Murad², Ricardo Correia², António Roldão², Paula M. Alves², Zahra Fagrouch, Dirk Eggink¹, Norbert Stockhofe¹, Othmar G. Engelhardt², Ernst J. Verschoor¹, Marit J. van Gils¹, Willy M. Bogers¹, Manuel J.T. Carrondo², Edmond J. Remarque¹, Gerrit Koopman¹ (Netherlands, Portugal, United Kingdom)

15:15
WS71.6 Adaptable live-attenuated SARS-CoV-2 OTS vaccines show preclinical safety and broad protection
Tuba Barut¹, Nadine Ebert¹, Bettina Salome Trüeb¹, Etori Aguiar Moreira¹, Péter Demeter Túrós¹, Llorenç Grau-Romà¹, Jacob Schö⁵, Inês Berenguer Veiga¹, Annika Kretzel¹, Jenna N. Kelly¹, Melanie Brügger¹, Charaf Benara¹, Donata Hoffmann², Martin Beer², Volker Thiel² (Switzerland, Germany)

15:25 Discussion
WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY HALL 1 | 14:25-15:40
WORKSHOP 72 - INNATE IMMUNITY IN CANCER II

14:25 Dissecting molecular drivers of NK cell dysfunction to enhance anti-tumor activity
**Batel Sabag, Abhishek Puthenveetil, moria Levy, Noah Joseph, Fatima Awwad, Shahar Ashkenazi, Mira Barda-Saad** *(Israel)*

14:35 Anti-CD20 mediated apoptosis in B-cell lymphoma impairs “don’t-eat-me” CD47 signaling and boosts Fc receptor-mediated phagocytosis
**Oanh Nguyen¹, Sandra Lara¹, Giovanni Ferro¹, Matthias Peipp², Sandra Kleinau¹** *(¹Sweden, ²Germany)*

14:45 Lipid-associated macrophages are induced by cancer-associated fibroblasts and mediate immune suppression in breast cancer
**Eleonora Timperi¹, Paul Gueguen¹, Martina Molgora², Ilaria Magagna¹, Yann Kieffer¹, Silvia Lopez Lastra¹, Philemon Sirven¹, Laura G Baudrin¹, Sylvain Baulande¹, André Nicolas¹, Gabriel Champenois¹, Didier Meseure¹, Anne Vincent-Salomon¹, Anne Tardivon¹, Enora Laas¹, Vassili Soumelis¹, Marco Colonna², Fatima Mehta-Grigoriou¹, Diego Sebastian Amigorena¹, Emanuela Romano¹** *(¹France, ²USA)*

14:55 Wiring the transcription factor network to prime Natural Killer anti-tumor immunity in triple-negative breast cancer
**Veronica Manicardi, Gloria Manzotti, Elisa Salvato, Federica Torricelli, Elisa Gasparini, Alessia Ciarrocchi, Francesca Reggiani** *(Italy)*

15:05 PD-L1 ligation enhances NK cell anti-tumor function by inducing a metabolic shift
**Katja Srpan, Kyle Lupo, Katharine Hsu** *(USA)*

15:15 ERAP1 controls NK cell responses by regulating peptide-dependent interactions between HLA class I and NK cell inhibitory receptors in hematological malignancies
**Kamila Król, Maria Troiano, Michela Falco, Marco Andreani, Doriana Fruci** *(Italy)*

15:25 Discussion
WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY MEETING ROOM 2 | 14:25-15:40
WORKSHOP 73 - VIRAL IMMUNITY II

14:25
Developing intracellular antibodies that harness innate antiviral mechanisms to prevent HIV-1 infection
Florence Stel, Esther Zijlstra-Willems, Neeltje Kootstra, Teunis B.H. Geijtenbeek (Netherlands)

14:35
ULBP2-expressing HCMV mutants affect NK cell function and activation
Greta Meyer, Anna R Simes, Jenny F. Kuehne, Irina Bevzenko, Kerstin Beushausen, Jana Keil, Karen Wagner, Lars Steinbrück, Eva-Maria Borst, Martin Messerle, Christine Falk (Germany)

14:45
Antiviral protective signature of Vδ2 T cells in pediatric patients after αβ/CD19-depleted hematopoietic stem cell transplantation
Veronica Bordoni, Federica Guarracino, Federica Galaverna, Valentina Bertaina, Giuseppina Li Pira, Marco Rosichini, Angela Pitisci, Enrico Velardi, Pietro Merli, Franco Locatelli, Chiara Agrati (Italy)

14:55
CD4+ T-cell tissue lymphopenia in human-papillomavirus-driven anal dysplasia in people living with human immunodeficiency virus
Rehana Hewavisenti, Zong-Hong Zhang, Cecilia Chang, Tony Wang, Priyanka Hastak, Fengyi Jin, Isobel M. Poynten, Alexander Swarbrick, Andrew E. Grulich, Anthony Kelleher, Sarah C Sasson (Australia)

15:05
Increased levels of intestinal CD103+ cells and plasma IgG/IgA ratio are associated to spontaneous HIV control
Joana Vitallé, Beatriz Domínguez-Molina, Sara Bachiller, Carmen Gasca-Capote, Cristina Moral-Turón, Isabel Gallego, Francisco José Ostos, Mohamed Rafii-El-Idrissi Benhnia, Jorge Carrillo, Julià Blanco, Luis Fernando López-Cortés, Ezequiel Ruiz-Mateos (Spain)

15:15
CD4+T cells license Kupffer cells to revert the CD8+T cell dysfunction induced by hepatocellular priming
Valentina Venzin1, Cristian Beccaria1, Valeria Fumagalli1, Federica Moalli1, Chiara Perucchini1, Chiara Laura1, Pietro Delfino1, Elisa Bono1, Leonardo Giustini1, Marta Grillo1, Keigo Kawashima1, Micol Ravà1, Anna Celant1, Pietro Di Lucia1, Giorgia De Simone1, Fulvia Vascotto2, Luca G Guidotti1, Matteo Iannacone1 (1Italy, 2Germany)

15:25
Discussion
### WORKSHOP 74 - TRIGGERS OF AUTOIMMUNE AND INFLAMMATORY DISEASE

**Liffey Meeting Room 3 | 14:25-15:40**

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<th>Time</th>
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<tr>
<td>14:25</td>
<td>Tlr7 bi-allelism defines a functionally distinct B cell subset and drives systemic autoimmunity</td>
<td>Léa Ferrayé, Charles-Henry Miquel, Berenice Faz-Lopez, Magali Savignac, Jean-Charles Guéry (France)</td>
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<tr>
<td>14:35</td>
<td>Biological effect of cytokine specific auto-antibodies on immune responses in a healthy population</td>
<td>Florian Dubois¹, Jakob Hjorth Von Stemann¹, Violaine Saint-André¹, Vincent Bondet¹, Celine Posseme¹, Bruno Charbit¹, Lluis Quintana-Murci¹, Morten Bagge Hansen¹², Sisse Rye Ostrowski¹², Darragh Duffy¹ (France,²Denmark)</td>
</tr>
<tr>
<td>14:45</td>
<td>Exploratory study of the utility of the detection of microRNAs in urine of patients with immune-mediated inflammatory diseases</td>
<td>Marisa Pardines Ortiz, Ana Triguero Martínez, Nuria Montes, Hortensia De la Fuente, Ana Romero Robles, Rosario García Vicuña, Amalia Lamana, Ana M. Ortiz, Rebeca Hernández Martínez, Mónica Marazuela, Isidoro González Álvaro (Spain)</td>
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<tr>
<td>14:55</td>
<td>Presence and characterization of circulating endothelial cells in individuals-at-risk and patients with rheumatoid arthritis</td>
<td>Brianne Barker, Mary Canavan, Dumitru Anton, Aoife O'Rourke, Carl Orr, Douglas Veale, Ursula Fearon (Ireland)</td>
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<tr>
<td>15:05</td>
<td>Deciphering the impact of epigenetic imprinting for T cell differentiation in humans using an induced pluripotent stem cell (iPSC)-based in vitro model</td>
<td>Marcel Finke, Christopher Kressler, Frederik Hamm, Anne Schulze, Ramonique Lim, Harald Stachelscheid, Julia K Polansky (Germany)</td>
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<td>15:15</td>
<td>Interleukin-17-induced granulopoiesis alters neuroautoimmune susceptibility in a mouse model of multiple sclerosis</td>
<td>Katlynn Carter, Rebecca Jasser, Michaela Blanfeld, Tommy Regen, Ari Waisman (Germany)</td>
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<td>15:25</td>
<td>Discussion</td>
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**Auditorium | 15:50-16:20**

Closing Ceremony
P1.01 ADOPTIVE CELL THERAPY

P1.01.01 Both NK92 cells stably transfected with CD16 and expanded primary NK cells exert potent antibody-dependent cytotoxicity against multiple myeloma cells in vitro and in vivo
Evelyn Galano-Frutos, David Giraldos, Chantal Reina-Ortiz, Laura Cambronero, Isabel Marzo, Javier Naval, Alberto Anel (Spain)

P1.01.02 Tolerogenic dendritic cells manifest strong cellular respiration as evidenced by oxygen consumption and lactate production
Antonia Peter, Tamara Traitteur, Sara Tekavec, Mats van Delen, Amber Dams, Morgane Vermeulen, Hans de Reu, Nathalie Cools (Belgium)

P1.01.03 Coculture with human umbilical cord-derived mesenchymal stromal cells facilitates ex vivo expansion of human regulatory T cell subpopulations
Qifeng Ou, Shirley Hanley, Rachael Power, Sarah Hontz, Sarah Cormican, Stephen J. Elliman, Janusz Krawczyk, Neema Negi, Matthew D. Griffin (Ireland)

P1.01.04 The effect of adoptive cellular immunotherapy on solid tumors of a novel human JBT19 UPS sarcoma cell line
Kateřina Krausová, Pavla Táborská, Dmitry Stakheev, Pavol Lukáč, Lenka Rajsiglová, Luca Vannucci, Daniel Smrž (Czech Republic)

P1.01.05 Tertiary lymphoid structure-related immune infiltrates in NSCLC tumor lesions correlate with low tumor-reactivity of TIL products

P1.01.06 Exploring the impact of immune reconstitution on clinical outcomes following allogeneic stem cell transplantation and CAR-T cell therapy
Hayley Foy-Stones, Christopher Armstrong, Christopher Larry Bacon, Nina Orfali, Derek G. Doherty, Anthony McElligott, Tor Hervig, Aoife Kilgallon, Nicola Gardiner (Ireland)

P1.01.07 Genome
Conor Lawlor¹, Michael Freeley¹, Monika Ziminska², Emma Carroll, Jordan Wilson², Helen McCarthy² (¹Ireland, ²United Kingdom)

P1.01.08 gd T cell therapy for post-transplant cytomegalovirus infection: preclinical proof-of-concept
Gabriel Marseres¹, Coline Gentil¹, Claire Tinevez¹, Maxime Courant¹, Anaïs Cosentino¹, Hannah Kaminski¹, Victor Bigot¹, Vincent Pitard¹, Atika Zouine¹, Myriam Capone¹, Isabelle Garrigue¹, Valerie Prouzet-Mauleon¹, Béatrice Turcq¹, Dany Anglicheau¹, Benoit Rousseau¹, Edouard Forcade¹, Bruno Silva-Santos², Pierre Merville¹, Julie Dechanet-Merville¹, Lionel Couzi² (¹France, ²Portugal)

P1.01.09 Generating metabolically superior T cells as a novel immunotherapy to treat solid tumors
Michael Berger, Yarden Engel, Amijai Saragovi, Zahala Baron, Dinorah Friedmann-Morvinski, Alina Brosque (Israel)
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<th>Poster Number</th>
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<tr>
<td>P1.01.10</td>
<td>Exploring DARPin expression to detect MHC class I restricted antigen presentation</td>
<td>Sandra Schmid, Fabienne Läderach, Obinna Chijioke, Birgit Dreier, Andreas Plückthun, Christian Münz (Switzerland)</td>
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<td>P1.01.11</td>
<td>CAR-T cell therapy for solid tumors against a carbohydrate target</td>
<td>Beatriz Amorós-Pérez, Benigno Rivas-Pardo, Raquel González-García, Irene Real-Arévalo, Marcos Viñuela-Martín, Oana Hangiu, Oscar Aguilar Sopena, Pedro Roda Navarro, Luís Álvarez-Vallina, Manuel María Gómez del Moral, José Luis Subiza, Eduardo Martínez-Navas (Spain)</td>
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<td>P1.01.12</td>
<td>Cytotoxicity of Vδ1 γδ T cells isolated from healthy donor PBMCs against colorectal cancer cells</td>
<td>Amy Walsh, Anthonia Ekperuoh, Rosemary O'Connor, Henry Paul Redmond, Cathriona Foley (Ireland)</td>
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<tr>
<td>P1.01.13</td>
<td>Epigenetic editing for conventional to regulatory T cell reprogramming</td>
<td>Ramonique Lim, Christopher Kressler, Carina Saggau, Viktor Glaser, Mingxing Yang, Anamika Giri, Dania Hamo, Stephan Schlickeiser, Hans-Dieter Volk, Alexander Scheffold, Dimitrios Laurin Wagner, Julia K. Polansky (Germany)</td>
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<tr>
<td>P1.01.14</td>
<td>In vitro targeting of non-hematological tumour cells by immortalized NK cells engineered with a CD6-based chimeric antigen receptor</td>
<td>Lucía Aragón-Serrano1, Laura Carrillo-Serradell1, Violeta Planells-Romeo1, Cristina Catalá1, Michael O'Dwyer2, María Velasco-de Andrés1, Francisco Lozano1 (Spain, Ireland)</td>
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<td>P1.01.16</td>
<td>Study on the effect of corticosteroids on lung development with the SSEA1+ stem/progenitor cells derived lung organoid model</td>
<td>Yan-Ru Cho, Bor-Luen Chiang (Taiwan)</td>
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<tr>
<td>P1.01.17</td>
<td>Galectin-1-deficient Foxp3+ regulatory T cells show limited long-term protection in experimental inflammatory bowel disease</td>
<td>Raquel Fernández-Pérez, Rebeca Sánchez-Dominguez, Omaira Alberquilla, Miguel A. Martín, Juan Antonio Bueren, Marina Garin (Spain)</td>
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<tr>
<td>P1.01.18</td>
<td>Antibacterial activity of KHYG-1 cells stably expressing a lymphoid scavenger-like receptor-based chimeric antigen receptor</td>
<td>Violeta Planells-Romeo1, Laura Carrillo-Serradell1, Lucía Aragón-Serrano1, Cristina Catalá1, Michael O’Dwyer2, María Velasco-de Andrés1, Francisco Lozano1 (Spain, Ireland)</td>
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<td>P1.01.19</td>
<td>Search and find: regulatory T cells</td>
<td>Katja Leben Zupet1, Kristina Manzoni2, Jon Žnidarčič1, Karen Butina Ogorelec1, Andrea Šarac1, Maša Čater1, Simon Horvat1, Anže Smole1, Jelka Pohar1 (Slovenia, Croatia)</td>
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POSTER SESSION 1

P1.01.20 Novel A20 based therapeutic strategies to fight lung cancer
Monika Homolya, Max Schwab, Michael Machtinger, Emilio Casanova, Herwig Moll (Austria)

P1.01.21 Glutaminase is essential for NK cell cytotoxicity
Marek Jedlicka, Tereza Feglarová, Eva Mašínová, Lucie Janstová, Jana Szabová, Veronika Švubová, Katerina Kuzelova, Marcela Hortova-Kohoutkova, Jan Frič (Czech Republic)

P1.01.22 Developing image-based cell assays to effectively monitor T-cell apoptosis and CAR expression
Bo Lin, Leo Chan (USA)

P1.01.23 Modulation of antigen-specific B cell responses by engineered IL-10-producing tolerogenic dendritic cells
Konstantina Morali1, Juulke Steuten2, Fabio Russo1, Francesca Santoni de Sio1, Charlotte Menage2, Valentina Concoli1, Andrea Annoni1, Silvia Iaia1, Marieke van Ham2, Anja ten Brinke2, Silvia Gregori1 (1Italy, 2Netherlands)

P1.02 ALLERGY AND ASTHMA

P1.02.01 Quantitative transcriptome analysis of purified equine mast cells identifies a dominant mucosal mast cell population
Srinivas Akula, Miia Riihimaki, Ida Waern, Magnus Abrink, Amanda Raine, Lars Hellman, Sara Wernersson (Sweden)

P1.02.02 Short chain fatty acids and other microbiota metabolites in lipid transfer proteins allergy
Paula Álvarez Romero, Laura Carrero Chiquillo, Rocío Aguado Álvarez, Juan Molina Alcaide, Berta Ruiz León, Aurora Jurado Roger (Spain)

P1.02.03 PLAUR alternative splice pattern analysis in patients with bronchial asthma and rheumatoid arthritis
Jiri Litzman, Petra Kuliskova, Lucie Ballonova, Peter Slanina, Marcela Vlkova, Petr Nemec, Jan Baros, Julie Stichova, Premysl Soucek, Tomas Freiberger (Czech Republic)

P1.02.04 Lymphocyte transformation test in assessing allergic causality and cross reactivities to glycopeptides and lipoglycopeptides in non-severe cutaneous adverse reactions
Daniela Aguilar, Laura Miguel Berenguel, Ricardo Cuesta Martín de la Camara, Elena Ramírez, Olga Rogozina, Miguel González Muñoz (Spain)

P1.02.05 Recombinant Blomia tropicalis allergens for precise differential diagnosis of allergic sensitization
Nishelle Dsouza1, Milena Weber1, Eszter Sarzsinszky1, Gabrielle Pauli2, Huey Jy Huang1, Margarete Focke-Tejk1, Mikhail Tulaev1, Walter Keller1, Thomas Schlederer1, Rudolf Valenta1, Susanne Vrtala1 (1Austria, 2France)
POSTER SESSION 1

P1.02.06 Impact of crosstalk between Th2 cells, ILC2s and cDC2s on lung eosinophilia in a mouse model of allergic bronchopulmonary aspergillosis
Lisa-Marie Graf, Stefan Wirtz, David Voehringer (Germany)

P1.02.07 Skin mast cells require integrin β1 for their perivascular alignment and induction of contact hypersensitivity
Aaron Hoffmann, Katsoulis-Dimitriou Konstantinos, Dudeck Jan, Anne Dudeck (Germany)

P1.02.08 Characterisation of Furin deletion in myeloid cells during allergic inflammation
Martin I. González-Rodríguez, Tanja Salomaa, Marko Pesu, Ilkka S. Junttila (Finland)

P1.02.10 Effect of diesel exhaust particles on immune response of primary human nasal epithelial cells in HDM-allergic rhinitis patients
Nahyun Kim, Moo Kyun Park, Doo Hee Han (South Korea)

P1.02.11 Specific immunoglobulin E binding patterns to wheat salt-soluble proteins in Thai patients with wheat-induced anaphylaxis
Pisit Ubonsri (Thailand)

P1.02.12 GM-CSF-primed eosinophils enhance mast cell activation
Xue-Ying Luo¹, Sherezade Moñino-Romero¹, Francesca Levi-Schaffer¹, Marcus Maurer¹, Stefan Frischbutter¹ (Germany, ²Israel)

P1.02.13 Global associations of macronutrient supply and asthma disease burden
Duan Ni, Alistair Senior, David Raubenheimer, Stephen Simpson, Laurence Macia, Ralph Nanan (Australia)

P1.02.14 How nutritional landscapes impact food allergy
Duan Ni, Alistair Senior, Jian Tan, Laurence Macia, Ralph Nanan (Australia)

P1.02.18 Peanut-allergic young children after 1 year of oral immunotherapy show changes in their gut microbiota composition and functional potential
Isabella Badolati, Ymke de Jong, Carina Uhl, Marleen Joustra, Caroline Nilsson, Anna Asarnoj, Eva Sverremark Ekstrom (Sweden)

P1.02.19 Comparison of two multiplex arrays for in vitro allergy diagnosis with the reference singleplex method
Adrian Marynowski, Melissa E. Liriano-Alba, Fabio Román-Balderrama, Alberto Martinez-Cano, Aitana Alberdi Callejo, María Catalá, José González-Fernández, Celia González-Agudo, Reyes Tejedor-Lázaro, Fátima González-Chantal, Carlos Blanco-Guerra, Arantxu Alfranca (Spain)

P1.02.20 Oral tolerance to walnut and peanut evaluated through basophil degranulation
Laura Carrero Chiquillo, Ana Navas, Juan Molina Alcaide, Raquel Bernardo, Javier Torres, Aurora Jurado Roger (Spain)

P1.02.22 Development of atopic diseases among offspring of mothers belonging to gestational diabetes mellitus (GDM) risk group
Anu Bärenson, Aili Tagoma, Heili Varendi, Raivo Uibo (Estonia)
POSTER SESSION 1

P1.02.23 Interleukin-1β signaling is critical to urban particulate matter induced exacerbation of airway allergic inflammation

Tien-Hsuan Chen, Bor-Luen Chiang (Taiwan)

P1.02.24 In vitro characterisation of the role of human macrophage migration inhibitory factor in driving house dust mite mediated trained immunity

Molly Dunlop, Hazel Dunbar, Ian Hawthorne, Patrick Mitchell, Karen English (Ireland)

P1.02.25 Development of monoclonal antibodies against cat allergen Fel d 3 and their application for the analysis of cat allergen extracts

Vytautas Rudokas, Aurelija Zvirbliene (Lithuania)

P1.02.26 Macropinocytosis is the principal uptake mechanism of antigen-presenting cells for allergen-specific virus-like nanoparticles

Armin Kraus, Bernhard Kratzer, Al Nasar Ahmed Sehgal, Doris Trapin, Matarr Khan, Nicole Boucheron, Winfried Pickl (Austria)

P1.02.27 TCR- and HLA-transgenic humanized mouse model for birch pollen allergy

Mirjam Schaar, Bernhard Kratzer, Al Nasar Ahmed Sehgal, Doris Trapin, Barbara Bohle, Alina Neunkirchner, Ursula Wiedermann, Rudolf Valenta, Winfried Pickl (Austria)

P1.02.28 Clinical relevance of molecular diagnosis in patients sensitized to olive tree (Olea europaea) pollen in a cohort of patients from the province of Cádiz

Javier Galán Picón, Alberto Gallardo García, Jorge Mannelli, Raquel De la Varga-Martínez (Spain)

P1.02.29 More severe symptoms are associated to specific IgE detection of a higher number of LTPs using microarray technology

Juan López Pérez, Maria Pilar Osácar Puyoles, Sergio Zuheros Serrano, Carlos Colás Sanz, Luis Martinez-Lostao (Spain)

P1.02.30 Performance characteristics of a novel, fully automated immunoassay microarray for the qualitative serological detection of specific IgE directed against Bet v 1

Yasemin Ataman-Önal, Brian Steele, Gerber Gomez, Rocio Pasion-Galvan, Jose Santiago, Michael Hausmann, Christian Fischer (Switzerland)

P1.02.31 LPS in combination with amoxicillin increases basophil activation and can be used to improve basophil activation test for IgE-mediated allergy

Jose A. Cespedes, Ruben Fernandez-Santamaría, Bogas Gador, Adriana Ariza, Inmaculadaq Doña, Maria Salas, Marina1 Labella, Tahia Fernandez Duarte, Cristobalina Mayorga, Maria Jose Torres, Cecilia Frecha (Spain)

P1.02.32 The crucial role of lipid receptors on pathogenic T helper cells during house dust mite allergic airway inflammation

Anna Krone, Simon Schreiber, Tobias Franz, Negele Jonas, Johanna Kotrba, Marc Roder, Anja Sammt, Camilla Merten, Nouria Jantz-Naeem, Robert Geffers, Christoph Garbers, Anne Dudeck, Andreas Müller, Burkhart Schraven, Sascha Kahlfuß (Germany)

P1.02.33 Interactions of metal allergens with T cell receptors

Franziska Riedel, Caterina Curato, Marina Aparicio Soto, Leonie Maibaum, Wiebke K. Peitsch, Katherina Siewert (Germany)
POSTER SESSION 1

P1.02.34 A novel alveolar macrophage depletion mouse model identifies IRF4 as a master regulator of alveolar macrophage effector function during type 2 lung inflammation
Stijn Verwaerde¹, Jean-François Hastir¹, Sjoerd Schetters¹, Ursula Smole¹, Leen Seys¹, Karel Van Damme¹, Martijn Schuijs¹, Sofie De Prijck¹, Kim Deswarte¹, Laura Bub², Tim Willinger², Martin Guilliams¹, Bart Lambrecht¹ (Belgium, ²Sweden)

P1.02.35 Serum levels of TSLP and CD14 are lower in children with atopic dermatitis and food allergy to cow’s milk or a combination of cow’s milk and eggs
Tomáš Thon, Tereza Svabova, Lucie Bulantova, Eliska Kopeletova, Anna Sediva, Stepanka Capkova, Miloslav Kverka, Helena Tlaskalova-Hogenova, Dagmar Srutkova, Andrea Polouckova, Zuzana Jirásková-Zakostelská (Czech Republic)

P1.02.36 Molecular insights into shrimp allergy
Dhouha Krir, Ines Ben Sghaier, Yosra Nasri, Mariem Marrak, Imen Zamali, Ahlem Ben Hmid, Hayet Kbaier, Mouldi Hidri, Walid Hamdi, Yousr Galai, Melika Ben Ahmed, Samar Samoud (Tunisia)

P1.02.37 Component-resolved allergy diagnostics in Honeybee venom allergy
Georgi Nikolov, Radoslava Emilova, Yana Todorova, Maria Nikolova, Bogdan Petrunov (Bulgaria)

P1.02.38 Obesity-induced gut dysbiosis is associated with lung endothelial glycocalyx shedding and exacerbation of asthma

P1.02.39 Lung microbiota analysis of asthmatics reveals pathogenic microbial blooms corresponding to lung inflammation and reduced microbial diversity
John Mac Sharry, Laura Walsh, Desmond Murphy (Ireland)

P1.02.40 Airway and systemic immunoglobulin profiling and immune response in adult asthma
John Mac Sharry, Laura Walsh, Desmond Murphy (Ireland)

P1.02.42 Prime time for changing the light’s course: C1 inhibitor quantification by nephelometry and turbidimetry
Adrián García García, Lydia García Serrano, Francisco Morandeira, Jordi Bas Minguet, Ramón Lleonart, Virginia Mas-Bosch (Spain)

P1.02.43 Comprehensive analysis of lung macrophages and dendritic cells in two murine models of allergic airway inflammation using spectral flow cytometry
Belinda Camp, Ilka Jorde, Franka Sittel, Alexander Pausder, Andreas Jeron, Dunja Bruder, Jens Schreiber, Sabine Stegemann-Koniszewski (Germany)

P1.02.44 Simultaneous immediate and delayed hypersensitivity to galcanezumab - case report
Refki Peter, Aude Belbezier, Pralong Pauline (France)

P1.02.45 The impact of alarmins and co-stimulatory signals on pathogenic Th2 cell differentiation and effector function
Verena Fuhrmann, Matarr Khan, Marlis Alteneder, Nicole Boucheron (Austria)
**POSTER SESSION 1**

**P1.02.46** Are hypersensitivities towards metals causing implant failure in orthopedics?
Lea Heinemann, Stefanie Donner, Sven Geißler *(Germany)*

**P1.02.47** The prevalence of allergic reactions to insect sting, in certain group of patients presented in Private polyclinic in Prishtina, Kosovo
Luljeta Ahmetaj, Ylli Ahmetaj, Mirsije Shahini *(Kosovo)*

**P1.02.48** Single cell analysis of upper and lower respiratory tract reveals novel mechanism of dust mite antigen presentation in allergic asthma
Wojciech Lason, James Melhorn, Devika Agarwal, Xiawei Zhang, Julian Knight, Calliope Dendrou, Timothy Hinks *(United Kingdom)*

**POSTER SESSION 1**

**P1.03 ANTIGEN PRESENTATION**

**P1.03.01** Antigen presenting cells in melanoma – role in tumor regression
Monica Teodora Neagu, Carolina Constantin, Carmen Dumitru, Sabina Zurac *(Romania)*

**P1.03.02** Targeting the unconventional
Michele Mishto *(United Kingdom)*

**P1.03.03** Celiac disease defined by over-sensitivity to gliadin activation and superior antigen presentation of dendritic cells
Michael Hudec, Kamila Riegerová, Jan Pala, Viera Kútna, Marie Černá, Valerie Bríd O’ Leary *(Czech Republic)*

**P1.03.04** Screening and application of hepatocellular carcinoma-related antigen AFP specific T cell epitope spectrum
Suyue Zhu, Yi Wu, Yu Zhao, Yandan Wu, Fangping Yue, Chuanlai Shen *(China)*

**P1.03.05** Exploring the role of T cell epitopes in the development of non-specific lipid transfer proteins allergy
Paula Álvarez Romero, Juan Molina Alcaide, Rocío Aguado Álvarez, Ana Navas, Bárbara Manzanares Martín, Aurora Jurado Roger *(Spain)*

**P1.03.06** A new look on the antigens involved in multiple sclerosis: using immunopeptidomics to identify naturally processed myelin epitopes
Eline Mertens, Judith Derdelinckx, Karin Schildermans, Mats van Delen, Geert Baggerman, Inge Mertens, Nathalie Cools *(Belgium)*

**P1.03.07** Closer peptide repertoire similarity of HLA-B14:03 and HLA-B27:05 sheds light on ankylosing spondylitis susceptibility
Laura Cobos-Figueroa, Javier Robles-Parrado, Carmen Mir, Ana Pintor-Poveda, Pilar Lauzurica, Elena Lorente *(Spain)*

**P1.03.08** Unlocking HLA diversity: innovative CRISPR strategies for peptide repertoire analysis
Laura Cobos-Figueroa, Carmen Mir, Ana Pintor-Poveda, Pilar Lauzurica, Elena Lorente *(Spain)*

**P1.03.09** Optimization of dendritic cell activation via HIV-1 infection under xeno-free conditions
Paul Schweighofer, Wilfried Posch, Doris Wilflingseder *(Austria)*
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P1.03.10 The hidden power of anti-inflammatory macrophages: unveiling their role as cross-presenters in the activation of cytotoxic T cells
Alexine de Wit, Geert Van den Bogaart, Frans Bianchi (Netherlands)

P1.03.11 Increasing contribution of mitochondria-derived peptides to the HLA-DR immunopeptidome on different T1D stages
Manel Garcia¹, Yago Arribas², Saioa Auzmendi¹, Mercè Rubió¹, Dolores Jaraquemada¹, Carme Roura-Mir¹ (Spain, France)

P1.03.13 Effect of tapasin during peptide exchange on MHC class I proteins
Alexandra Mitlehner, Moritz Becker, Huan Lan, Christian Freund (Germany)

P1.03.14 Thiol-binding methylisothiazolinone affects human antigen processing enzyme cathepsin B in human immune cells
Sebastian Wolf, Antonia Körber, Hermann-Josef Thierse (Germany)

P1.03.15 Analysis of HLA-DR immunopeptidome derived from dendritic cells pulsed with tumor extracts
Gonzalo Lázaro Bermejo, Andrea Aran, Maitane Faus, Laia Garrigós, Juan Antonio Cedano, Javier Cortés, Mercè Martí (Spain)

P1.04 ANTIGENS

P1.04.01 Genetic and immunological analysis of PfEBA175 gene and antibody responses in malaria patients from different transmission settings in Ghana
Linford Otoo, Festus Acquah, Linda Amoah (Ghana)

P1.04.02 Proteomes of gut commensal bacterial extracellular vesicles: search for conserved surface epitopes
Roselydiah Makunja, Arina Maltseva, Tiina Pessa-Morikawa, Masuma Khatun, Mikael Niku (Finland)

P1.04.03 Selection of high affinity recombinant antibodies against human complement protein C3
Ginka Cholakova, Rada Poryazova, Alexandra Kapogianni, Ivanka Tsacheva (Bulgaria)

P1.04.04 Uncovering untapped potential: noncanonical neoepitopes and T-cell metabolism in paediatric acute lymphoblastic leukaemia
Nicole Acuti¹, Julia Stachowiak², Hanna P. Roetschke¹, Yehor Horokhovskyi², Henning Urlaub¹, Julianie Liepe², Michele Mishto¹, Anna Schurich¹ (United Kingdom, Germany)

P1.04.05 Potential cross-reactivity between tisular transglutaminase neo-epitope antibodies and Helicobacter pylori antibodies in coeliac disease diagnosis
Marc Perez-Guzman, Juliana Ochoa Grullon, Silvia Sanchez Ramon, Miguel Fernandez Arquero, María Guzmán-Fulgencio, Alejandro Pereiro Rodríguez, María Palacios Ortega, Angela Villegas Mendiola, Teresa Guerra Galan, Kauzar Mohamed Mohamed, María Dolores Mansilla Ruiz, María del Carmen Rodríguez, María Ruiz (Spain)
P1.04.06  Expansion of CD8 T-cells recognizing tumor-shared antigens is correlated to the clinical outcomes of hepatocellular carcinoma patients treated with atezolizumab and bevacizumab
Laurie Spehner, Adeline Bouard, Christophe Borg, Angélique Vienot (France)

P1.04.07  A SARS-CoV-2 nucleocapsid protein-derived peptide influences primary and memory cellular responses by affecting the signal 1 and 2 during T cell activation
Davide Proietto¹, Elena Torreggiani¹, Beatrice Dallan¹, Martina De Laurentis¹, Eleonora Gallerani¹, Valentina Albanese¹, Victor Appay², Lacey Sian Llewellyn³, Salvatore Pacifico¹, David A. Price³, Antonella Caputo¹, Riccardo Gavioli¹, Francesco Nicoli¹ (Italy, ²France, ³United Kingdom)

P1.04.10  Chimeric virus-like particles as an efficient carrier for generating monoclonal antibodies against conserved epitopes of SARS-CoV-2 spike protein
Agne Rimkute¹, Milda Norkiene¹, Danguole Ziogiene¹, Kerstin Wernike², Aurelija Žvirbliene¹, Indre Kucinskaite-Kodze¹ (Lithuania, ²Germany)

P1.04.11  Identification of the novel HLA-C*01:65:02 allele
Juan López Pérez, Mercedes Inda Landaluce, Luis Martinez-Lostao (Spain)

P1.04.12  Anti-MPO and anti-PR3 doble-positive: more is less
Lydia García Serrano, Sergi Cantenys Molina, Adrián García García, Jordi Bas Minguet, Francisco Morandeira Rego (Spain)

P1.04.13  Immunology laboratory landscape in the repeated determination of extractable nuclear antigens
Juan López Pérez, Mercedes Inda Landaluce (Spain)

P1.04.14  Plasmin-clipped beta-2-glycoprotein I: novel structures lead to increased antibody binding
Hannah Bradford¹, Christophe Lalaurie¹, Jayesh God¹, Xin Gao¹, Charis Pericleous¹, Stephen Perkins¹, Hannah Britt¹, Konstantinos Thalassinos¹, Ian Giles¹, Anisur Rahman¹, Mihaela Delcea², Paul Dalby¹, Thomas McDonnell¹ (United Kingdom, ²Germany)

P1.04.15  Rationale and design of a study to investigate a possible association between group A streptococcal M-peptide antibodies and rheumatic heart disease
Taariq Salie, Caitlin Meyer, Liesl Zühlke, Mpiko Ntsekhe, Mark Engel (South Africa)

P1.04.16  Role of microbial infections in instigated autoimmune responses: a large scale study
Vani Janakiram, Mughda M, Siva V (India)
P1.05 ARTIFICIAL INTELLIGENCE AND IMMUNITY

P1.05.01 Prediction of specific TCR-peptide binding from large dictionaries of TCR-peptide pairs for personalized cellular therapy
Yoram Louzoun, Ido Springer (Israel)

P1.05.02 Counting is almost all you need
Yoram Louzoun, Ofek Akerman (Israel)

P1.05.03 Naive and memory T cells TCR–HLA-binding prediction
Yoram Louzoun, Ofek Akerman, Neta Glazer (Israel)

P1.05.04 Development of a novel machine-learning prognostic scoring system for patients presenting with spinal metastases utilizing analysis of existing datasets to predict prognosis, morbidity and mortality
Omar Hadidi, Meghan Mulqueen, Sandra O'Malley, Seamus Morris, Joanne Lysaght (Ireland)

P1.05.05 Leveraging multi-modal data and AI to dissect pathogenic mechanisms and identify novel immunometabolic targets in IBD
Nadine Biesemann¹, Lu Zhang², Nima Nouri², Samuel Lessard², Richard Xu², Ekaterina Zezina³, Verawan Boonsanay-Michel¹, Özsen Sercan-Alp¹, Dieter Schmoll¹, Zhaohui Du³, Thomas Kreutzberg¹, Michael Tsabar², Giorgio Gaglia², Andre Kurlovs², David Habiel², Terry K. Means², Clément Chatelain², Heming Xing², Virginia Savova², Corneliu A. Bodea², Matthias Herrmann¹, Emanuele de Rinaldis² (¹Germany, ²USA)

P1.05.06 Identification of distinct NK cell and monocyte subpopulations in recurrent pregnancy loss and recurrent implantation failure through flow cytometry unsupervised analysis
Nabil Subhi-Issa, Raquel Gil Laborda, Maria Palacios Ortega, Lydia Pilar Suarez, Ignacio Cristobal, Silvia Sanchez Ramon (Spain)

P1.05.07 Comparative analysis of FTIR spectroscopy of plasma and Raman spectroscopy of peripheral blood mononuclear cells for the differential diagnosis of autoimmune disease
Mollie O'Neill, Neha Chaudhary, Muddassar Ahmad, Grainne Kearns, Eoghan McCarthy, Claire Wynne, Aidan Meade (Ireland)

P1.05.08 Differential diagnosis of ANCA vasculitis subtypes with Fourier transform infrared spectroscopy of serum
Mollie O'Neill, Amrita Dwivedi, Eithne Nic An Riogh, Claire Wynne, Mark Little, Aidan Meade (Ireland)

P1.06 B LYMPHOCYTE REGULATION AND FUNCTION

P1.06.01 Dynamic micropatterns as a novel tool to study immune synapse formation and activation of B cells
Blanca Tejeda González¹, Sara Hernandez-Perez², Pieta Mattila¹ (¹Finland, ²United Kingdom)

P1.06.02 Exploring B cell-derived autophagosome-like vesicle: mechanism and function
Yu-Diao Kuan, Chao-Yuan Tsai, Tomoyuki Nishikawa, Jiayu Anna Tai, Kunihiro Yamashita, Chin-Yang Chang (Japan)
P1.06.03 Human B-cell intersection between systemic and the upper respiratory tract
Eva Piano Mortari, Mattia Laffranchi, Bianca Laura Cinicola, Sabina Barresi, Valentina Marcellini, Marco Scarsella, Ezio Giorda, Gabriele Volpe, Silvano Sozzani, Rita Carsetti (Italy)

P1.06.04 Early-onset common variable immunodeficiency in a patient with heterozygous variants in interferon response-associated genes TRAF3 and IRF4
Kim My Le¹, Nanni Mamia¹, Meri Kaustio¹, Salla Keskitalo¹, Kaisa Kettunen¹, Markku Varjosalo¹, Mikko R.J. Seppänen¹, Timi Martelius¹, Janna Saarela¹⁻², Juha Grönholm¹ (Finland, ²Norway)

P1.06.06 Enhanced antibody responses in CD19-Cre mice
Sara Hernandez-Perez¹⁻², Diogo M. Cunha², Pieta Mattila² (United Kingdom, ²Finland)

P1.06.07 Antigen-dependent regulation of the early stages of unwanted human B cell differentiation and antibody formation
Charlotte Menage, Mariël Duurland, Tineke Jorritsma, Anja ten Brinke, Marieke van Ham (Netherlands)

P1.06.08 Regulation of B cell function and expression of CD11c, T-bet, and FcRL5 in response to different activation signals
Linn Kleberg, Alan Courey-Ghaouzi, Maximilian Julius Lautenbach, Anna Färnert, Christopher Sundling (Sweden)

P1.06.09 FAHD1 as a novel regulator of B cell metabolism
Athanasios Seretis, Pidder Jansen-Duerr, Elia Cappuccio (Austria)

P1.06.10 A TNFR2-specific TNF fusion protein with improved vaccine effectiveness
Yin Xiao, Nadine Hundhausen, Olena Zaitseva, Harald Wajant, Friederike Berberich-Siebelt (Germany)

P1.06.11 Unravelling the B cell immune synapse: septin cytoskeleton as a new master regulator of B cell activation
Diogo Cunha¹, Sara Hernandez-Perez², Luqman Awoniyi¹, Alexandre Carisey³, Guillaume Jacquemet¹, Pieta Mattila¹ (Finland, ²United Kingdom, ³USA)

P1.06.12 Belimumab after rituximab combination therapy preferentially targets IgA2+ B cells in systemic lupus erythematosus
Dan McCluskey¹, Muhammad Shipa¹, Laura Cooney², Michael Ehrenstein¹ (United Kingdom, ²USA)

P1.06.13 Clinical and biological impact of CD6 expression in chronic lymphocytic leukemia
Laura Carrillo-Serradell, Juan Antonio Piñeyroa, Pablo Mozas, Pablo Bousquets-Muñoz, Violeta Planells-Romeo, Lucía Aragón-Serrano, Sergi Casadó-Llombart, Alejandra Leyton-Pereira, María Velasco-de Andrés, Xose S. Puente, Julio Delgado, Francisco Lozano (Spain)

P1.06.14 Retrospective observational study of persistent polyclonal B cell lymphocytosis in our centre
Jorge Mannelli, Javier Galán Picón, Daniel García-Cuesta, Raquel De la Varga-Martínez (Spain)
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P1.06.15 Regulatory B cells expressing granzyme B in renal graft tolerant transplant patients: highly differentiated B cells with a unique pathway, a specific regulatory profile and strong interactions with immune system cells
Nicolas Sailliet, Amandine Dupuy, François Brinas, Karine Renaudin, Luc Colas, Clarisse Kerleau, Cynthia Fourgeux, Jérémie Poschmann, Magali Giral, Nicolas Degauche, Hoa Le Mai, Richard Danger, Sophie Brouard (France)

P1.06.16 The actin regulator WASp associates with chromatin and regulates RNA polymerase II transcription
Roberta D'Aulerio¹, Minghui He¹, Eusra Mohammad¹, Julien Record¹, Jean Gautier², Lisa S. Westerberg¹ (¹Sweden, ²USA)

P1.06.17 Aberrant B cell receptor signaling responses in double-negative B cells of ankylosing spondylitis patients
Rudi Hendriks, Rick Wilbrink, Stefan Neys, Anneke Spoorenberg, Frans Kroese, Odilia Corneth, Gwenny Verstappen (Netherlands)

P1.06.18 TLR-mediated innate signaling drives early B cell differentiation after influenza virus infection
Nicole Baumgarth, Emma Keller, Jonathan Lam (USA)

P1.06.19 Tyrosine kinase 2 modulates splenic B cells through type I IFN and TLR7 signaling
Marta Jaén Cañáño, Estíbaliz Alegría Carrasco, Alejandro Arrabal Sierra, Pablo Delgado-Wicke, Irene Bodega Mayor, Belén de Andrés Muguruza, Maria Luisa Gaspar Alonso-Vega, Elena Fernández Ruiz (Spain)

P1.06.20 Extracellular vesicles produced by regulatory B cells: new approach in kidney transplantation
Amandine Dupuy, Rousselière Amélie, Drapeau Léo, Nguyen Thi-Van-Ha, Nicolas Sailliet, Grangier Alice, Cam Sylvain, Richard Danger, Brun Amanda, Gazeau Florence, Sophie Brouard, Mai Hoa (France)

P1.06.21 Regulatory factor X 7 limits B cell activation and lymphomagenesis
Berenice Fischer, Hanif Javanmard Khameneh, Jessica Guerra, Alessandro Zenobi, Pedro Ventura, Alessandra Pfister, Jessica Barizzi, Lara Mattei, Daniele Cavalli, Andrea Rinaldi, Simone Moro, Ivo Kwee, Egle Radice, Marcus Thelen, Davide Rossi, Greta Guarda (Switzerland)

P1.06.22 Regulation of humoral immune responses differs from COVID-19 in MIS-C cases

P1.06.23 Regulatory B cell exhaustion: molecular characteristics and mechanisms of reversion
Elina Zheremyan, Ksenia Kubenko, Alina Ustiugova, Elena Pushkova, Anastasia Radko, Elvina Bogomolova, Denis Demin, Aksinya Uvarova, Ekaterina Stasevich, Ekaterina Gorshkova, Violetta Gogoleva, Denis Kamelskikh, Olga Aleshina, Nataliya Melnikova, Alexey Dmitriev, Apollinariya Bogolyubova, Dmitry Kuprash, Kirill Korneev (Russian Federation)
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P1.06.25 Immunomodulatory effects of epitope-specific CD37 targeting in mouse
Philipp M. Hagemann, Frauke Koops, Gesine Rode, Erwin Duitman, Sebastian Schulz, Friedrich Koch-Nolte, Friedrich Haag, Hans-Martin Jäck, Zane Orinska (Germany)

P1.06.27 Mass cytometry immunophenotyping reveals significantly decreased frequencies of circulating B cells in autoimmune polyendocrine syndrome type 1

P1.06.28 Helicobacter infection increases the mitochondrial metabolism of B cells
Zeynep Nur Senturk, Bahar Deniz, Ayça Saylı Yazgan (Turkey)

P1.06.29 B and T lymphocytes interactions via VISTA-PSGL1 is associated with tumor recurrence in early-stage NSCLC
Domenico Lo Tartaro1, Sara De Biasi1, Beatrice Aramini1, Valentina Masciale1, Nikolaos Paschalidis2, Lara Gibellini1, Franco Stella1, Massimo Dominici1, Andrea Cossarizza1 (Italy, 2Greece)

P1.06.30 A screening platform for immunomodulatory compounds targeting B lymphocytes
Ummay Honi, Kuhulika Bhalla, Alex Roberts, David Laughton, Stuart Thomson, John Unitt (United Kingdom)

P1.06.31 Longitudinal assessment of memory B cell response against SARS-CoV-2 in solid cancer patients: Implications for vaccination strategies
Ki Seong Lee, Eunjin Lee, Seung Jin Han, Ji Eun Oh (South Korea)

P1.06.32 Natural neonatal Bregs contribute to immune regulation in adulthood
Anna Vallduriola Martin1, Amanda Duhlin1, Diana Matei1, Paul Blair1, Hannah Bradford1, Claudia Monaco1, Stephen Malin2, Claudia Mauri1 (1United Kingdom, 2Sweden)

P1.06.33 The function and activity of RNA binding proteins in germinal center B cells
Chia-I Lien, Sabine Helmrath, David Rieß, Francisco Osorio Barrios, Thomas Englertner, Riccardo Trozzo, Rupert Öllinger, Roland Rad, Julia Mergner, Marc Schmidt-Supprian (Germany)

P1.06.34 ACAT1 identification as an immunotherapeutic target by tertiary lymphoid structure increase in non-small-cell lung cancer
Ronghua Liu, Mengxia Jiao, Yiwei Chu (China)

P1.06.35 Understanding the role of lysosomal signaling in autoimmunity
Julia Johnstone, Alex Clarke (United Kingdom)
P1.07 BACTERIAL, VIRAL, FUNGAL, AND PARASITIC IMMUNOLOGY

P1.07.01 Novel GPR84 agonists prime macrophages to enhance phagocytosis and killing of Gram-negative bacteria
Kacper Kurzyp, Vincent Luscombe, Pinqi Wang, Isobel Davis, Annabell Roberti, Rachel Exley, Angela Russell2, Christoph Tang, David Greaves (United Kingdom)

P1.07.02 Diuretics alone or combined with captopril modulate the phagocytosis of Staphylococcus aureus by mouse macrophages
Paweł Bryniarski, Bernadeta Nowak, Martyna Cieślik, Magdalena Gębicka, Paulina Skalska, Angelika Fedor, Krzysztof Bryniarski, Katarzyna Nazimek (Poland)

P1.07.03 Helminth Co-infection diminishes Antibody Responses to Natural SARS-CoV-2 Infection but not to COVID-19 vaccination: insights from a Ghanaian study
Julia Meyer¹, Ute Klarmann-Schulz¹, Alexander Yaw Debrah², Linda Batsa Debrah², Achim Hoerauf¹², Tomabu Adjobimey¹³ (¹Germany, ²Ghana, ³Benin)

P1.07.04 Deep immunophenotyping to decipher immunological changes in post-infectious fatigue after SARS-COV-2 infection
Silke Sommen, Lise Lund-Berven, Sunniva Segtnan, Joel Selvakumar, Lise Beier Havdal, Tonje Stiansen-Sonerud, Siri Mjaaland, Unni Nygaard, Ratnadeep Mukherjee, Vegard Wyller (Norway)

P1.07.05 The role of microbiota and co-localization in the dissemination of vector transmitted pathogens
Leon Melo¹, Matheus Carneiro¹, Chukwunonso Nzelu¹, Shokouh Ahmadi¹, Emily Bennett¹, Jenny Yoo¹, Markus Geiking¹, Cláudio Meneses², Nathan Peters¹ (¹Canada; ²USA)

P1.07.06 Colony morphotype governs innate and adaptive pulmonary immune responses to Mycobacterium abscessus infection in C3HeB/FeJ mice
Kia Ferrell, Erica Stewart, Claudio Counoupas, James Triccas (Australia)

P1.07.07 Repeated Plasmodium falciparum infection in humans drives the clonal expansion of an adaptive γδ T cell repertoire
Anouk von Borstel¹, Priyanka Chevour¹², Daniel Arsovski¹², Jamie Rossjohn¹, Edward Giles¹, Boubacar Tраore³, Kim Williamson⁴, Kirsten Lyke⁵, Peter Crompton⁵, Martin Davey⁶ (¹Australia; ²United Kingdom; ³Mali; ⁴USA; ⁵South Africa; ⁶United Kingdom)

P1.07.08 Dynamics of vaginal immunity during murine filarial and Herpes-Simplex-Virus-2 co-infection
Lisa Wadephul¹, Alexander Palmen¹, Kathrin Arndts¹, Gnatoulma Katawa², William Horsnelli³⁴, Achim Hoerauf¹, Manuel Ritter¹ (¹Germany, ²Togo, ³South Africa; ⁴United Kingdom)

P1.07.09 Imbalance of CCR6+ CD4 T cells and IFN-γ CD8 T cells in patients with long-COVID
Pedro Martinez-Fleta, Celeste Marcos, Daniel Jimenez-Carretero, Jose Maria Galvan-Roman, Rosa Giron, Ana Arcos, Hortensia De la Fuente, Laura Esparciapinedo, Javier Aspa, Julio Ancochea, Arantzazu Alfranca, Francisco Sánchez-Madrid (Spain)

P1.07.10 Metabolic profiling of lymphocytes in diseases caused by intracellular pathogens
Shilpa Sengupta, Mitali Chatterjee (India)
P1.07.12 Innate - Adaptive synergy in malaria
Pengjun Xi, Patrick Sandoz, Maximilian Julius Lautenbach, Björn Önfelt, Anna Färnert, Christopher Sundling (Sweden)

P1.07.14 Myeloid-derived suppressor-like cells as a prognostic marker in critically III patients: insights from experimental endotoxemia and intensive care patients
Schröier Irene¹, Herdersche Jacobus¹, Theroude Charlotte¹, Kritikos Antonios¹, Leijte Guus², Didier Le Roy¹, Maelick Brochut¹, Chiche Jean-Daniel¹, Perreau Matthieu¹, Pantaleo Giuseppe¹, Guery Benoit¹, Kox Matthijs², Peter Pickkers², Calandra Thierry¹, Thierry Roger¹ (Switzerland, Nederland)

P1.07.15 Characterization of the MAIT cell response to Staphylococcus aureus and the influence of bacterial immune evasion
Elisa J.M. Raineri, Elli Mouchtaridi, Marion Humbert, Caroline Boulouis, Karolinska IHOPE study group, Johan K. Sandberg (Sweden)

P1.07.16 T cell responses in patients infected with Neoehrlichias mikurensis
Linda Wass, Catharina Lewerin, Daniel Jaén-Luchoro, Seija Brundin, Christine Lingblom, Christine Wennerås (Sweden)

P1.07.17 Using weight loss to predict outcome and define a humane endpoint in preclinical sepsis studies
Maelick Brochut, Tytti Heinonen, Tiia Snäkä, Charly Gilbert, Didier Le Roy, Thierry Roger (Switzerland)

P1.07.18 Unveiling trypanosoma cruzi extracellular vesicles as masters of host immune regulation
Armanda Rodrigues, Mafalda Meunier, Victória Tavares, Aleska Silva, Graça Alexandre-Pires, Cláudia Moreno, Isabel Pereira da Fonseca, Gabriela Santos-Gomes (Portugal)

P1.07.19 Gut helminth infection promotes lung anti-viral immunity in a monocyte dependent manner
Matthew Burgess, Karla Berry, Piotr Janas, Amanda McFarlane, Mariana Beltran-Sierra, Neil Henderson, Calum Bain, Henry McSorley, Jurgen Schwarze (United Kingdom)

P1.07.20 Impact of tissue micromilieu factors on the secretion of extracellular vesicles by Leishmania major and on its survival in phagocytic cells
Noor-A-Kasida Islam, André Gemeinhardt, Tobias Utikal, Anna Kashkanova, Vahid Sandoghdar, Ulrike Schleicher, Didier Soulat, Christian Bogdan (Germany)

P1.07.21 Pertussis vaccine-induced regulatory T cells suppress protective nasal tissue-resident memory T cells, which can be overcome using novel adjuvants and nasal vaccination
Caitlín Ní Chasaide¹, Pauline Schmitt¹, Béré K. Diallo¹, Charlotte Leane¹, Lisa Borkner¹, Lucy Curham¹, Seyed Davoud Jazayeri¹, Mieszko Wilk¹², Kingston Mills¹ (Ireland, Poland)

P1.07.23 Chlamydia caviae infection in human epithelial lung cells
Tamara Weinmayer, Madeleine Haas, Irma Schabussova, Ursula Wiedermann, Aleksandra Inic-Kanada (Austria)

P1.07.24 Candida-triggered oral tumorous epithelial cell responses at the posttranscriptional regulatory level
Renata Toth, Marton Horvath, Attila Gacser (Hungary)
**POSTER SESSION 1**

| P1.07.26          | Dermaseptin S4 improves the innate immunity of gingival cells against oral pathogens (*C. albicans* and *E. faecalis*)  
|                   | *Mahmoud Rouabha, Jamila Chakir* (Canada) |
| P1.07.28          | Distinct profiles of cytokines and chemokines in cerebrospinal fluid can differentiate bacterial meningitis from viral meningitis  
|                   | *Ramona Cerasesa Caragheorgheopol, Cătălin Țucureanu, Veronica Lazăr, Simin-Aysel Florescu, Dragoș Ștefan Lazăr, Iuliana Caraș* (Romania) |
| P1.07.29          | Immunological changes during the progression of *Clostridioides difficile* infection in mouse models  
|                   | *Elena Blázquez-López, Marta Fernández-Castillo, Ainara Barco-Tejada, Marjorie Pion, Rafael Correa-Rocha, Patricia Múñoz, Manuel Desco, Lorena Cussó* (Spain) |
| P1.07.30          | Advancing towards systems immunology: understanding immunological dynamics in human experimental enterotoxigenic Escherichia coli infection through cytometry, proteomics, and computational approaches  
|                   | *Sehee Rim, S unniva Todnem Sakkestad, Oda Barth Vedøy, Hans Steinsland, Dimitrios Klefogianniss, Kurt Hanevik* (Norway) |
| P1.07.32          | Elucidating the role of IL4/IL13 signaling in tuberculous granuloma formation  
|                   | *Miriam Herbert, Mark R. Cronan* (Germany) |
| P1.07.33          | Exploring distinct T-cell subsets in the upper respiratory tract during Influenza A and Bordetella pertussis infections  
|                   | *Anna Kratcovilová, Jana Holubová, Ondrej Stanek, Veronika Niederlová, Juraj Michálík, Peter Sebo, Ondrej Stepanek* (Czech Republic) |
| P1.07.34          | IL-36 receptor expression is required to mount effective dendritic cell responses upon exposure to Staphylococcus aureus  
|                   | *Sam McGlynn, Patrick T. Walsh* (Ireland) |
| P1.07.35          | SLAMF7 and SLAMF8 receptors shape human plasmacytoid dendritic cell responses to intracellular bacteria  
|                   | *Joaquin Pellegrini, Anne Keriel, Laurent Gorvel, Sean Hanniffy, Vilma Arce Gorvel, Míle Bosilkovski, Javier Solera, Stéphane Méresse, Sylvie Mémet, Jean Pierre Gorvel* (France, Spain) |
| P1.07.36          | The role of extracellular vesicles in oral squamous cell carcinoma- Candida interaction  
|                   | *Éva Veres, Zóra Szilovics, Dóra Adamecz, Gergő Svorjen, Krisztina Buzás, Mónika Kiricsi, Attila Gacser* (Hungary) |
| P1.07.37          | Can trained immunity decrease *Candida albicans* induced cancer progression in human oral epithelial cells?  
|                   | *Máté Lajos Csikós, Zsolt Tasi, Máté Vadovics, Csaba Papp, Petra Molnár, Attila Gacser* (Hungary) |
| P1.07.38          | Transcriptomic signature of pediatric sepsis  
|                   | *Koichi Yuki, Sophia Koutsogiannaki* (USA) |
P1.07.39 Memory γδT cells demonstrate a unique metabolic profile resulting in enhanced protection against *Staphylococcus aureus*  
**Brenda Morris, Eoin O’Brien, Simon Carlile, Rachel McLoughlin** *(Ireland)*

P1.07.40 Pneumococcal surface protein A (PspA) prevents killing of *Streptococcus pneumoniae* by the antimicrobial peptide indolicidin  
**Natalha T. Waz¹, Barbara Milani¹, Maria Eduarda P. Mendes¹, Emilly Rodrigues¹, Anders Hakansson², Thiago Rojas Converso¹, Michelle Darrieux¹ (¹Brazil, ²Sweden)

P1.07.41 Effect of in vitro indolicidin treatment in polymyxin-susceptible and polymyxin-resistant Acinetobacter baumannii  
**Natalha T. Waz, Jhosany R. Madeira, Clarissa O.A. Ramos, Raquel Girardello, Michelle Darrieux** *(Brazil)*

P1.07.43 Antibody levels and predictors for low response to childhood vaccines among 7–14-year-old children in Norway  
**Johanna Bodin, Nina Iszatt, Marta Baranowska-Hustad, Berit Berit Brunstad Granum, Thea Kristine Rogne Møller, Tove Karin Herstad, Audun Aase, Merete Åse Eggesbø, Gro Tunheim** *(Norway)*

P1.07.44 Mice deficient for either interleukin-27 receptor-alpha or Eppstein-Barr virus-induced gene 3 are differentially susceptible to Mycobacterium tuberculosis infection  
**Kristina Ritter, Alexandra Hölscher, Johanna Volz, Jochen Behrends, Hanna Erdmann, Christoph Hölscher** *(Germany)*

P1.07.45 Exploring the effect of Leishmania infantum and *Trypanosoma cruzi* extracellular vesicles on dendritic cell-lymphocyte interactions  

P1.07.46 Exploring the immunomodulatory properties of zymosan on human peripheral blood mononuclear cells: an in vitro study  
**Elżbieta Kozłowska, Justyna Agier, Sylwia Różalska, Aleksandra Góralczyk-Bińkowska, Paulina Żelechowska** *(Poland)*

P1.07.48 Development of an ex vivo bronchoalveolar lavage model towards in vivo neonatal non-human primate models of respiratory infections  
**Alistair Ridyard, Claire-Maelle Fovet, Laetitia Lacroix, Camille Pimienta, Julie Morin, Nathalie Bosquet, Quentin Pascal, Francis Relouzat, Elisabeth Menu, Roger Le Grand, Nabilo Seddik** *(France)*

P1.07.49 Interleukin-32 producing CD8+ memory T cells define IDO1 / PD-L1 niche in human cutaneous leishmaniasis  
**Nidhi Sharma Dey¹, Shoumit Dey¹, Naj Brown¹, Sujay Senaratne², Luiza Campos Reis³, Ritika Sengupta⁴, Shalindra Ranasinghe², Mitali Chatterjee⁴, Paul Kaye, Hiro Goto³ (¹United Kingdom, ²Sri Lanka, ³Brazil, ⁴India)*

P1.07.50 Impaired NK cell response contributes to ageing-associated susceptibility to *Pneumococcal pneumonia*  
**Rong Xu, Daan Beentjes, Laura C. Jacques, Daniel R. Neill, Neil French, Aras Kadioglu** *(United Kingdom)*
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P1.07.51 Towards novel COVID-19 therapy based on natural products with anti-SARS-CoV-2 activity
Dorentina Osmani, Stine Hellesto, Fan Zhou, Manpreet Hans, Vilde Sigfrid Skar Bulling, Malgorzata Dominika Szymczak, Knut Teigen, Rebecca Jane Cox Brokstad, Marta Kaminska, Torgils Fossen, Silke Appel (Norway)

P1.07.52 Serum calprotectin in severe and mild COVID-19 patients
Germà Julià Agulló, Marc Pedrosa Aragon, Juan Francisco Delgado de la Poza, Silvia Vidal Alcorisa (Spain)

P1.07.53 Regulation of NLRP3 inflammasome-related gene expressions in the progression to chronicity in brucellosis with bone joint involvement
Tugba Senbuz, Muhammed Ali Kizmaz, Ali Eren Iskin, Abdurrahman Simsek, Tugce Bozkurt, Gülçin Tezcan, Ferah Budak (Turkey)

P1.07.54 Schistosoma mansoni proteases and their effect on host extracellular vesicle production: a strategy to modulate the immune system
Michael Thaler1, Lukas Neuninger1, Magda Wysmolek1, Agnieszka Razim1, Anna Schmid1, Jan Dvořák2, Martin Horn2, Adrian Leontovyč2, Michael Mareš2, Muhammed Faruk Saglam1, Viktor Cerny1, Aleksandra Inic-Kanada1, Ursula Wiedermann Schmidt1, Irma Schabussova1 (Austria, Czech Republic)

P1.07.55 Toll-like receptor 4 improves replication of Chlamydia trachomatis serovar D in the uroepithelial T24/83 cell line
Svetlana Kuhn, Simone Albrecht, Lina Kellner, Xaver Rait, Hannah Griffiths, Carolina De La Torre, Norbert Gretz, Thomas Miethke (Germany)

P1.07.56 Antibody-based approaches for studying potential adhesion proteins of Gardnerella spp.
Indre Dalgediene, Aistė Bulavaitė, Raminta Reskeviciute, Danas Ivanauskas, Aurelija Zvirbliene, Mildā Plečkaitē (Lithuania)

P1.07.57 Promising vaccine antigens against Klebsiella pneumoniae reduce bacterial burden in a sepsis model
Yueran Hou1, Paulina Zarodkiewicz2, Julen Tomás Cortázar1, Dominic Stoner1, Miguel Valvano2, Rebecca Ingram2, Siobhán McClean1 (Ireland, United Kingdom)

P1.07.58 Genetic deficiency of long pentraxin 3 dampens Staphylococcus aureus infection in a murine model of osteomyelitis
Raffaella Parente1, Valentina Possetti1, Dario Strina1, Valentina Granata1, Francesca Liberati1, Maria Lucia Schiavone1, Sonia Valentino1, Maša Filipović2, Nataša Kovačić2, Danko Grčević2, Barbara Bottazzi1, Alberto Mantovani1, Cristina Sobacchi1, Antonio Inforzato1 (Italy, Croatia, United Kingdom)

P1.07.59 Chemical and infectious colitis models show different immune profiles
Elena Blázquez-López, Marta Fernández-Castillo, Ainara Barco-Tejada, Marjorie Pion, Rafael Correa-Rocha, Patricia Múñoz, Manuel Desco, Lorena Cussó (Spain)

P1.07.60 Triacetylfusarinine C (TAFC) as a potential diagnostic biomarker of invasive pulmonary aspergillosis
Kristyna Sloupenska, Vladimir Havlicek, Hynek Macha, Radim Dobias, Milan Raska (Czech Republic)

P1.07.61 B-cell responses induced by Neoehrlichia mikurensis infection in patients with malignant B-cell lymphomas
Rima Alsalihi, Linda Wiss, Anna Grankvist, Beatrice Bergström, Catharina Lewerin, Christine Lingblom, Christine Wennerås (Sweden)
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P1.07.62 Immune programs in human dendritic cells upon immunization with *Chlamydia trachomatis*
Katja Knapp, Marlene Kranawetter, Ruth Dingelmaier-Hovorka, Ram Pandey, Christoph Grimm, Georg Stary (Austria)

P1.07.63 Microbial SIMs: role in inflammatory balance
Vani Janakiram (India)

P1.07.64 Immunometabolic profiling of myeloid cells in pediatric patients represents a tool how to depict the dynamics of sepsis progression
Marcela Hortova-Kohoutkova¹, Lukas Homola¹, Gabriela Blazkova¹, Rafael Argüello², Jan Frič¹ (¹Czech Republic, ²France)

P1.07.65 Influence of the infection by *Mycobacterium tuberculosis* on the host’s ability to control viral superinfection
Joan Fine, Valentin Sencio, Jonathan Chatagnon, Francois Trottein, Arnaud Machelart (France)

P1.07.66 Impact of *Mycobacterium tuberculosis* infection on host and macrophages response against *Streptococcus pneumoniae* superinfection
Valentin Sencio, Joan Fine, Arnaud Machelart (France)

P1.07.67 The function of CD14+HLA-DR-/low monocytic myeloid-derived suppressor cells in the pathogenesis of dermatophytic infection
Praveen Kumar Singh, Shukla Das, Gargi Rai, Mohammad Ahmad Ansari (India)

P1.07.68 Bottling it all up: using parasite population biology to identify susceptibility pathways in leishmaniasis
Ciara Loughrey, Paul Kaye, Jeremy Mottram, Naj Brown, Helen Ashwin, Juliana Carnielli, Shoumit Dey (United Kingdom)

P1.07.69 Synergistic effect of Interferon-γ and interleukin-6 in *Chlamydia trachomatis* induced reactive arthritis
Praveen Kumar, Suchitra Morya, Bhupendra Mandawat, Sangita Rastogi (India)

P1.07.70 Development of broadly-reactive monoclonal antibodies against β-lactamases conferring bacterial resistance to antibiotics
Indrė Kučinskaite-Kodžė, Karolina Bielské, Silvija Juciutė, Aliona Avižinienė, Rasa Petraitytė Burneikienė, Aurelijā Zvirbliene (Lithuania)

P1.07.71 An HLA-E-targeted TCR bispecific molecule redirects T cell immunity against Mycobacterium tuberculosis
Marco Pio La Manna¹, Luis Godinho², Giusto Davide Badami¹, Mariolina Salio², Nadia Caccamo¹, Francesco Dieli¹ (¹Italy, ²United Kingdom)

P1.07.72 Distinct impact in the cytokine production by adaptive and innate immunity in trypanosoma cruzi-infected mice following alcohol consumption
Mariléia Chaves Andrade, Paulo Henrique Tolentino Moura, Diego Patrick Soares Lopes, Waldemar de Paula-Júnior (Brazil)

P1.07.73 Growth-stage-dependent changes in porphyromonas gingivalis OMVs boost virulence and immune activation
P1.07.74  Porphyromonas gingivalis LPS antagonism is dependent on TLR4 concentration  

P1.07.75  Introducing StrepScan: a phage-based platform for deep serological profiling of the Group A Streptococcus antibodiome  
**Lauren Carlton¹**, Reuben McGregor¹, Tim O’Donnell², Elliot Merritt², Charles Tiu³, Madeline Kwek³, Linfa Wang³, Mark Davies⁴, Uri Laserson², Nicole Moreland¹ (¹New Zealand, ²Singapore, ³Australia)

P1.07.76  THE Covid-19 pandemic changed the specific maternal-neonatal immunity against respiratory syncytial virus: an observational study  
**Maria Giulia Conti**, Leonardo Sorrentino, Laura Petrarca, Enrica Mancino, Greta Di Mattia, Alessandra Pierangeli, Raffaella Nenna, Fabio Midulla (Italy)

P1.07.77  Cellular and molecular dynamics of splenic myeloid cells during blood-stage malaria  
**Katharina Mauel¹,²**, Daria Hirschmann¹,², Nelli Blank-Stein¹, Marie-Louise Diefenbach-Wilke¹, William Heath³, Lynette Beattie², Elvira Mass¹ (¹Germany, ²Australia)

P1.07.78  Dual burden of COVID-19 and tuberculosis: a retrospective study of clinical outcomes  
**Nadeem Fazal**, Konul Karimova, Afa Khalilova, Bahar Graefen (Azerbaijan)

P1.07.79  Leishmania donovani: CD2 biased immune response skews the SAG mediated therapy for a predominant Th1 response in experimental infection  
**Sukrat Sinha** (India)

P1.07.80  *Lactobacillus salivarius* HunMin-U boosts innate immunity against norovirus infection  
**Juwon Choi**, Da Hyun Kim, Jae Hwan Kim, Sanguine Byun, Myeong Soo Park (South Korea)

P1.07.81  Detection of chimeric secretory IgA: TB multi-epitopes protein in milk samples and protein purification in development of mucosal vaccine against tuberculosis  
**Min Xuan Keh¹**, Nur Ain Binti Mohd Asri¹, Norazmi Bin Mohd Nor¹, Frank Camacho², Rapeah Binti Suppian¹, Maryam Azlan¹ (¹Malaysia, ²Chile)

P1.07.82  Bacillus Calmette-Guérin (BCG) vaccine’s role in modulating immune responses against severe acute respiratory syndrome coronavirus 2 (SARS-COV-2) and respiratory syncytial virus (RSV) in children  
**Magdalena Jurczak**, Joanna Kaczmarek, Magdalena Kowalewska-Pietrzak, Magdalena Druszczynska (Poland)

P1.07.83  Harnessing the host’s innate immune response with a novel, bifunctional immunotherapy to treat Gram-negative bacterial infections  
**Bailey Hairsine¹**, Hassan Al-Bewani¹, Edward Rhodes¹,², Adam Johnson¹, Matthew Bushdyhan¹, Dave Chapman¹, Mike Westby¹, Helen Bright¹ (¹United Kingdom, ²Sweden)
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P1.08 BIOINFORMATICS AND IMMUNOLOGY

P1.08.02 A comprehensive immune single-cell atlas of (auto)immune-related diseases: exploring disease and treatment risks in cancer immune-checkpoint therapy
António Sousa, Sini Junttila, Laura Elo (Finland)

P1.08.03 Towards deciphering the T cell receptor-antigen-HLA code with single cell genomics
Lisa Dratva, Lorenz Kretschmer, Yizhou Yu, Krzysztof Polanski, Lisa Marie Milchsack, Sarah Teichmann (United Kingdom)

P1.08.05 Identification of transcriptional regulatory networks that control variable human immune responses
Anthony Bertrand, Florian Dubois, Lluis Quintana-Murci, Violaine Saint-André, Darragh Duffy (France)

P1.08.06 Exploring systemic immune response and faecal microbiome associations in the Milieu Intérieur healthy donor cohort
Auxence Desrentes, Etienne Villain, Vincent Bondet, Jamie Sugrue, Allyson Byrd, Lluis Quintana-Murci, Darragh Duffy (France)

P1.08.07 A unique human cord blood CD8+CD45RA+CD27+CD161+ T cell subset identified by flow cytometric data analysis using Seurat
Duan Ni, Julen Reyes, Brigitte Nanan, Gabriela Pinget, Lucie Kraftova, Thomas Ashhurst, Felix Marsh-wakefield, Claire Wishart, Jian Tan, Peter Hsu, Nicholas King, Laurence Maia, Ralph Nanan (Australia)

P1.08.08 Comprehensive post-translational modifications mapping of centrosomes in T cell activation
Marta Lozano-Prieto, Noa Martín Cófreces, Inmaculada Jorge Cerrudo, Emilio Camafeita Fernández, Andrea Laguillo Gómez, Enrique Calvo Alcocer, Cristina Amparo Devesa Arbiol, Rafael Barrero Rodríguez, Jesús María Vázquez Cobos, Francisco Sánchez-Madrid (Spain)

P1.08.09 Unraveling the autoimmune cellular and histological transitions of Sjögren's syndrome
Tomás Gomes¹, Rui do Amaral Vieira¹, Vasco Romão¹, Saumya Kumar², Filipa Ribeiro¹, Pedro Ribeiro¹, Matilde Bandeira¹, Beatriz Filipe¹, Dolores López-Presa¹, João Forjaz-Lacerda¹, Nikita Khmelinskii¹, João Eurico Fonseca¹, Luis Graça¹
(¹Portugal, ²Germany)

P1.08.10 Blood immune cells of post-COVID-19 syndrome patients present with distinct alterations in their transcriptional states
Charlotte Kröger, Sophie Müller, Lorenzo Bonaguro, Rainer Knoll, Martina van Uelft, Jonas Schulte-Schrepping, Sophie Steiner, Julie-Anne Gabelich, Sophia Brumhard, Anna Hiller, Annick D. Fehrer, Sarah Ahmad, Gudrun Hack, Kim Melanie Kaiser, Helma Freitag, Matthias Becker, Manfred Schmolz, Marc Beyer, Franziska Sozny, Benjamin Krämer, Jacob Nattermann, Leif Erik Sander, Joachim L. Schultze, Carmen Scheibenbogen, Anna C. Aschenbrenner (Germany)

P1.08.11 The dog as the immunologist’s best friend for identifying potential genomic biomarkers for atopic dermatitis: an integrated bioinformatic analysis with translational potential
Carolina R. Sanz, Inés Rodríguez, Soledad Sanz-Alférez (Spain)

P1.08.12 Computational stabilization and functional characterization of single-chain T cell receptors targeting a cancer epitope
Johanna Moeller, Max Alexander Lingner, Victoria Most, Clara Tabea Schoeder (Germany)
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P1.08.13 A simple and robust bulk TCR sequencing-based method for identification of antigen-specific TCRαβ pairs
Evgeny Egorov1, Ekaterina Serebrovskaja1, Lilian Andrea Martinez Carrera1, Nojan Jelveh1, Kevin Bisdorf2, Simona Karolin Matzke1, Svetlana Khorkova1, Andreas Bosio1, Dmitriy Chudakov2, Olaf Hardt1 (Germany, 2Czech Republic)

P1.08.14 Development of an user-friendly application for automated analysis of skin immune landscape based on the multiplex annotated tissue imaging system technology
Manon Scholaert1, Raissa Houmadi1, Jeremy Martin1, Nadine Serhan1, Marie Tauber1, Emilie Braun1, Mathias Peries1, Lilian Basso1, Eric Merles2, Pascal Descargues2, Carle Paul1, Cristina Bulai Livideanu1, Laurence Lamant1, Emeline Pages1, Nicolas Gaudenzio1 (France, 2USA)

P1.08.15 Glycosyltransferase and glycosidase changes in Natural Killer (NK) cells after cytokine stimulation; a bioinformatic analysis
Catherine Bannon, Roisin O’Flaherty, Mark Robinson (Ireland)

P1.08.16 Genetic signature for early prediction of anti-TNF response in rheumatoid arthritis patients
Lucía Santiago Lamelas1, Joseﬁna Durán2, Enrique J. de Andrés Galiana1, Juan Luis Fernández Martínez1, Patricia Castro Santos1, Roberto Díaz Peña1 (Spain, 2Chile)

P1.08.17 Employing single-cell RNA sequencing dataset analysis to probe the functional and metabolic state of NK cells inﬁltrating Glioblastoma tumour sites, and comparing them to the transcriptomic proﬁles of circulating NK cells derived from healthy donor datasets
Andrew Roche, David Finlay, Clair Gardiner (Ireland)

P1.08.19 Integrated analysis of single-cell and bulk RNA sequencing data reveals a memory-like Natural Killer cell subset associated with Mycobacterium tuberculosis latency
Giusto Davide Badami, Mojtaba Shekarkar Azgomi, Marianna Lo Pizzo, Bartolo Tamburini, Costanza Dieli, Marco Pio La Manna, Francesco Dieli, Nadia Caccamo (Italy)

P1.08.20 Identiﬁcation of relevant tissue-speciﬁc factors regarding the formation and maintenance of human tertiary lymphoid structures
Tomás Guerreiro, Rui do Amaral Vieira, Beatriz Filipe, Pedro Gaspar, Luís Graça, Tomás Gomes (Portugal)

P1.08.22 Human DNA adaptome: the unbiased multiplex PCR-based proﬁling of the whole set of TCR and BCR chains at the DNA level
Anna Miroshnichenkova1, Bella Minasyan1, Valeria Tkachenko2, Anna Fedosova1, Oleg Suchalko1, Pavel Shelyakin1, Dmitriy Chudakov1,3, Alexander Komkov1 (United Arab Emirates, 2Russian Federation, 3Czech Republic)

P1.08.23 VISH-Pred: an ensemble of ﬁne-tuned ESM models for protein toxicity prediction
Ankita Singh, Raghvendra Mall, Chirag Patel, Gregory Guirimand, Filippo Castiglione (United Arab Emirates)

P1.08.25 Multi-omic single cell analysis reveals immune cell perturbations in sepsis
Joshua Flynn1, Anne-Marie Baird1, Eamon Breen1, Ciara McNevin1, Lisa McDermott1, Elaine Kenny1, Edyta Kowalczyk2, John Davis Coakley1, Thomas Ryan1, Derek G. Doherty1, Orla Sheils1 (Ireland, 2USA)
P1.08.26 Computational identification of long non-coding RNAs from T-cell subtypes
Sini Junttila, Niklas Paulin Paulin, Inna Staraskaia, Tea Ammunét Ammunét, Ubaid Ulah Kalim, Omid Rasool, Tanja Buchacher, Syed Bilal Ahmad Andrabi, Riitta Lahesmaa, Laura Elo (Finland)

P1.08.27 Single-cell RNA sequencing coupled with AI-based structure prediction using AlphaFold enables discovery of antibodies against the SARS-CoV-2 Spike protein
Elif Çelik, Eren Can Ekşi, Efe Elbeyli, Cevriye Pamukcu, Tolga Sutlu (Turkey)

P1.08.28 Central role of integrin complex in A151 oligodeoxynucleotide-induced immune modulation in mouse splenocytes
Volkan Yazar¹, Ismail Cem Yılmaz², Artun Bulbul³, İhsan Gürsel⁴ (Turkey, ²Germany)

P1.08.29 Simultaneous profiling of one million single-cell BCRs and whole transcriptomes from diseased and healthy B cells in a single experiment using combinatorial barcoding
Alex Stretton, Ajay Sapre, Efthymia Papalexi, Alec Salvino, Simone Marrujo, Gary Geiss, Guillermo Gallareta-Olivares, Charlie Roco, Alex Rosenberg (USA)

P1.08.30 Investigating the role of enhancer elements in mediating monocyte stimulus response with single-cell multi-omics
Surya Koturan¹, Shev Acharya¹, Noemí De Broeck², Ivan Andrew¹, Laurence Game¹, Bhavik Patel¹, James Elliot¹, Amit Patel¹, Simon Yona², Valeriya Malysheva², Mikhail Spivakov¹ (¹United Kingdom, ²Belgium, ³Israel)

P1.09 CANCER IMMUNOTHERAPY

P1.09.01 Programmed salmonella blocks cancer metastasis by activating NK cells in an IFN-γ-dependent manner
Li Rong, Qiubin Lin, Shuhai Lin, Guo Fu, Jiandong Huang (China)

P1.09.02 Ex vivo modeling of precision immuno-oncology responses in lung cancer
Bassel Alsaeed, Johannes Smolander, Linh Lin, Lilja Lahtinen, Hanna Laitinen, Mikko Rasanen, Ville Heistman, Shadi Jansouz, Mari Ainola, Eva Sutinen, Pipsa Saharinen, Ilkka Itonen, Heidi Haikala (Finland)

P1.09.03 CD40 agonist affects maintenance of B-cell acute lymphoblastic leukemia in patient-derived xenograft mouse models
Pierre-Simon Bellaye, Paola Ballerini, Corentin Richard, Romain Boidot, Guillaume Chevreux, Véronique Legros, Aleksandra Georgievski, Julien Guy, Jessica Racine, Bertrand Collin, Carmen Garrido, Ronan Quéré (France)

P1.09.04 Fractalkine: a chemokine with pro-tumourigenic effects in oesophageal adenocarcinoma that can be attenuated by CX3CR1 modulation
Caroline Marion, Eimear Mylod, Niamh O’Conno, Meghana Menon, John V. Reynolds, Maeva Lowery, Niamh Lynam-Lennon, Stephen Maher, Joanne Lysaght, Melissa J. Conroy (Ireland)

P1.09.05 Anti-tumoral potential of the new granulysin-based and Tn/MUC-1-targeted 5E5GRNLY immunotoxin
Ana Pilar Tobajas, Raquel Ibáñez-Pérez, Patricia Guerrero-Ochoa, Ruth Soler-Agesta, Evelyn Galano-Frutos, Laura Cambronero, Blanca Conde, Eva Barrio, Ramón Hurtado-Guerrero, Alberto Anel (Spain)
P1.09.06 Combination of the granulysin-based and CEA-targeted MFE23GRNLY immunotoxin with a BCLXL-selective BH3-mimetic in a lung cancer model
Raquel Ibáñez-Pérez, Ana Pilar Tobajas, Patricia Guerrero-Ochoa, Laura Cambronero, Ruth Soler-Agesta, Isabel Marzo, Javier Naval, Laura Sanz, Alberto Anel (Spain)

P1.09.07 Effect of the HLA-G/ILT2 pathway as an immune system checkpoint in gastric cancer
Christian Vaquero-Yuste, Oscar Aguilar Sopena, Inmaculada Lasa-Unzue, Adela Lopez-García, Remedios Gomez-Sanz, Alberto Gutierrez-Calvo, Pedro Roda Navarro, Jose Manuel Martin-Villa, Ignacio Juarez (Spain)

P1.09.08 UniCAR T-cell potency - A matter of affinity?
Hugo Boutier, Liliana Rodrigues Loureiro, Lydia Hoffmann, Claudia Arndt, Anja Feldmann, Michael Bachmann (Germany)

P1.09.09 Development of patient-derived 3D tumor organoids combined with immune cells, as preclinical testing platform for personalized cancer immunotherapy
Gabriella Antignani (Finland)

P1.09.10 Unveiling the potential of oncolytic virotherapy in inducing tertiary lymphoid structures for enhanced anti-tumor responses
Ana Houel, Johann Foloppe, Marie-Caroline Dieu-Nosjean (France)

P1.09.11 First-in-class inhibitors of ERAP1 generate novel cancer antigens as targets for mhc-i-directed therapies
Wayne Paes, Sam Humphrey, Juanita Carrey, Kris Clark, Emma Sparrow, Ana Ribeiro, Michael Kundell, Milos Aleksic, Henry Leonard, Ali Remtulla, Michael Pinggera, Kate Anderton, Jason Shiers, Juliet Morgan, Maik Mueller, Nicola Ternette, Martin Quibell, Peter Joyce (United Kingdom)

P1.09.12 CCL20 is upregulated in KRAS-driven non-small cell lung cancer via a FOXL2 - NF-κB axis and displays prognostic ambivalence
Oliver Kindler1, Philipp Moser1, Kathrin Maitz1, Anna Lueger1, Marah Runtsch1, Eva Achhammer1, Ana Santiso1, Vito Telebar-Zbulji1, Xiaodong Zhu2, A. McGarry Houghton2, Vanessa Jäger1, Michael Dengler1, Philipp Jost1, Julia Kargl1 (1Austria, 2USA)

P1.09.13 Breaking boundaries: next-level γδ-T cell isolation with REAlease
Vanessa Brühl, Maike Lang, Christin Donner, Ermanila Dhana, Lotta Räty, José Alberto Villacorta Hidalgo, Susanne Höher-Peters, Gregor Winkels (Germany)

P1.09.14 Transforming growth factor β inducer as a novel secreted immune checkpoint counter-inhibiting tumor-associated T cells
Eleonora Timperi1, Manuela Rosado1, Ombretta Melaiu1, Sophie Bachy1, Alessio Grimaldi1, Maria Chiara Corrado1, Vanessa Mancini1, Gabriela Leonte1, Filippo Conti1, Ilenia Cammarata16, Stephanie Kucykwicz2, Gloryanne Aidoo-Mich2, Daniele Accapezzato1, Laura Forcina1, Andrea Picchetto1, Massimo Chiaretti1, Giancarlo Dambrosio1, Giuseppe Giannini1, Francesca Belardinelli1, Gian Luca Grazi1, Antonio Musarò1, Mala K. Maini2, Dorian Fruci1, Ana Hennino1, Vincenzo Barnaba1 (1Italy, 2United Kingdom)

P1.09.15 Split identity of IFNγ in remodeling of undifferentiated pleomorphic sarcoma cell line JBT19 towards chemotherapeutic resistance and anti-tumor immunity and its implication for adoptive cellular immunotherapy
Pavla Táborská, Dmitry Stakheev, Daniel Smrž (Czech Republic)
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P1.09.16 Improving CAR-T cell immunotherapy with CRISPR/Cas9 gene editing
Andrea Šarac, Karen Butina Ogorelec, Jelka Pohar, Simon Horvat, Anže Smole
(Slovenia)

P1.09.17 Targeting cellular metabolism for modulation of T lymphocytes function
Mojca Pavlin¹, Jernej Repas¹, Tadeja Snedec¹, Tjaša Frlic¹, Andreja Natasa Kopitar¹,
Andrej Janež¹, Harald Sourij² (Slovenia, ²Austria)

P1.09.18 Semaglutide as a potent activator of anti-tumor immune response in breast cancer
Isidora Stanisavljevic, Ivan Jovanovic, Bojana Simovic Markovic, Irfan Corovic,
Tamara Krajnovic, Sanja Mijatovic, Sladjana Pavlovic (Serbia)

P1.09.19 2-deoxy-D-glucose and metformin alter effector functions of T cells from peripheral
blood mononuclear cells
Tjaša Frlic, Tadeja Snedec, Jernej Repas, Mojca Pavlin (Slovenia)

P1.09.20 Targeting the sialic acid-Siglec glyco-immune checkpoint in melanoma
Magali Cocccimiglio, Laura Kruijssen, Ernesto Rodriguez Camejo, Babet Springer,
Fabrizio Chiodo, Yvette van Kooyk (Netherlands)

P1.09.21 Assessment of the efficacy of a monoclonal antibody against pancreatic tumour cells by
complement-dependent cytotoxicity assay
Diana Ceballos Francisco¹, Inmaculada Ruiz Lorente¹, Maria Victoria Martinez
Sánchez¹, Lourdes Gimeno Arias¹, Marta Pares¹, Sebastian Heidt², Fran Claas²,
Matthias Niemann², Eric Spierings³, Victor Pallaruelo-Santamaría¹, Cristina Fillat¹,
Alfredo Minguela Puras¹ (Spain, ²Netherlands, ³Germany)

P1.09.22 DSP502 – A novel approach for targeting TIGIT and PD-1 for cancer immunotherapy
Lucy Ghantous, Esther Stern, Ori Wald, Shirley Greenwald, Jasmine Avichzer, Lior
Tsveyer, Jacob Rachmilewitz, Michal Dranitzki Elhalel, Ayelet Chajut (Israel)

P1.09.23 A new pathway towards immunotherapy-supported radiology
Klaus Spohr, Marius Jurca, Neagu Teodora Monica, Paunescu Virgil (Romania)

P1.09.24 Metformin promotes antitumor activity of NKT cells via overexpression of NFAT and
STAT4
Andela Petrović, Ivan Jovanovic, Bojan Stojanovic, Milena Jurisevic, Bojana Simovic
Markovic, Marina Jovanovic, Milan Jovanovic, Milhailo Jovanovic, Nevena Gajovic
(Serbia)

P1.09.25 Phenotypic and functional analysis of cytokine-induced memory-like natural killer cells
Isabel Maria Vallejo Bermúdez, Monica Espinar Garcia, Carmen Maria Gutiérrez
González, Ester Irene Reina Alfonso, Pablo Álvarez Heredia, Alexander Batista
Duharte, Alejandra Pera Rojas, Raquel Tarazona, Rafael Solana Lara, Fakhri
Hassouneh (Spain)

P1.09.26 Sex differences in immune checkpoint receptor expression in patients with upper
gastrointestinal malignancies: potential implications for patient response to immune
checkpoint inhibitor therapy
Aoife Kilgallon, Meghana Menon, Kirstan Murphy, Brendan Moran, John V.
Reynolds, Joanne Lysaght (Ireland)
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P1.09.27 Role of ion channels in CAR T cells
Ghofrane Medyouni, Vivien Jusztus, Orsolya Vörös, György Panyi, Péter Béla Hajdu (Hungary)

P1.09.28 Miniaturization of T cell cultivation and utilization for process development

P1.09.29 Polymorphonuclear myeloid-derived suppressor cells impair the anti-tumor efficacy of GD2. CAR T-cells in patients with neuroblastoma
Nicola Tumino¹, Gerrit Weber², Francesca Besi¹, Francesca Del Bufalo¹, Valentina Berolina¹, Paola Paci¹, Linda Quatlini¹, Matilde Sinibaldi¹, Concetta Quintarelli¹, Biagio De Angelis¹, Franco Locatelli¹, Lorenzo Moretta¹, Ignazio Caruana², Paola Vaccar¹ (Italy), ²Germany)

P1.09.30 Development of novel anti BCMA (B cell maturation antigen) antibody as a live cell therapy candidate in multiple myeloma
Ashna Gupta, Gunjan Dagar, Ravi Chauhan, Kalpana Luthra, Mayank Singh (India)

P1.09.31 Continuous B cell destruction and regeneration is crucial for effective response to anti CD19 CAR-T cell therapy
Neta Nevo, Neta Milman, Tim J. Cooper, Tsila Zuckerman, Shai S. Shen - Orr (Israel)

P1.09.32 Local repeated delivery of checkpoint blockade therapy through an actutable reservoir to treat ovarian cancer
Hannah Prendeville, Aoibhin Sheedy, Michael O’Dwyer, Garry Duffy, Eimear Dolan (Ireland)

P1.09.33 Adeno-associated virus-mediated IL-10 delivery reduces the infiltration of tumor-associated macrophages and suppresses tumor growth in hepatocellular carcinoma
Yu-Hsin Hsu, Yu-Wen Wang, Ya-Hui Chuang (Taiwan)

P1.09.34 The impact of antigen-binding domains on antigen-directed and tonic chimeric antigen receptor (CAR) signaling
Vivian Haas, Markus Barden, Patrick Elsenbroich, Moritz Ertelt, Hinrich Abken, Clara Tabea Schoeder (Germany)

P1.09.35 Identification of novel ICOS isoforms recurrently expressed in Sezary syndrome
Loubna Oumeslakht¹,², Armand Bensussan¹,², Jerome Giustiniani², Sanee Benmkaddem¹, Nicolas Ortonne² (Morocco), ²France)

P1.09.36 Leveraging single B cell technologies in the development of anti-PD-L1 antibodies
Ali Mert Sencer, Bilgi Gungor, Asli Kurden-Pekmezci, Dogu Sayili, Ayca Zeybek Kuyucu, Serhat Ozgenc, Ceren Ulker, Sibel Kalyoncu, Mehmet Inan (Turkey)

P1.09.37 Computational free flow cytometry for Sézary cells identification and quantification
Thi Van Anh Ta, Elisabeth Cohen, Vial Jean Philippe, Veyrat-Masson Richard, Marie Beylot Barry, Martine Bagot, Adèle de Masson, Caroline Ram Wolff, Helene Moins (France)

P1.09.38 The MHC MACSimer technology combines flexibility, quality and releasability for the detection of antigen specific T cells
Urmi Roy, Lea Henschel, Lilly Geiger, Lennart Wessels, Gritt Günther, Marc Schuster, Jennifer Jaufmann, Marek Wieczorek (Germany)
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P1.09.39 Preparación de nanopartículas para evaluación del efecto antitumoral en un modelo de melanoma
Ariel Ramirez Cortes, Andres Elieu Castell Rodríguez, Miguel Herrera Enríque, Katya Jarquín Yáñez, Gabriela Piñón Zarate (Mexico)

P1.09.40 Enabling fast and convenient immune profiling of fresh and long-term stabilized human whole blood samples with CyTOF
Michael Cohen¹, Shakir Hasan¹, Stephen Li¹, Christina Loh¹, Dawar Pasha¹, Gloria Martrus Zapater² (¹Canada, ²Spain)

P1.09.41 Exposure to cancer spheroids leads to human NK cell degranulation and anti-tumor activity, which is enhanced with cytokine preactivation and/or cetuximab
Ainara Lopez-Pardo, Mario Stan Fontoba, Ainhoa Amarilla-Irusta, Victor Sandá, Gabirel Astarloa, Laura Amo, Francisco Borrego (Spain)

P1.09.42 The impact of Fc receptors and host characteristics on myeloid phagocytic response to rituximab-treated 3D-cultured B-cell lymphoma
Sandra Kleinau (Sweden)

P1.09.43 Deciphering the role of immune microenvironment during CD19 CAR-T treatment in leukemia
Mathilde Chambre, Lisa Aziez, Ismael Boussaid, Rudy Birsen, Marguerite Vignon, Didier Bouscary, Justine Decrooqc, Nicolas Chapuis, Yannick Simoni (France)

P1.09.44 Complexes of IL-2 and anti-IL-2 mAb selectively stimulating CD25+ T cells in combination with immune checkpoint inhibitors possess potent antitumor activity but the timing is crucial
Irfan Baki Kilic, Petra Weberova, Katerina Behalova, Bohumil Ptacek, Milada Sirova, Vladyslav Mazhara, Katerina Kubesova, Blanka Rihova, Marek Kovar (Czech Republic)

P1.09.45 CD25-biased IL-2-based immunocytokines in combination with immune-checkpoint inhibitors completely eradicate large established tumors in CD8+ T cell-dependent manner
Irfan Baki Kilic¹, Petra Weberova¹, Derek VanDyke², Milada Sirova¹, Katerina Kubesova¹, Charina S. Fabilane², Vladyslav Mazhara¹, Kathy Liu², Blanka Rihova¹, Jamie B. Spangler², Marek Kovar¹ (¹Czech Republic, ²USA)

P1.09.46 Introducing SequiMACS technology: pioneering multi-cell isolation in single complex blood samples
Rebecca Königsmark, Hassan Ahmed, Christian Keßel, Philipp Steinbrück, Susanne Höher-Peters, Vanessa Brühl, Christin Donner, Stefano Vergani, Gregor Winkels, Ermanila Dhana, Lotta Räty, Christian Dose, Jonathan Fauerbach (Germany)

P1.09.47 Antitumoral activity of bacterioruberin, a rare carotenoid from haloarchaea, in solid tumor models
Andrés Baeza-Morales, Miguel Medina-Garcia, Carolina Pujalte-Satorre, Sandra Pascual Garcia, Pascual Martinez-Peinado, Ana Belen Lopez-Jaen, Alicia Navarro-Sempere, Yolanda Segovia-Huertas, María Magdalena García-Irles, Rosa María Martínez Espinosa, Jose Miguel Sempere-Ortells (Spain)

P1.09.48 Viral infections for cancer immunotherapy
Yeaji Kim, Yong Woo Jung (South Korea)
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P1.09.49 Checkpoint molecules on antigen-loaded extracellular vesicles modulate their anti-tumoral effects in a mouse model of melanoma
Loïc Steiner, Loes Teeuwen, Annemarijn Offens, Gözde Güçlüer Akpınar, Daniel Martínez Martínez, Jesse Kuipers, Jules Mazouin, Benedict Chambers, Susanne Gabrielsson (Sweden)

P1.09.50 Phenotypic analysis of cytokine-induced killer cells (CIK): identification of receptors involved in their functional capacity
Fakhri Hassouneh, Nelson López-Sejas, Alejandra Pera Rojas, Carlos Blanco-Benitez, Rafael Solana Lara, Raquel Tarazona (Spain)

P1.09.51 Programmed death-ligand 1 expression on T lymphocytes is associated with β2-microglobulin Levels in treatment-naïve patients with chronic lymphocytic Leukaemia
Zekhethelo Mkwanazi, Aviwe Ntsethe, Bongani Nkambule, Tawanda Nyambuya, Phiwayinkosi Dludla (South Africa)

P1.09.52 Developing new and effective strategies for adoptive T- cell therapy in pediatric gliomas
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P1.09.53 Identification of different subsets of cytokine-induced memory-like NK cells according to their phenotypic and proteomic profile: correlation with effector function
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P1.09.54 Tumor-specific, AAV-mediated anti-PD-1 therapy combined with CAR-NK-cells as experimental immunotherapy for glioma
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P1.09.55 Potential of inhibition of NLRP3 inflammasome in enhancement of immunotherapy in prostate cancer
Kateřina Kalkušová, Dmitry Stakheev, Pavla Táborská, Jiřina Bartůňková, Daniel Smrž (Czech Republic)

P1.09.56 Towards the deciphering of immunological mechanisms of tumor immunotherapy-induced cardiotoxicity
Chiara Catalano, Marinos Kallikourdis (Italy)

P1.09.57 The effect of aberrant N-glycosylation of PD-L1 on the potency of anti-PD-1 treatments
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P1.09.58 The influence of the metabolic phenotype of CD8+ T cells on immunotherapy response in patients with non-small cell lung cancer (NSCLC)
Sze Ying Tan, Ella Kearney, Saoirse Flanagan, David O'Reilly, Jarushka Naidoo, Catriona Dowling (Ireland)

P1.09.59 Immunomodulatory effect of ferric/nickel nanoparticles in vitro
Lenka Rajsiglova, Dmitry Stakheev, Kateřina Krausová, Pavol Lukáč, Paolo Tenti, Michal Babic, Daniel Smrž, Luca Vannucci (Czech Republic)
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P1.09.61 Expression relationship of nectin-2 and immune checkpoint molecules in pancreatic cancer patients
Mualla İlkınur Gündüz, Rukiye Abanoz, Melek Gunindı Korkut, Berkay Yahşi, Nalan Akyürek, Füsun Özmen (Turkey)

P1.09.62 Assessing immune checkpoints on NK cells and the potential for immune checkpoint inhibition to reverse NK cell exhaustion in metastatic melanoma patients
Jack Behan, Eimear Mylod, Clair Gardiner, Fergal Kelleher (Ireland)

P1.09.63 Identifying vulnerabilities to immune checkpoint inhibitors of oncogene-addicted non-small cell lung cancer subgroups
Inés Díaz-Cano, José Gracia, Patricia Cozar, Belén Revuelta, Nuria Carrizo, Juan Dubrot, Luis Paz-Ares, Itziar Otano (Spain)

P1.09.64 Signatures of response to CD19 CAR-T-cells in diffuse large B-cell lymphoma
Luisa Ohlmeier, Jens Löber, Corinna Grunert, Antonia Busse;3, Björn Chapuy (Germany)

P1.09.65 Real-time visualization the efficacy of immunotherapy in the combination of radiation therapy and immune checkpoint inhibitor in cancer immunomodulatory
Terence Lee, Jinwoong Kim, Kubra Akyildiz, Hyungjin Kwon, Hyunseok Kim (South Korea)

P1.09.66 Loss of β2-integrin function results in metabolic reprogramming of dendritic cells, leading to increased dendritic cell functionality and anti-tumor responses
Heidi Harjunpää, Riku Somermäki, Guillem Saldo Rubio, Manlio Fusciello, Sara Feola, Imrul Faisal, Anni Nieminen, Liang Wang, Marc Llort Asens, Hongxia Zhao, Ove Eriksson, Vincenzo Cerullo, Susanna Fagerholm (Finland)

P1.09.67 The impact of the pancreatic tumour microenvironment on cytotoxic T lymphocyte migration and tumour eradication
Matteo Golo1, Maximiliane Finkbeiner1,2, Florence Piastra-Facon1,3, Feyza Colakoglu1, Szun Tay1, Celine Heu1, Renee Whan1, David Herrmann1, Paul Timpson1, Daryan Kempe1, Maté Biro1 (Australia, Germany, France)

P1.09.68 Investigating the applicability of KHYG-1 cell therapy for obesity-associated cancer
Joyce Barry, Caroline Marion, Eimear Mylod, Niamh O’Connor, Meghana Menon, John V. Reynolds, Maeve Lowery, Niamh Lynam-Lennon, Stephen Maher, Joanne Lysaght, Melissa J. Conroy (Ireland)

P1.09.69 Livecyte: analysis of T-cell killing interaction kinetics using label free imaging of T-cells
Meetal Jotangia, Jessica Rickman, Peter Djali, Giovanni Giangreco, Robert Koechl (United Kingdom)

P1.09.70 Anti-CD94-induced expansion of highly functional adaptive NKG2C+NKG2A−CD57+selfKIR+ NK cells from CMV-seropositive healthy donors
Chiara Giordano1, Simona Carlomagno1, Michela Falco1, Claudia Cantoni1, Massimo Vitale1, Ignazio Caruana2, Cristina Bottino1, Letizia Muccio1, Simona Sivori1, Mariella Della Chesa1 (Italy, Germany)

P1.09.71 Immune related hepatitis: a case report of acute hepatitis in cutaneous malignant melanoma treated with nivolumab and ipilimumab
Ece Tolgay, Alper Coşkun, Erdem Çubukçu, Türkkan Evrensel (Turkey)
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P1.10.04 Induction of mucosal immunity by different therapeutic HPV16 vaccination approaches
Ann-Katrin Schlosser, Kathrin Wellach, Philipp Uhl, Armin Kübelbeck, Angelika Riemer (Germany)

P1.10.05 Anti-tumor efficacy of a mesothelin-based nanovaccine in a KPC orthotopic mouse model of pancreatic cancer
Daniele Ferrari¹, Andrea Markus², Özmen Cobanoglu², Sana Sayedipour², Omar Luna³, Sonia Ferkel¹, David Agorku⁴, Luis Cruz³, Fernando Albericio⁴, Francois Trottein³, Frauke Alves¹, Fernanda Ramos-Gomes¹ (Germany, France, Netherlands, Spain)

P1.11 CELL COMMUNICATION AND SIGNALING

P1.11.01 Mapping the effect of PD1 immunoreceptor on T-cell receptor signalling
Martina Kreiderer¹, Myriam Nabhan¹, Donagh Egan¹, Muhammad Zainul Arifin¹, Vadim Zhernovkov¹, Kieran Wynne¹, Anisha Solanki², Rajat Varma², Paul Chariou², Ian Barrett², Claus Bendtsen², Simon Dovedi², Viia Valge-Archer², Donal Brennan¹, Walter Kolch¹ (Ireland, United Kingdom)

P1.11.02 Engineered albumin as an effector negative scaffold for tailored design of long acting antibody fragment fusions
Fulgencio Ruso-Julve, Siri Aastedatter Sakya, Anette Kolderup, Elias Tjärnhage, Sopisa Benjakul, Jeannette Nilsen, Stian Foss, Devin Sok, Inger Sandlie, Jan Terje Andersen (Norway)

P1.11.03 Mapping BTLA immunoreceptor signalling pathways in T-cells
Myriam Nabhan¹, Martina Kreiederer¹, Donagh Egan¹, Vadim Zhernovkov¹, Anisha Solanki², Rajat Varma², Paul Chariou², Ian Barrett², Claus Bendtsen², Simon Dovedi², Viia Valge-Archer², Donal Brennan¹, Walter Kolch¹ (Ireland, United Kingdom)

P1.11.04 Integrating seahorse real-time bioenergetics and click-uptake metabolic fluxes to unlock metabolic heterogeneity
Sakshi Sankhla, Maxim Nosenko, David Finlay (Ireland)

P1.11.05 Inflammatory cytokines and chemokines are synergistically induced by co-culture of corneal epithelial cells and neutrophils in the presence of particulate matter
Yasuhiro Yoshida, Zirui Zeng, Duo Wang (Japan)

P1.11.06 Characterization of a directed-evolution–generated mutant form of alpha1-antitrypsin
Tomer Eliyahu (Israel)

P1.11.07 E. coli O83 EVs interact with human and mouse airway cells
Agnieszka Razim¹, Agnieszka Zablocka², Anna Schmid³, Michael Thaler¹, Viktor Cerny¹, Tamara Weinmayer¹, Bradley Whitehead³, Anke Martens⁴, Magda Skalska², Mattia Morandi¹, Katy Schmidt¹, Marco Brucale¹, Francesco Valle¹, Magdalena Wysmolek¹, Peter Nejsum³, Jiri Hrdy⁴, Sabina Gorska², Lukas Wisgrill³, Aleksandra Inic-Kanada¹, Ursula Wiedermann¹, Irma Schabussova¹ (Austria, Poland, Denmark, Czech Republic)
P1.11.08 The BiST of Burden: Harnessing biased STING agonists to enhance the resolution of inflammation and limit tissue fibrosis
Nofar Ben Jasher, Sergei Butenko, Uzma Saqib, Sagie Schif-Zuck, Amiram Ariel (Israel)

P1.11.09 Antiapoptotic and cryoprotective effect of the carotenoid Bacterioruberin on peripheral blood mononuclear cells
Miguel Medina-Garcia, Pascual Martinez-Peínado, Alicia Navarro-Sempere, Yolanda Segovia-Huertas, Sandra Pascual Garcia, Andrés Baeza-Morales, Carolina Pujalte-Satorre, Ana Belen Lopez-Jaen, María Magdalena García-Irles, Rosa María Martínez Espinosa, Jose Miguel Sempere-Ortells (Spain)

P1.11.10 Nanotechnology-enhanced photodynamic therapy for remodeling the tumor microenvironment in colorectal cancer
Austeja Butkute, Agata Mlynska, Evelina Kazlauske, Simona Steponkiene (Lithuania)

P1.11.11 Exploring the dynamics of the surface proteins of exosomes and the repertoire of peptides presented by their human leukocyte antigen class I molecules
Jaxaira Maggi, Montserrat Carrascal, Joaquin Abian, Daniel Closa (Spain)

P1.11.12 An end-to-end flow cytometry approach for the development of particle-based vaccines: implication for immunotherapy studies
Messaggio Fanuel1, Lui Jen Bon1, Castrosin Irene2, Alfonso Blanco3, Mcgee Margaret2, Anis Larbi1 (1USA, 2Ireland, 3France)

P1.11.13 A multiple myeloma plasma extracellular vesicle protein signature for monitoring patient response to daratumumab
Kieran Brennan1, Katrine Fladeland Iversen2, Alfonso Blanco1, Thomas Lund2, Torben Plesner2, McGee Margaret1 (1Ireland, 2Denmark)

P1.11.14 Degradable itaconate biopolymers delivery tools for regulation of pathological macrophage inflammation and fibrosis
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P1.12.02 Calcium macrophage differentiation and maintenance depends on oxidative phosphorylation and fatty acid consumption
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P1.12.03 The involvement of neutrophil extracellular traps in necrotizing enterocolitis: exploring the role of neutrophils and their interaction with other immune cells in different organoid models
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P1.12.04 The metabolic profile of plasmacytoid dendritic cells from patients with systemic sclerosis
Beatriz Ferreira¹, Carolina Mazeda¹, Eduardo Dourado¹, Ana Rita Prata¹, Rafael Argüello², Iola Duarte¹, Philippe Pierre¹,², Catarina Almeida¹ (Portugal, France)

P1.12.05 Monocytes drive myofibroblast contraction in a 3D skin model used to understand fibrosis in systemic sclerosis
Djúlio Zanin da Silva¹,², Nienke van Kooten¹, Theogiannis Papadimitriou¹, Daphne Dorst¹, Birgitt Walgreen¹, Elly Vitters¹, Peter van der Kraan¹, Martijn van den Bosch¹, Arjnt van Caam¹, Marije Koenders¹ (Netherlands, Brazil)

P1.12.06 Systemic immune response to cold exposure is linked to γδ T cells dynamics
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P1.12.07 BNT162b2 COVID-19 vaccination elicits the expansion of CD16+CD8+ T cells endowed with NK cell features
Claudia De Pasquale¹, Fabiana Drommi¹, Alessia Calabrò¹, Cirino Botta¹, Giacomo Sidoti Migliore¹, Paolo Carrega¹, Grazia Vento¹, Amirhossein Gaeini¹, Gaetana Pezzino¹, Jose Freni¹, Irene Bonaccorsi¹, Gregorio Cavaliere¹, Guido Ferlazzo¹, Stefania Campana¹ (Italy, USA)

P1.12.08 Development of the first primary mucosal mast cell model
Louise Battut (France)

P1.12.09 Ankylosing spondylitis-specific isotype immunoglobulin glycan profile reveal unique inflammatory responses of PMA-differentiated THP-1 macrophages
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P1.12.10 Dissecting monocyte metabolic reprogramming to SARS-CoV-2 vaccination in people living with diabetes
Emma Jones¹, Nicholas Oliver¹, Harald Sourij², Margarita Dominguez-Villar¹ (United Kingdom, Austria)

P1.12.11 Rheumatoid arthritis monocytes and monocyte-derived macrophages are more inflammatory, less endocytic but display distinct TET expression and differentiation potential compared to psoriatic arthritis
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P1.12.12 Polyherbal formulation NOQ19 modulates human macrophage polarization and function
Asli Korkmaz, Duygu Sag (Turkey)

P1.12.13 Impact of exogenous and endogenous CD40L on macrophage responses to IL-4
Ignacio González-Alayón¹, Mariana Suárez-Martins¹, Cecilia Casaravilla¹, Stephen J. Jenkins², Conor Finlay², Pedro Papotto², Judith E. Allen², Alvaro Diaz¹ (Uruguay, United Kingdom, Ireland)
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P1.14.86  KIR and PD-1 on CD8+ T cells in Behçet’s disease reveal changes with disease activity  
Seyda Bilgin, Rabia Deniz, Taylan Kaplan, Fatma Alibaz Oner, Ahmet Gül, Haner  
Direskeneli, Güher Saruhan Direskeneli  
(Turkey)

P1.14.87  Single cell RNA sequencing of lung cells from idiopathic pulmonary fibrosis patients  
identifies a disease-specific macrophage subset with a type I IFN signature  
Vishal Nathwani, Praveen Weeratunga, Tian Hu, Jeongmin Woo, Laura Denney, Agne  
Antanaviciute, Ling-Pei Ho  
(United Kingdom)

P1.14.88  Pathogenic variants in the NLRP3 LRR domain lead to a boost-dependant atypical caps  
phenotype  
Antoine Fayand1, Margaux Cescato1, Laurent Le Corre1, Alexandre Terré1, Margaux  
Wacheux1, Yves-Jean Zhu1, Armelle Melet1, Thomas Moreau1, Diego Bletry1, Bahram  
Bodaghi1, Gilles Grateau1, Laurence Cuisset1, Bénédicte F. Py1, Benedicte Neven1,  
Didier Bronnimann1, Léa Savey1, Raquel Faria2, Catharina M. Mulders-Manders2,  
Marie-Elise Truchetet1, Guilaine Boursier1, Olivier Richer1, Jean-Philippe Herbeuval1,  
Mélanie Poinrot1, Sophie Georgin-Lavialie1, Mathieu P. Rodero1  
(France, Portugal, Netherlands)
POSTER SESSION 1

P1.14.90 Identifying molecular subtypes of critical illness to enable precision medicine
Renske Hoekstra, Matthew Fish, Jennifer Rynne, Christopher J Weir, Iain McInnes, Manu Shankar-Hari (United Kingdom)

P1.14.91 Prevalence and epidemiological profile of patients using immunobiologics for the treatment of Ankylosing Spondylitis in the public health system in a municipality in southern Brazil
Ana Benthien, José Eduardo Neis (Brazil)

P1.14.92 Prevalence and epidemiological profile of patients using Anti-TNF immunobiologics for the treatment of autoimmune diseases in the municipality of Jaraguá do Sul, Brazil
Glayce Jane Vieira Assunção, Isadora Maria Gomes, Amanda Varela Da Silva, Ana Benthien (Brazil)

P1.14.93 A family of helminth-derived TGF-β mimics target tissue-resident macrophages and granulocytes in the peritoneal cavity
Kyle Cunningham¹, Natalia Wąsowska¹, Shashi Singh¹², Maarten van Dinther³, Tiffany Campion¹, Ananya Mukundan⁴, Andrew Hinck⁴, Peter ten Dijke³, Rick Maizels¹ (¹United Kingdom, ²India, ³Netherlands, ⁴USA)

P1.14.94 Glycolytic macrophages define pathological medical implant fibrosis
Christian Rempe, Neal Callaghan, Sarah Nersesian, Zachary Froom, Kyle Medd, Michael Bezuhly, Jeanette Boudreau, Locke Davenport Huyer (Canada)

P1.15 CYTOKINE AND T LYMPHOCYTE-BASED IMMUNOTHERAPY

P1.15.02 Interleukin-2 dynamically reduces interleukin-2 receptor β expression and function especially in T cells
Charline Sommer, Sophie Jacob, Tonia Bargmann, Susann Dehmel, Vanessa Neuhaus, Armin Braun, Katherina Sewald (Germany)

P1.15.03 Solving the mystery of immunomodulation in malignant ascites: an exploration of novel unknown immunosuppressive factors in ovarian cancer ascites, and their impact on modern immunotherapeutics.
Luke Furtado O’Mahony, Gulsah Albayrak, Mahnoor Nadeem, Hena Khalique, Len Seymour, Kerry Fisher (United Kingdom)

P1.15.04 A small bispecific antibody induces HIV-1 Env-specific T-cell activation
Eudald Vehí Piqué, María Lázaro-Diez, Rodrigo Lázaro Gorines, Ruth Peña, Carlo Carolis, Carmen Dominguez Alonso, Luis Álvarez-Vallina, Julia G. Prado (Spain)

P1.15.05 Development of an in vivo suppression assay to assess Treg function
Joanne Anstee, Julieta Karegli, Michael Worwood, Shanth, Herath, Madhav Kishore, Bahire Kalfaoglu, Sim Tung, Courtney Grant, Georgios Eleftheriadis, Jenny McGovern (United Kingdom)
POSTER SESSION 1

P1.15.06 Functional regulation of human lymphoid cells by IL-1R8 targeting in cancer
Robert Garuti, Domenico Supino, Elena Magrini, Giovanni Pezone, Irene Di Ceglie, Andrea Mariancini, Silvia Carnevale, Laura Falcone, Monica Casucci, Joanna Mikulak, Domenico Mavilio, Enrico Lugli, Sebastien Jaillon, Alberto Mantovani, Cecilia Garlanda (Italy, United Kingdom)

P1.15.07 IL-10 enhances the antitumor immunity in the orthotopic hepatocellular carcinoma mouse model by increasing CD8+ T cell cytotoxicity
Chia-I Lin, Yu-Wen Wang, Yi-Wei Chiu, Ying-Hsuan Wu, Ya-Hui Chuang (Taiwan)

P1.15.08 Induction of resident memory CD8+ T cell phenotypes to eliminate the HIV reservoir
Cristina Mancebo-Pérez, Aleix Benitez, Judith Grau-Expósito, Sebastián G. Kugel, Núria Massana, Jon Cantero-Pérez, Nerea Sánchez-Gaona, Josep Castellví, Laura Mañalich-Barrachina, Cristina Centeno-Medivilla, Jordi Navarro, Adrià Curran, Vicenç Falcó, Maria Jose Buzon, Meritxell Genescà (Spain)

P1.15.09 Apheresis characteristic impacting response to chimeric antigen receptor T-cell therapy
Ivan García De La Torre, Carlota García-Hoz Jiménez, Eulalia Rodríguez Martín, Rafael Rodríguez Ramos, Elena Mantero La Navarro, José Luis Veiga González, Vivian Lizeth Stewart DelCid, Celia Ferrez Hernández, Daniel Albert Mendoza Bravo, Paula Batres Faba, Kyra Velázquez Kennedy, Roberto Pariente Rodríguez (Spain)

P1.15.10 Monitoring of immune system in CAR-T infused patients diagnosed of hematological malignancies
Raquel Bernardo, Laura Carrero, Ana Navas, Estefania García Torres, Concepción Herrera, Aurora Jurado Roger (Spain)

P1.15.11 Changes in immunological and metabolic parameters in patients with spondyloarthopathies treated with biologics
Krzysztof Bonek, Antonina Markowicz, Maciej Oldak, Magdalena Plebanczyk, Anna Kornatka, Sylwia Szczygiełska, Katarzyna Helon, Marek Kajfasz, Paulina Wydrych, Brygida Kwiatkowska, Piotr Głuszko, Anna Felis-Giemza, Ewa Kuca-Warnawin (Poland)

P1.15.12 Exploring TCR and gene expression diversity: Single cell RNA and TCR sequencing on NY-ESO-1-specific HLA-DRB3*02:02-restricted CD4+ T cells from cancer-free individuals
Berta Casanovas Albertí, Andrea Aran, Ariadna Bartoló, Roberto Martínez, Iván García-Loza, Alejandro Ramírez-Chacón, Mariona Pascal, E. Azucena González Navarro, Manel Juan Otero (Spain)

P1.15.13 Unveiling therapeutic potential of adoptive T-cell products in cancer treatment by integrating full spectrum flow cytometry with image-based assays
Sarah Schulenberg, Michelle Loeser, Martí Farrera-Sal, Jacqueline Keye, Candise Tat, Désirée Kunkel, Bilal A. Omer, Michael Schmueck-Henneresse (Germany, USA)

P1.15.14 Isolation of a high avidity TCR targeting a newly identified epitope of a common cancer testis antigen expressed by solid tumors
Emina Sivro, Martin Klatt, Sefer Elezkurtaj, Caecilia Freund, Corinna Grunert, Ulrich Keller, Antonia Busse (Germany)

P1.15.15 A novel PEGylated IL-2 mutein, RS2102, selectively induced Regulatory T-lymphocytes (Treg) expansion. Results from a phase 1 single dose ascending study in healthy volunteers
Aik Goh, Jia Liu, Dan Pu, Isaac SY Goh, Bo Qu (United Kingdom)
POSTER SESSION 1

P1.15.16 Development of a T-cell activation panel using image cytometry in rheumatoid arthritis human samples
Bo Lin, Leo Chan (USA)

P1.15.17 Multiparametric study to optimize extracellular vesicles production for immunomodulatory potential
Christophe Wong, Isaure Rous, Thibaut Fourniols, Jean-Philippe Herbeuval (France)

P2.01 CHEMOKINES AND THEIR RECEPTORS

P2.01.01 Pro-inflammatory cytokine/chemokines pattern in obesity induced experimental psoriasis
Carolina Constantin, Mihaela Surcel, Adriana Narcisa Munteanu, Gheorghita Isvoranu, Neagu Teodora Monica (Romania)

P2.01.02 A sensitive functional cell-based bioassay for the screening of different recombinant variants of soluble mouse LIGHT to be used in in vivo anti-tumor studies
Jose-Ignacio Rodriguez-Barbosa¹, Pascal Schneider², Maria Luisa del Rio¹ (Spain, Switzerland)

P2.01.03 Transcriptional and epigenetic regulation of IL23R expression in human CD4+ T cells
Hanane Yahia, Ikram Mezghiche, Victoire Baillet, Daniel J. Cua, Raphaëlle Parker, Lars Rogge, Elisabetta Bianchi (France)

P2.01.04 GDF-15-driven macrophage reprogramming: impact on IL17RB expression and immune tolerance
Lina Susana Silva Bermudez, Jingxuan Xu, Harald Klüter, Julia Kzyshkowska (Germany)

P2.01.05 IFN-γ response by medullary thymic epithelial cell in the absence of Aire gene
Ana Carolina Monteleone Cassiano¹,², Rute Daniela Pinto², Pedro Ferreirinha², Geraldo Passos¹, Nuno Alves², Eduardo Donadi¹ (Brazil, Portugal)

P2.01.06 The gene expression of TGF-β receptor subunits in blood is altered in relapsing-remitting multiple sclerosis and under the influence of dimethyl fumarate
Ludmila Szewczak, Magdalena Kierasińska, Rafał Rola, Anna Karlińska, Katarzyna Donskow-Lysoniewska (Poland)

P2.01.08 Changes in levels of leptin, adiponectin, chemerin and resistin in response to progressive resistance training in highly trained athletes and non-trained individuals
Olga Sierawska, Marek Sawczuk (Poland)

P2.01.10 Evaluating the cytokine profile in steroid naive patients with polymyalgia rheumatica
Patricia Harkins, Sharon Cowley, Robert Harrington, Jean Dunne, David Kane, Niall Conlon, Richard Conway (Ireland)

P2.01.11 Adipokines dysregulation in the dysfunctional body adipose tissue is associated with immunometabolic biomarkers increase, highlighting dyslipidemias with a greater contribution from the TG-VLDLC-APO B metabolic pathway
Jacqueline Noboa-Velasquez, Ana-Lilia Fletes-Rayas, Perla-Monserrat Madrigal-Ruiz, Jorge Castro Albarran, Sandra Luz Ruiz Quezada, Martha Eloisa Ramos Marquez, Rosa Elena Navarro Hernandez (Mexico)
**POSTER SESSION 2**

**P2.01.12** Sources of variability in multiplex bead array assays: evidence from twelve years of multi-site proficiency testing  
*Wes Rountree, Heather Lynch, Thomas Denny, Gregory Sempowski, Andrew Macintyre (USA)*

**P2.01.13** Uncovering the role of CMTM4 in IL-17 receptor C trafficking  
*Tijana Trivic, Peter Draber (Switzerland)*

**P2.01.14** Regulation of MyD88 signaling in autoimmunity  
*Alzbeta Synackova, Peter Draber (Czech Republic)*

**P2.01.15** Unravelling the secretion of the two different subunits (p35/p40) of IL-12 at the immunological synapse between dendritic cells and T cells  
*Anthi Psoma, Geert van den Bogaart, Frans Bianchi (Netherlands)*

**P2.02 DIVERSITY OF ANTIGEN RECOGNITION**

**P2.02.01** Cross-regulation of antibody responses against viral and host proteins by commensal microbiota via molecular mimicry  
*Marina Bondareva, Pawel Durek, Adrian Schreiber, Philipp Enghard, Mir-Farzin Mashreghi, Andrey Kruglov (Germany)*

**P2.02.02** Deep sequencing of the TCR locus identifies immunodominant T cell responses to COVID-19 vaccination  
*Isabel Ferreirós Vidal, Julián Montoto Louzao, Jacobo Pardo Seco, Xabier Bello, Irene Rivero Calle, Fernando Caamaño, Carmen Durán Parrondo, Alberto Gómez Carballa, Jose Gómez Rial, Antonio Salas, Federico Martinón Torres (Spain)*

**P2.03 EPITHELIAL AND STROMAL CELLS**

**P2.03.01** Packaged food emulsifiers trigger pro-inflammatory activation and disruption of the gut epithelial barrier  
*Duygu Yazıcı, Yagiz Pat, Ismail Ogulur, Sena Ardicli, Sheri Simmons, Anthony Almada, Christine Avena, Tye Jensen, Manru Li, Yasutaka Mitamura, Huseyn Babayev, Anja Heider, Raja Dhir, Mubeccel Akdis, Kari Nadeau, Cezmi Akdis (Switzerland, USA)*

**P2.03.02** PPARβ/ inhibition enhances mesenchymal stromal cell-mediated immunomodulation in the context of acute respiratory distress syndrome  
*Courtney Tunstead, Evelina Volkova, Hazel Dunbar, Ian J. Hawthorne, Alison Bell, Rita Negi, Bairbre McNicholas, Claudia C. dos Santos, John G. Laffey, Karen English (Ireland, Canada)*

**P2.03.03** Differential FLS populations define Rheumatoid and Psoriatic Arthritis pathotypes via their functional response to distinct immune regulators  
*Orla Tynan, Conor Smith, Mary Canavan, Achilleas Floudas, Aoife O’Rourke, Dumitru Anton, Carl Orr, Douglas Veale, Ursula Fearon (Ireland)*
POSTER SESSION 2

P2.03.05 Investigating the impact of PPARβ/δ on mesenchymal stromal cell immunometabolism
Evelina Volkova, Courteney Tunstead, Hazel Dunbar, Ian Hawthorne, Claudia C. dos Santos, John G. Laffey, Karen English (Ireland)

P2.03.06 Characterization of PRIME cells identified in circulation of individuals-at-risk and patients with rheumatoid arthritis
Brianne Barker, Órla Tynan, Dumitru Anton, Aoife O’Rourke, Carl Orr, Douglas Veale, Mary Canavan, Ursula Fearon (Ireland)

P2.03.07 The inflamed joint microenvironment affects endothelial cell function through soluble mediators and cell-cell interactions
Aenea Brugman, Órla Tynan, Dumitru Anton, Carl Orr, Viviana Marzaioli, Douglas Veale, Ursula Fearon (Ireland)

P2.03.08 Defining the effects of trained innate immunity and metabolic reprogramming on the immune functions of airway epithelial and fibroblast cells
Sarah Connolly, Dearbhla Murphy, Grainne Jameson, Isabella Batten, Donal Cox, Joseph Keane, Jean Fletcher, Sharee Basdeo (Ireland)

P2.03.09 Human thymus epithelial stem cells - the pillars of T cell development
Ildikó Bódi1, Sabrina Adorisio2, Domenico Delfino2, Ivan Mamic3, Lucija Bozicevic3, Zsolt Prodan1, Delfa RadicKristo3, Ivana Vinkovic Vrcek3, Danka Grčević3, Mariastefania Antica3 (1Hungary, 2Italy, 3Croatia)

P2.03.10 A bacterial metabolite with gut and skin epithelial barrier enhancing and anti-inflammatory activities
Yagiz Pat1, Duygu Yazici1, Ismail Ogulur1, Sena Ardici1, Sheri Simmons2, Anthony Almada2, Christine Avena2, Tye Jensen2, Manru Li1, Xiangting Bu3, Yasutaka Mitamura1, Anja Heider1, Huseyn Babayev1, Raja Dhir1, Lou Zhang2, Mubeccel Akdis1, Kari Nadeau3, Cezmi Akdis1 (1Switzerland, 2USA, 3China)

P2.03.011 The fetal liver stromal compartments and hematopoiesis
Yanping Zhou, Francisca Soares-Da-Silva, Mesquita-Peixoto Marcia, Marie-Pierre Mailhe, Ana Cumano (France)

P2.03.012 Gene-based COVID-19 vaccines directly transfect lymphatic endothelial cells and alter sinusoidal functions of the draining lymph node
Pinja Thorén, Ruth Fair-Mäkelä, Joni Näsäaho, Pia Sundqvist, Laura Kähäri, Ilkka Julkunen, Johanna Ivaska, Bishwa Ghimire, Jonna Alanko, Marko Salmi (Finland)

P2.03.013 Investigation of anti-inflammatory products on adipose derived stem cells and adipogenesis
Cathy Brougham (Ireland)

P2.03.014 Curcumin regulation of mesenchymal stem cells
Cathy Brougham (Ireland)

P2.03.015 Temporo-spatial single cell atlas of the regenerating alveolar niche in idiopathic pulmonary fibrosis
Praveen Weeratunga, Bethany Hunter, Martin Sergeant, Joshua Bull, Colin Clelland, Laura Denney, Chaitanya Vuppussetty, Rachel Burgoyne, Jeongmin Woo, Tian Hu, Lee Borthwick, Jim Shaw, Agne Antanaviciute, Andrew Filby, Helen Byrne, Andrew Fisher, Ling-Pei Ho (United Kingdom)

P2.03.016 To investigate the underlying mechanism of cytokine regulation in diabetic patients
Cathy Brougham (Ireland)
POSTER SESSION 2

P2.03.017 Evaluation of the effect of a dressing functionalized with an antimicrobial extract in vivo model
Leslie Becerril Serna, Josué Raymundo Solis Pacheco, Blanca-Rosa Aguilar-Uscanga, Mario Soto Flores, Erick Omar Cisneros López (Guadalajara)

P2.04 GENETIC AND ENVIRONMENTAL TRIGGERS OF AUTOIMMUNITY

P2.04.01 Clinical features and outcome in two paediatric patients with anti-MDA5 and anti-Ro52 antibodies after viral infection
Laura Miguel Berenguel, Daniela Aguilar, Ricardo Cuesta Martín de la Camara, Carmen Cámara Hijón, Ana Martínez Feito, Pilar Nozal Aranda (Spain)

P2.04.02 Increased phosphorylation indicates continuous antigen-mediated autoreactive B-cell activation in rheumatoid arthritis
Sanne Kroos, Nienke J. Blomberg, Joanneke C. Kwekkeboom, Rudi Hendriks2, Odilia Corneth, René E.M. Toes, Hans U. Scherer (Netherlands)

P2.04.03 Complete description of the three pathways of the complement system in patients with rheumatoid arthritis
Elena González López, Mónica Renuncio García, J. Gonzalo Ocejo Vinyals, Dara Rodríguez González, María García González, Fuensanta Gómez Bernal, Juan Carlos Quevedo Abeledo, Yolanda Fernández Cladera, Agustín F. González Rivero, Alejandro Jiménez Sosa, Candelaria Martín González, Miguel A. González Gay, Iván Ferraz Amaro (Spain)

P2.04.04 Loss of thymic interferon signature in autoimmune regulator-deficient mice

P2.04.05 The role of bacterial lipopolysaccharides and gut microbiota dysbiosis in type 1 diabetes
Satu Silojärvi, Linda Leino, Sakari Pöysti, Arno Hänninen (Finland)

P2.04.06 The propensity of B cells to infiltrate the multiple sclerosis brain: impact of genetic variation and environment
Laurens Bogers1, Jasper Rip2, Kirsten Kuiper1, Florian Ingelfinger2, Jamie van Langelaar1, Liza Rijvers1, Steven Koetzier1, Marie-Jose Melief1, Annet Wierenga-Wolf1, Cato Corsten1, Ursula Boschert2, Lisa Gerdes3, Burkhard Becher2, Joost Smolders1, Marvin van Luijn1 (1Netherlands, 2Switzerland, 3Germany)

P2.04.07 Methyl-rich diet suppresses the development of lupus-like symptoms in humanized mouse model of the disease
Lidiya Kechidzhiieva, Nikola Ralchev, Blagovesta Todorova, Kalina Kalina Tumangelova-Yuzeir, Dobroslav Kyruchiev, Desislava Kalinova, Simeon Monov, Andrey Tchorbanov, Kalina Nikolova-Ganeva (Bulgaria)

P2.04.08 Exploring the reduced cytokine production capacity of lymph node T cells observed during the earliest phases of rheumatoid arthritis
Aoife O’Byrne, Johanna F. Semmelink, Janne W. Bolt, Mario Maas, Marleen G.H. van de Sande, Lisa G.M. van Baarsen (Netherlands)
POSTER SESSION 2

P2.04.09 Evaluation of soluble immune checkpoint proteins in systemic lupus erythematosus and Sjögren’s syndrome patients
Ege Gürülü, Basak Aru, Müge Bıçakçığil Kalaycı, Gülderen Yahiykaya Demirel (Turkey)

P2.04.10 How does SARS-CoV-2 affect the immune system of lupus nephritis patients? A two-year perspective
Anna Wardowska, Michal Komorniczak, Barbara Bullo-Piontecka, Katarzyna A. Lisowska (Poland)

P2.04.11 Transfer of IgG of Long-COVID patients induces subgroup-specific symptoms in mice

P2.04.12 Immune parameters of patients with systemic lupus erythematosus after COVID-19 infection
Katarzyna A. Lisowska, Michal Komorniczak, Barbara Bullo-Piontecka, Anna Wardowska (Poland)

P2.04.13 Childhood systemic lupus erythematosus
Farva Jalil, Tahir Aziz Ahmed (Pakistan)

P2.04.14 Detection of autoantibodies anti-RNP70 in the differential diagnosis and classification of connective tissue diseases
Azahara Díaz-Lozano, Angela Lucas Blanco, Luz Cheilly Mosquera Jiménez, María Inmaculada Acalá Peña, María Luisa Vargas Pérez (Spain)

P2.04.15 Clinical relevance of duodenal lymphogram as a diagnostic tool for celiac disease in adults
Angela Villegas Mendiola, Laura García Bravo, Kauzar Mohamed Mohamed, María Palacios Ortega, Alejandro Pereiro Rodríguez, Teresa Guerra Galan, María Dolores Mansilla Ruiz, Marc Perez-Guzman, Juliana Ochoa Grullon, Miguel Fernandez Arquero, Maria Guzmán Fulgencio, Silvia Sanchez-Ramon (Spain)

P2.04.16 Exploring the Impact of EBV Infection on T-bet Expression in B Cells and Its Influence on T Cell Activation and Migration
Ioannis Piteros, Fabienne Läderach, Sandra Schmid, Christian Münz (Switzerland)

P2.04.17 Zbtb20 as a regulator in the development and activation of the immune system in wild type and heterozygous animals.
Iliyan Manoylov, Lidiya Kechidzhieva, Katerina Ilieva, Nikolina Mihaylova, Andrey Tchorbanov (Bulgaria)

P2.04.18 Real-life implementation of multiple autoantibody detection for Connective Tissue Disease in a single referral center in Northern Spain
Mónica Renuncio García1, Paolo Miraglia2, Juan José Fernández Cabero1, Juan Irure Ventura1, Marcos Lopez Hoyos1 (Spain, 2Italy)

P2.04.19 The role of sclerodermatosis/myositis-related autoantibodies detected by immunoblot in the diagnosis of systemic autoimmune rheumatoid arthritis diseases in 410 patients from a single referral center
Mónica Renuncio García, Carmen Secada Gómez, Diana Prieto Peña, Ricardo Blanco, Juan Irure Ventura, Marcos Lopez Hoyos (Spain)
POSTER SESSION 2

P2.04.20 The peripheral MAIT cell TCRα/β repertoires alter with age of psoriasis vulgaris patients
Stana Tokić, Maja Jirouš Drulak, Vera Pluzaric, Marija Sola, Martina Mihalj, Mario Stefanic (Croatia)

P2.04.21 Diagnostic efficacy of anti-SSB versus anti-SSA antibodies in Sjögren’s Syndrome and
other connective tissue diseases
Azahara Díaz-Lozano, Angela Lucas Blanco, Ramon García Alaejos, Marta Aguilar Criado, María Luisa Vargas Pérez (Spain)

P2.04.22 The TCR repertoire of circulating γδ T lymphocytes in psoriasis vulgaris varies with age
and disease severity
Maja Jirouš Drulak, Mario Stefanic, Vera Pluzaric, Marija Sola, Martina Mihalj, Stana Tokić (Croatia)

P2.04.23 Clinical correlation between anti-centromere antibodies (CENP-B) and autoimmune
diseases
Angela Lucas Blanco, Azahara Díaz Lozano, luz cheilly Mosuea Jiménez, Marta Aguilar Criado, María Inmaculada Alcalá Peña, María Luisa Vargas Pérez (Spain)

P2.04.24 Impact of COVID-19 on the prevalence of ANA positivity within the Indian population
Vikas Saini, Sangita Gupta, Anamika Keshri, Sonia Malik (India)

P2.04.25 Diagnosis of antiphospholipid syndrome based on 2023 ACR/EULAR versus 2006
Sydney criteria, in a population of patients from Cádiz, Spain
Javier Galán Picón, Joel Gutiérrez Serrudo, Lucía Pedrosa García, Isabel Serrano García, Carmen Rodríguez (Spain)

P2.04.26 Establishing the optimal cut-off value to detect clinically relevant figures of anti-
citrullinated protein antibodies for the diagnosis of rheumatoid arthritis
Alberto Gallardo García, Jorge Mannelli, Jesús Gálvez Remón, Carmen Rodríguez (Spain)

P2.04.27 A rare case of rheumatoid arthritis and sarcoidosis co-occurrence
Nurgul Naurzvai (Turkey)

P2.04.28 Characterization of a model of vitiligo skin depigmentation in C57BL6/J mouse tail via
immunisation with tyrosinase-related protein 2 (TRP2)
Laura Casals, Lluís Boix, Charlie Bridgewood, Joan Mañé, José Luis Montero, Özge Ülçukan, Amadeu Gavalda (Spain)

P2.04.29 The impact of peripheral T follicular cells in the diagnosis of ANCA associated
glomerulonephritis
Michalis Christodoulou, Eleni Moysidou, Stamatia Stai, Vasiliki Nikolaidou, Konstantinos Badis, Pantelis Sarafidis, Asimina Fylaktou, Maria Stangou (Greece)

P2.04.30 Genetic landscape of ulcerative colitis: possible novel genetic variants in MST1 in two
familial clinical cases
Maria del Carmen Barrera Aguilera, Mónica Bernal, Ana Marin, Miguel Ángel López-Nevot (Spain)

P2.04.31 Increase in the concentration of granzymes, perforin and granulysin in patients with
systemic lupus erythematosus
Paola Santana Sánchez, Astrid Asminda Ramírez Pérez, Julian Argenis Gajón Martínez, Paolo Alberto Minutti, Laura Cecilia Bonifaz Alfonzo, Adriana Karina Chávez Rueda (Mexico)
POSTER SESSION 2

P2.04.32 Stratification of inflammatory arthritis using immunophenotyping
Abel Mekonnen Tesfaye, Erlend Holm-Nordli, Guro Levik Goll, Hilde Berner Hammer, Andreas Lossius, Silje Watterdal Syversen, Asbjørn Christophersen (Norway)

P2.04.33 Explorative study on the role of EBV-mimicry autoantibodies in Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) and post-COVID syndrome
Friederike Hoheisel, Franziska Sotzny, Kerstin Rubarth, Sandra Bauer, Frank Konietzchke, Claudia Kedor, Annla Elisa Stein, Kirsten Wittke, Martina Seifert, Carmen Scheibenbogen (Germany)

P2.04.34 Using genetic risk and EBV infection status to decipher the disease-inducing B cell in multiple sclerosis
Ana Marques, Sanne Reijm, Laurens Bogers, Jamie van Langelaar, Cato Corsten, Marie-Jose Melief, Annet Wierenga-Wolf, André Uitterlinden, Jeroen van Rooij, Beatrijs Wokke, Joost Smolders, Marvin van Luijn (Netherlands)

P2.04.35 Identification of Epstein-Barr Virus microRNAs in blood in multiple sclerosis
Victoria Hyslop Hvalkof, Malene Bredahl Hansen, Anna Olsson, Stefan Gustavsen, Annette Bang Oturai, Finn Sellebjerg, Helle Bach Søndergaard (Denmark)

P2.04.36 Anti-Ro52 positivity is associated with poorer lung function at diagnosis in connective tissue disease and idiopathic inflammatory myopathy associated interstitial lung disease
Robert Harrington, Patricia Harkins, Richard Conway, Ruairi Fahy (Ireland)

P2.04.37 Investigating biological age and ELOVL2 expression in ANCA-associated vasculitis
Jordy Smith, Isabella Batten, Matt McElheron, Mark Little, Nollaig Bourke (Ireland)

P2.04.38 The presence of myositis specific and myositis associated antibodies does not alter prognosis in idiopathic pulmonary fibrosis
Robert Harrington, Patricia Harkins, Richard Conway, Ruairi Fahy (Ireland)

P2.04.39 Assessment of myositis specific/associated autoantibodies during the COVID-19 pandemic and post pandemic period. The experience of a tertiary care hospital
Anastasia Bletsa, Stella Pomoni, Kleio Ampelakiotou, Elisavet Kontou, Nikolaos Athanasiou, Antonios Georgountzos, Konstantinos Soufleros, Konstantinos Kotsifas, Georgios Katsikas, Alexandra Tsigianni (Greece)

P2.04.41 Peptidylglycine alpha-amidating monoxygenase (PAM) is a mediator of tissue damage by rheumatoid arthritis synovial fibroblasts
Kevin Sheridan1, Emma Dorris1, Matthew Fisher2, Munitta Muthana2, Denis Shields1, Richard Mains3, Betty Eipper3, Christopher Buckley2, Anthony G. Wilson1 (Ireland, United Kingdom, USA)

P2.04.42 Anti-synthetase antibodies. How to assess results in a clinical laboratory practice
Andres Baucells, Mireia Fonolleda, Maria Rosa Julià, Juliana Ochoa Grullon, Yolanda Álvaro, Elisabet Moltó, Eduard Gallardo, Laura Martínez Martínez, Anais Mariscal (Spain)

P2.04.43 Age-related evolution of autoantibody specificities in the MLR lpr/lpr mouse strain
Wahib Mahana (France)
POSTER SESSION 2

P2.04.44 Silent autoimmunity in rare genetic disease Incontinentia pigmenti
Stefania Piscasia1, Ezia Spinosa1, Jeremie Rosain2, Alessandra Pescatore1, Carmela Casale1, Mattia Ritorti1, Alete Colella1, Serena Cabaro1, Pietro Formisano1, Maria Brigida Lio1, Matilde Valeria Ursini1, Paul Bastard2, Jean-Laurent Casanova2,3, Francesca Fusco1 (1Italy, 2France, 3USA)

P2.04.45 Metabolic rewiring shapes dendritic cell disease promoting function in autoimmunity
Nikos Papaioannou1, Georgia Kontogianni1, Eliana Mavraki1, Dimitra Keridani1, Rafael Argüello2, Themis Alissafi1 (1Greece, 2France)

P2.05 IMMUNE DEFICIENCIES

P2.05.01 STAT3 haploinsufficiency induces an increase in IgE+ B cell development
Virginia Andreani, Nils Ott, Bodo Grimbacher (Germany)

P2.05.02 Sex differences influence circadian and circannual variation in circulating alpha-1 antitrypsin
Emma Leacy, Daniel Fraughen, Mark Murphy, Michelle Casey, Ronan C. Heeney, Tomás Carroll, Annie M. Curtis, Noel G. McElvaney (Ireland)

P2.05.03 Mild phenotype of PSTPIP1-associated myeloid-related proteinaemia inflammatory (PAMI) syndrome: case report. A challenging diagnosis
Marina Fernandez-Gonzalez, Carlos Sánchez Rodriguez, Rosana Gonzalez-Lopez, Maria Jose Alegria-Marcos, Ana Menasalvas, Gema Salgado Cecilia, Manuel Muro Amador, Ana Galera, Olga Montes-Ares (Spain)

P2.05.04 Clues for diagnosis of hidden primary immunodeficiencies in B-cell lymphoproliferative diseases: a logistic regression approach
Maria Palacios Ortega, Adolfo Jimenez Huete, Teresa Guerra Galan, Alejandro Peixoto-Rodriguez, Alejandro Pereiro-Rodriguez, Maria Dolores Mansilla Ruiz, Angela Villegas Mendiola, Kauzar Mohamed Mohamed, Marc Perez-Guzman, Victor Sánchez Ciprián, Alejandra Carrero Garcia, María Guzmán Fulgencio, Juliana Ochoa Grullon, Miguel Fernandez Arquero, Silvia Sanchez Ramon (Spain)

P2.05.05 Inhibiting autoreactive CD8+ T-cells in Type 1 diabetes using blocking anti-CD8β antibody to inhibit pancreatic β-cell islet destruction
Hamzah Aldali, Amy Ward, David J. Morgan, Ian Cadby, Lindsay Nicholson, James Pearson, Linda Wooldridge (United Kingdom)

P2.05.06 Defects in T cell distribution and function in WHIM syndrome patients
Clémentine Moulin, Pierre-Edouard Debureaux, Jean Donadieu, Marion Espéli, Karl Balabanian (France)

P2.05.07 The different faces of inborn errors of immunity with case examples
Nesrin Gulez, Ferah Genel, Figen Celebi Celik, Ozgen Soyz, Berna Uzunoglu, Necmi Can Yuksel, Emre Firat (Turkey)

P2.05.08 Logistic regression for the study of common variable immunodeficiency biomarkers
Teresa Guerra Galan, Maria Palacios Ortega, Adolfo Jimenez Huete, Kissy Guevara-Hoyer, Angela Villegas Mendiola, Maria Dolores Mansilla Ruiz, Nabil Subhi-Issa, Antonia Rodriguez de la Peña, María Guzmán-Fulgencio, Miguel Fernandez Arquero, Rebeca Perez de Diego, Silvia Sanchez Ramon (Spain)
POSTER SESSION 2

P2.05.09 Biomarkers in patients with haematological malignancy in response to polyclonal gammaglobulin replacement therapy
Alejandro Peixoto Rodriguez, Elsa Mayol Hornero, Juliana Ochoa Grullon, Angela Villegas Mendiola, Maria Palacios Ortega, Maria Dolores Mansilla Ruiz, Carlos Jiménez Garcia, Miguel Fernandez Arquero, Silvia Sanchez Ramon (Spain)

P2.05.10 Flow cytometry-based protocols for the assessment of B lymphocyte activation after CpG stimulation: a diagnostic approach for primary immunodeficiencies
Andreja Natasa Kopitar, Larisa Janzic, Lucija Levstek, Ana Kern, Alojz Ihan (Slovenia)

P2.05.11 Chediak-Higashi syndrome with associated hemophagocytic lymphohistiocytosis in 3-month-old male patient
Raquel Montaña, Iván Menéndez, Carmen Luz Avendaño, Gema Ramírez, Primitivo Buendía, Macarena Castillo, Tamara Arias, Ariana Fonseca, Soledad González, Rebeca Alonso (Spain)

P2.05.12 Synovial histopathological stratification reveals a relationship between pathotypes and clinical presentation in osteoarthritis
Nicolas Gaigeard¹, Anais Cardon¹, Claire Vinatier¹, Frédéric Blanchard¹, Denis Waast¹, Benoît Le Goff¹, Jerome Guicheux¹, Marie-Astrid Boutet¹,² (France, ²United Kingdom)

P2.05.13 Discovering the T-cell receptor repertoire in apeced patients
Alexandra Elsakova, Jaanika Kärner, Kai Kisand (Estonia)

P2.05.14 Immune dysregulation, hypopigmentation and silvery hair syndromes, single centre experience
Neslihan Karaca, Ilke Bas, Guzide Aksu, Necil Kutukculer (Turkey)

P2.05.15 Will sarcoidosis help us understand granulomatous disease in common variable immunodeficiency (CVID) patients?
Jessica Ceccato, Giulia Gualtiero, Maria Piazza, Samuela Carraro, Helena Buso, Sabrina Manni, Francesco Piazza, Gianpietro Carlo Semenzato, Livio Trentin, Marcello Rattazzi, Carlo Agostini, Riccardo Scarpa, Fabrizio Vianello, Francesco Cinetto (Italy)

P2.05.16 Human IL12RB1 deficiency reveals essential roles of IL-12 and IL-23 in innate and adaptive immune responses
Alessio Mazzoni, Roberto Semeraro, Anna Vanni, Marta Baragli, Lorenzo Salvati, Boaz Palterer, Manuela Capone, Giulia Lamacchia, Benedetta Peruzzi, Sara Bencini, Roberto Caporale, Lucia Bartoli, Francesca Matani, Stefania Francialci, Francesco Liotta, Lorenzo Cosmi, Paola Parronchi, Laura Maggi, Alberto Magi, Francesco Annunziato (Italy)

P2.05.17 Obesity leads to reduced vaccine responses to SARS-CoV-2 in male C57BL/6 mice
Nora Geissler, Anna Schmid, Maria Orola-Taus, Erika Garner-Spitzer, Pia Gattinger, Rudolf Valenta, Irma Schabussova, Aleksandra Inic-Kanada, Ursula Wiedermann (Austria)

P2.05.18 Clinical impact of a non-canonical splicing variant in NFKB1 gene
Alicia Jurado Orozco, Carmen Morales García, Alba Exposito Bey, Jose Manuel Lucena Soto (Spain)
P2.05.19 Common variable immunodeficiency not associating recurrent infections
Vivian Lizeth Stewart DelCid, Ernesto Roldan Santiago, Eulalia Rodriguez Martin, Rafael Rodriguez Ramos, Jose Luis Veiga Gonzalez, Ivan Garcia De La Torre, Daniel Albert Mendoza Bravo, Paula Batres Faba, Celia Ferrer Hernandez, Elena Manterola Navarro, Rebeca Perez de Diego, Ana De Andres Martin (Spain)

P2.05.20 Activated phosphoinositide 3-kinase delta syndrome type I in a patient with significant neurodevelopmental delay
Jorge Mannelli, Daniel Garcia-Cuesta, Maria Sanchez-Codez, Estrella Peromingo-Matute, Francisco Mora-Lopez, Raquel De la Varga-Martinez (Spain)

P2.05.21 Patients with common variable immunodeficiency should be vaccinated against viral infections - insight into cellular and antibody responses
Jitka Smetanova, Michal Rataj, Tomas Milota (Czech Republic)

P2.05.22 Clinical, immunological, and genetic features in patients with NF-κB1 and NF-κB2 defects
Nazanin Fathi1, Matineh Nirouei1, Zahra Salimian Rizi1, Saba Fekrvandi, Hassan Abolhassani2, Fereshte Salami1, Arsh Haj Mohammad Ebrahim Ketabforoush1, Gholamreza Azizi1, Amene Saghaizadeh1, Marzie Esmaeili1, Amir Almasi-Hashiani1, Nima Rezaei1 (Iran, 2USA)

P2.05.23 NAD+ as a potential biomarker for chronic lymphocytic leukemia and monoclonal gammopathy of undetermined significance patients with secondary immunodeficiency
Elsa Mayol Hornero1, Kauzar Mohamed Mohamed1, Maria Palacios Ortega1, Angela Villegas Mendioloa1, Maria Dolores Mansilla Ruiz1, Won Cheol Choi2, Silvia Sanchez Ramon1, Jaekyung Cecilia Song2 (Spain, 2South Korea)

P2.05.24 Exploring SEC61A1 deficiency: a rare genetic cause of common variable immunodeficiency
Carmen Morales Garcia, Alba Exposito Bey, Alicia Jurado Orozco, Jose Manuel Lucena Soto (Spain)

P2.05.25 Neutrophil functions in patients with a rare disease: pulmonary alveolar proteinosis
Nurgul Naurzvai, Aysenur Kokoglu, Ferhad Kohansal Koshksaray, Ayshan Mammadova, Cagri Ulukan, Nurdan Kokturk, Nilgun Yilmaz Demirci, Caglar Cuhadaroglu, Haluk Turktas, Gunnur Deniz, Esin Cetin Aktas (Turkey)

P2.05.26 The in vitro functional memory B cell response is intact in most patients with common variable immunodeficiency disorder
Sophie Steiner, Kirsten Wittke, Carmen Scheibenbogen, Leif Hanitsch (Germany)

P2.05.27 The role of LFA-1 and regulatory T cells in skin inflammation
Maike Hartmann, Tanja Klaus, Alicia Wilson, Matthias Bros, Tobias Bopp, Stephan Grabbe (Germany)

P2.05.28 Expanding the clinical phenotype of TRAF3 haploinsufficiency syndrome
Blanca Angelica Urban Vargas, Laura Battle Maso, Marina Garcia Prat, Alba Parra Martinez, Ain Aruloi Cucurull, Janire Perurena Prieto, Monica Martinez Gallo, Laith Moushib, Maria Antolin Mate, Jacques G. Riviere, Pere Soler Palacin, Romina Dieli Crimi, Clara Franco Jarava, Roger Colobran (Spain)

P2.05.29 AD-HIES patients with impaired STAT3 signalling contain pre-Th17-cells that are activated by opportunistic pathogens to produce IL-10
Giorgia Moschetti, Chiara Vasco, Francesca Clemente, Sara Maioli, Elena Carelli, Lucia Baselli, Rosy Dellepiane, Maria Carrabba, Giovanna Fabio, Jens Geginat (Italy)
POSTER SESSION 2

P2.05.30 Heterozygous SERPINA1 defects and their impact on clinical manifestations of patients with predominantly antibody deficiencies
Styliani Sarrou, Ioanna Voulgaridi, Athanasia Fousika, Katerina Dadouli, Olympia Margaritopoulou, Ioannis Kakkas, Christos Hadjijchristodoulou, Fani Kalala, Mathaios Speletas (Greece)

P2.05.31 Lymphocyte subsets analysis in adult patients affected by common variable immunodeficiency
Marco Pio La Manna, Pietro Andrea Accardo, Roberta Migliore, Francesco Arcoleo, Serena Meraviglia, Giulia Bivona, Concetta Scazzone, Valentina Calò, Giulia Ficicchia, Francesco Dieli, Nadia Caccamo (Italy)

P2.05.32 Immunological and genetical characterization of novel homozygous DIAPH1 variants
Ebtehal Al Sheikh, Tracy Briggs, Glenda Beaman, Tracy Hussell, Peter Arkwright (United Kingdom)

P2.05.33 Associations between prenatal per- and polyfluoroalkyl substances (PFAS) exposure and antibody response to childhood vaccines in Norwegian children
Berit Brunstad Granum, Gro Tunheim, Johanna Bodin, Cathrine Thomsen, Marta Baranowska-Hustad, Azemira Sabaredzovic, Thea Kristine Rogne Moller, Line Småstuen Haug, Merete Åse Eggesbo, Nina Iszatt (Norway)

P2.05.34 Heterozygous LIG4 gene variant in a patient diagnosed with common variable immunodeficiency: a case study
Joel Gutierrez-Serrudo, Daniel García-Cuesta, Jorge Mannelli, Javier Galán Picón, Raquel De la Varga-Martínez, José Miguel Aparicio, Antonio Nieto (Spain)

P2.05.35 Distinct inflammation profiles in pregnant women living with and without human immunodeficiency virus in Cameroon an their children associate with lower anti-respiratory syncytial virus seroconversion
Moritz Schmiedeberg¹, Honore Awanakam², Romeo Djounda², MODESTE NGAMALEU², KEVINE TCHAMDA², Michel Besong², Livo Esemu², Christiane-Krystelle Nganou-Makamdop¹ (¹Germany, ²Cameroon)

P2.05.36 NBEAL2 is involved in CTLA-4 expression regulation in conventional T cells, but not in Tregs
Laure Delage, Carbone Francesco, Riller Quentin, Zachayus Jean-Luc, Kerbellec Erwan, Stolzenberg Marie-Claude, Pasquier Benoit, Rieux-Laucat Frédéric (France)

P2.05.37 Enhanced cross-protection to variants of concerns in SARS-CoV-2 vaccinated multiple myeloma patients with mild breakthrough infections
Angelika Wagner, Erika Garner-Spitzer, Claudia Auer, Pia Gattinger, Ines Zwazl, Rene Platzer, Maria Orola-Taus, Peter Pichler, Fabian Amman, Andreas Bergthaler, Johannes Huppa, Hannes Stockinger, Christoph Zielinski, Rudolf Valenta, Michael Kundi, Ursula Wiedermann Schmidt (Austria)

P2.05.38 A conservative approach: managing ARPC1B deficiency without hematopoietic progenitor cell transplantation
Andrea Ferranti, Paulina Vásquez Reyes, Daniel Igusnia Portilla, Helena Fernández Cabrera, Silvia Romero Chala, Luis Miguel Fernández Pereira (Uruguay)

P2.05.39 Omenn syndrome first diagnosis by flow cytometry method
Ihsan Deveci, Çağan Tan, Uğur Arslanyürekli, Ercan Küçükosmanoğlu, Özlem Keskin, Elif Arık, Mahmut Cesu (Turkey)
P2.05.40 Immune response to SARS-CoV-2 vaccination and/or infection in immunocompromised children and adolescents
Birivan Nabova, Peter Ciznar, Eva Kontseкова (Slovakia)

P2.06 IMMUNE EXHAUSTION

P2.06.01 Evidence of exhausted lymphocytes after the third anti-SARS-CoV-2 vaccine dose in cancer patients
Kauzar Mohamed Mohamed, Javier David Benitez Fuentes, Carlos Jimenez Garcia, Kissy Guevara Hoyer, Miguel Fernandez Arquero, Silvia Sanchez Ramon, Pedro Perez Segura (Spain)

P2.06.02 Effect of Pfizer-BioNTech COVID-19 vaccine booster doses: implications for vaccination strategies in healthcare workers
Ester Irene Reina Alfonso, Pablo Álvarez Heredia, Mónica Espinar García, Isabel María Vallejo Bermúdez, Carmen María Gutiérrez González, Alexander Batista Duharte, Fakhri Hassouneh, Juan Eduardo Molina Alcaide, Rafael Solana Lara, Alejandra Pera Rojas (Spain)

P2.06.03 Characterizing tumor microenvironment-mediated exhaustion in CD8 T Cells: Insights from a hepatocarcinoma model
Hacene Dreidi, Marie Le Moine, Sébastien Denanglaire, Solange Dejolier, Abdulkader Azouz, Stanislas Goriely, Fabienne Andris (Belgium)

P2.06.04 Exclusive expression of PD-1/TIGIT versus TIM3 differentially associates with metabolic plasticity and polarization of HIV-specific CD8+ T cells
Ilya Tsukalov, Marta Calvet-Mirabent, Ildefonso Sánchez-Cerrillo, Alba Roca, Aránzazu Rosado-Diez, Olga Popova, Lucio García-Fraile, Ana Quintas, Arantza Alfranca, Ana Dopazo, María José Calzada, Eduardo Balsa, Ignacio de Los Santos, Francisco Sánchez-Madrid, Enrique Martín-Gayo (Spain)

P2.06.05 Atf7ip-deletion results in attenuated T cell exhaustion and reduced tumor growth
Sujit Kashyap, Jun Sin, Michael Waterfield (USA)

P2.06.06 NLRP3 activation of macrophages regulates intratumoral T cell dysfunction in a pancreatic cancer model - dual mechanism of NLRP3-mediated cytokine secretion and PD-L1 expression
Vanessa Zimmer, Benedikt Slusny, Bettina Geisel, Katrin Roth, Malte Buchholz, Thomas M. Gress, Christian Bauer (Germany)

P2.06.07 Dysregulated inflammatory response and poor fracture healing in polytrauma
Augustine Saiz, Maryam Rahmati, Robert Gresham, Tony Baldini, Jane Burgan, Mark Lee, Benjamin Osipov, Blaine Christiansen, Thaqif El Khassawna, Florian Wieland, Andre Lopes, Clement Blanchet, Kent Leach (Germany)

P2.06.08 A pseudo-temporal framework analysis of exhausted CD8 T cells (Tex) across PD-1 therapy revealed limited “reinvigorability” of exhausted progenitor cells and underlying regulatory pathways
Jean-Christophe Beltra1,2, Sasikanth Manne2, Morgan Le Gall1, Hélène Mereau1, John Wherry2 (Switzerland, USA)

P2.06.09 Type 1 interferons and Foxo1 down-regulation play a key role in age-related T-cell exhaustion in mice
Aurélie Durand, Nelly Bonilla, Level Théo, Zoé Ginestet, Amélie Lombès, Morgane Le Gall, Bruno Martin, Cédric Auffray, Bruno Lucas (France)
POSTER SESSION 2

P2.06.11 The functional effects of PMN-MDSC on PD-1+ and PD-1- effector memory CD4+ T cells under PD-1 immune checkpoint blockade
Ece Tavukcuoglu Demir1,2, Feyza Gul Ozbay Kurt3, Ihor Arkhypov2, Samantha Lasser2, Kerim Bora Yılmaz1, Jochen Utikal2, Viktor Umansky2, Güneş Esendağlı1 (1Turkey, 2Germany)

P2.06.13 The impact of metformin on circulating natural killer and natural killer T cell activation in prediabetes
Adelle Ankadu (South Africa)

P2.06.14 Distinct phenotype and function of TIGIT expressing circulating versus intratumoral NK and CD8 T cells in mouse and human sarcoma models
Marshall Lammers, Cyrus Sholevar, Sean Judge, Khurshid Iranpur, Lauren Farley, Ryan Nielsen, Arta Monjazeb, William Murphy, Robert Canter (USA)

P2.06.15 HDAC1 controls the generation and maintenance of effector-like CD8+ T cells during chronic viral infection
Ramona Rica, Monika Waldherr, Marlene Schülein, Emi Miyakoda, Lisa Sandner, Valentina Stolz, Darina Waltenberger, Thomas Krausgruber, Christoph Bock, Nicole Boucheron, Wilfried Ellmeier, Shinya Sakaguchi (Austria)

P2.07 IMMUNE MEMORY DEVELOPMENT

P2.07.01 Tbet+CD11c+ B cells: professional antigen-presenting cells in untreated rheumatoid arthritis
Sarah McGrath, Kristoffer Nilsson Grimstad, Katrin Thorarinsdottir, Kristina Forslind, Daniel Glinatsi, Monica Leu Agelii, Alaitz Aranburu, Timothy Sundell, Charlotte Jonsson, Alessandro Camoneschi, Anna-Karin Hultgård Ekwall, Andreas Tilevik, Inger Gjerstorff, Lill Mårtensson (Sweden)

P2.07.03 Diversity and survival of circulating and bone marrow-resident memory T cells
Emilia Schneider Revuelta1, Lukas Heiberger1, Marta Ferreira-Gomes1, Pawel Durek1, Gabriela M. Guerra1, Jun Dong1, Koji Tokoyoda1,2, Frederik Heinrich1, Mir-Farzin Mashreghi1, Hyun-Dong Chang1, Andreas Radbruch1 (1Germany, 2Japan)

P2.07.04 Specificity in encoding and phenotype of innate immune memory
Aoife O’Farrell, Zijian Niu, Jingxin Li, Laura Van Eyndhoven, Arjun Raj (USA)

P2.07.05 Investigating the impact of Staphylococcus aureus exposure on innate immune memory
Seán Cahill, Cliodhna Daly, Rachel McLoughlin (Ireland)

P2.07.07 Examining B cell maturation and antibody diversity in HIV-1 vaccine response: A multimerization and high-throughput sequencing study in the rhesus macaque model
Shawn Herring, Andrew Raappana, Nicholas Dambrauskas, Madeline Glad, Vladimir Vigdorovich, Noah Sather (USA)

P2.07.08 Training for disaster: macrophages, obesity, and the potential of mesenchymal stromal cells
Laura Bitterlich, Andrew Hogan, Karen English (Ireland)
POSTER SESSION 2

P2.07.09 Dietary supplementation with β-glucan induces trained immunity, correcting immune-metabolic perturbations and enhancing anti-tumour function in dietary induced obesity
Anna Ledwith, Hannah Prendeville, Cian Horneck Johnston, John McGrath, Stephen Cunningham, Frederick Sheedy (Ireland)

P2.07.11 EBI2 expression is a ubiquitous feature of murine and human tissue-resident memory T cells and functionally segregates them
Lucas Arendholz¹, Yizhu Tian¹, Julius Schwingen¹, Tonia Bargmann², Klaudia Maria Griejer¹, Valerie Beneke¹, Franziska Keidel¹, Sonja Moos¹, Zeina Salloum¹, Knut Schäkel¹, Stefano Casola², Florian Kurschus (Germany, ²Italy)

P2.07.12 Exploring MAL signalling as a mechanistic mediator of IFNγ-induced trained immunity
Isabella Batten, Dearbhla Murphy, Sarah Connolly, Grainne Jameson, Sharee Basdeo (Ireland)

P2.07.14 Effect of immunosuppressive regimen on cellular and humoral immune response to SARS-CoV-2 vaccination in anti-CD20 treated hematological patients and in solid organ transplant recipients
Laura Maggi, Anna Vanni, Manuela Capone, Lorenzo Salvati, Alessio Mazzoni, Giulia Lamacchia, Seble Tekle Kiros, Lorenzo Cosmi, Benedetta Puccini, Vito Terlizzi, Paola Romagnani, Gian Maria Rossolini, Alessandro Bartoloni, Francesco Liotta, Francesco Annunziato (Italy)

P2.07.15 Killing IgE+ plasma cells: The role of IgE B cell receptor in human IgE+ plasma cell survival
Faruk Ramadani, Tooki Chu, Helena Tolarova, Pavel Tolar (United Kingdom)

P2.07.16 Smallpox-vaccinated individuals preserve long-term immunological memory and mount serological reactivity against selected monkeypox antigens
Marcin Chodkowski, Aleksandra Osinska, Magdalena Patrycy, Malgorzata Krzyzowska (Poland)

P2.07.17 Innate training through diet: recognition of a yeast β-glucan triggers immunometabolic signaling required for trained immunity

P2.07.18 SARS-CoV-2 mRNA vaccination expands type 2 and type 4 atypical memory B cells with distinct metabolic requirements and unique class-switch recombination patterns
Guillem Montamat, Joseph C. F. Ng, Alexander T Stewart, Christopher Piper, Zara Baig, Daina Kateregga, Paul Blair, Deborah K. Dunn-Walters, Franca Fraternali, Claudia Mauri (United Kingdom)

P2.07.19 Targeting glutaminolysis pathway in trained immunity induced by oxidized low-density lipoprotein
Alice Scarpa¹, Katarzyna Placek¹, Vasiliki Matzaraki², Laszlo Groh², Siroon Bekkering², Mihai Netea², Karsten Hiller¹, Tushar More¹, Niels Riksen² (Germany, ²Netherlands)
P2.08 IMMUNE REGULATION IN CANCER

P2.08.01 Stiffness regulates dendritic cell and macrophage subtype development and increased stiffness induces a tumor associated macrophage phenotype in cancer co-cultures

Carla Guenther (Japan)

P2.08.02 RNAseq analyses uncover the transcriptional signature of NK cells and reveal S1P5 and CXCR4 as new targets to modulate tumor cell killing

Marta Puig Gamez, Martijn Van Attekum, John E Park (Germany)

P2.08.03 KIR2DL5 in bladder cancer susceptibility and treatment response

Immaculada Ruiz Lorente, Lourdes Gimeno Arias, Alicia López Abad, Maria Victoria Martínez Sánchez, Diana Ceballos Francisco, Pedro López Cubillana, Alfredo Minguela Puras (Spain)

P2.08.04 Modulation of ILC3 metabolism as a potential therapeutic target for colitis-dependent colorectal cancer

Raquel Castillo-González, Lucía Sancho, Lúa Blanco-Axpe, Irene Torres-Pulido, Alba Seguí-Pérez, Cristina Villa-Gómez, Aranzazu Cruz-Adalía (Spain)

P2.08.05 Multiparametric lymphocyte characterization in ovarian cancer: Identifying possible targets for immunotherapy

Veronika Lutz, Hartmann Raifer, Magdalena Huber (Germany)

P2.08.06 SH2D2A is an indicator of favourable prognosis in bladder cancer and is enriched in activated Treg cells

Brian Christopher Gilmour, Johan Georg Visser, Alvaro Kohn-Luque, Andreas Lossius, Anne Spurkland (Norway)

P2.08.07 Study of the interaction of tumor exosomes with neutrophils. Implication in the induction of NETosis

Lara Álvarez Rodríguez, Juan Mozas Gutiérrez, Almudena Rocha Mulero, Carlos Cabañas Gutiérrez, Raquel Reyes Manzanas, Esther M. Lafuente (Spain)

P2.08.09 Differential regulation of the chemokine CCL21 in the antitumor immune response in non-small cell lung cancer

Maria Riutort-Garvi, Pablo Delgado-Wicke, Carlos Cuesta-Mateos, Arantzazu Alfranca (Spain)

P2.08.10 Exploiting the cGAS/STING pathway to revert the immunosuppressive environment of multiple myeloma and boost Natural Killer cell-mediated immunosurveillance

Chiara Cassone, Eleonora Gnocchini, Elena Sproviero, Francesca Fazio, Maria Teresa Petrucci, Cristina Cerboni, Alessandra Soriani, Marco Cippitelli, Alessandra Zingoni (Italy)

P2.08.11 RNA polymerase I Inhibition and activation of nucleolar stress response in the anticancer activity of natural killer cells against multiple myeloma

Elena Sproviero¹, Tommaso Cipollone¹, Eleonora Gnocchini¹, Sara Petillo², Chiara Cassone¹, Alessandra Zingoni¹, Alessandra Soriani¹, Cristina Cerboni¹, Maria Teresa Petrucci¹, Francesca Fazio¹, Marco Cippitelli (Italy, USA)
P2.08.12 Dendritic cell reprogramming through the tumor secretome affects anti-tumor immunity in PDAC
**Tharrun Daniel Paul, Benedikt Stegemann, Caroline Lewe, Michael Hertl, Matthias Lauth, Elke Pogge von Strandmann, Prof. Johannes U. Mayer** (Germany)

P2.08.13 Investigating the expression of soluble immunomodulatory mediators in risk-stratified pancreatic cystic fluid and its effect on immune cell migration and T cell function.
**Rebecca Lyons, Laura Kane, Gregory Mellotte, Aoife Kilgallon, Barbara Ryan, Stephen Maher, Joanne Lysaght** (Ireland)

P2.08.14 Characterizing the impact of lymphocyte-derived extracellular vesicles on T cell function in hematologic malignancies
**Lucija Levstek, Larisa Janzic, Alojz Ihan, Andreja Natasa Kopitar** (Slovenia)

P2.08.16 An organoid-based model to study innate lymphoid cells in colorectal cancer
**Lorenzo Lucantonio, Andrea Kosta, Giuseppe Pietropaolo, Francesca Sozio, Silvia Ruggeri, Mattia Lafranchi, Laura Beltrame, Helena Stabile, Rosa Molfetta, Giuseppe Sciumè, Giovanni Bernardini, Silvano Sozzani, Angela Gismondi, Angela Santoni, Cinzia Fionda** (Italy)

P2.08.17 A prototype of biocompatible solid lipid nanoparticles targeting CD19 antigen
**Raquel Bernardo, Ana Navas, Juan Eduardo Molina Alcaide, Carmen Gutiérrez, Lide Arana, Aurora Jurado Roger** (Spain)

P2.08.18 Repeated antigenic stimulation induces expression of surface ‘Tumor necrosis factor related apoptosis ligand’ on human invariant Natural Killer T cells
**Zeynep Ayyildiz, Gerhard Wingender** (Turkey)

P2.08.19 Effect of local X-ray radiation doses on circulating immune populations in melanoma tumour-bearing mice by flow cytometry
**Ainara Barco-Tejada, Rocio López-Esteban, Elena Blázquez-López, Marjorie Pion, Rafael Correa-Rocha, Manuel Desco, Lorena Cussó** (Spain)

P2.08.20 Blinatumomab and tyrosine kinase inhibitors in B-acute leukemia: friends, or enemies?
**Adam Obr, Michal Plodik, Tereza Koranova, Denisa Myslivcova, Katerina Kuzelova, Barbora Frdlikova, Kristyna Smilauerova** (Czech Republic)

P2.08.21 Comparative analysis of adjuvants and their synergistic effect for the activation of murine liver non-parenchymal cells
**Malin Svensson, Yanira Zeyn, Maria-José Limeres, Maximiliano Cacicedo, Rocio Gambaro, Ignacio Berti, German Islan, Matthias Bros, Stephan Gehring** (Germany)

P2.08.22 B cells as a target for immunotherapy in non-alcoholic steatohepatitis and subsequently for hepatocellular carcinoma
**Aysan Pousardeghe Zonouzi, Svenja Schühle, Zeynep Ergun, Mathias Heikenwälder, Ari Waisman** (Germany)

P2.08.23 B cell expansion during gut inflammation exacerbates colorectal cancer development
**Romy Mittenzwei, Petra Adams-Quack, Thomas Wunderlich, Björn Clausen, Johannes Friedhelm Vogt, Nadine Hoevelmeyer** (Germany)
P2.08.24  Acquired resistance to trastuzumab and neratinib sensitizes HER2+ breast cancer cells to trastuzumab-dependent cell-mediated cytotoxicity
   **Javier Sanchez Ramirez, Debbie O’Reilly, John Crown, Denis M Collins** *(Ireland)*

P2.08.25  Microbial metabolites suppress the tumorigenic functions of IL-36 cytokines in colon cancer
   **Méabh Finucane, Aileen Houston, Elizabeth Brint** *(Ireland)*

P2.08.26  Serial monitoring of the inflammatory response in resectable lung cancer
   **Laura Staunton, Brian Henderson, Derek G. Doherty, Ronan Ryan, Gary Fitzmaurice, Kathy Gately** *(Ireland)*

P2.08.27  Cyp27a1-driven metabolic control in macrophages regulates the tumor microenvironment
   **Piyal Saha, Paul Ettel, Roko Sango, Andrea Vogel, Lovro Davidovski, Jayne Louise Wilson, Thomas W Weichhart** *(Austria)*

P2.08.28  Effect of melanoma on circulating immune populations in a murine model by flow cytometry
   **Ainara Barco-Tejada, Rocio López-Esteban, Elena Blázquez-López, Rafael Correa-Rocha, Marjorie Pion, Manuel Desco, Lorena Cussó** *(Spain)*

P2.08.29  RANK pathway inhibition impairs immunosuppression in macrophages enhancing the anti-tumour response
   **Alexandra Barranco, Gema Perez-Chacon, Andrea Vethencourt, Eva Maria Trinidad, Marina Ciscar, Edu Dorca, Ana Petit, Maria Teresa Soler-Monso, Maria Jimenez, Ruth Alvarez, Gonzalo Gomez, Elena Piñeiro, Gonzalo Soria-Alcaide, Ander Urruticoechea, Sonia Pernas, Catalina Falo, Eva González-Suárez** *(Spain)*

P2.08.30  ROR-1 defines a population of atypical B cells in peripheral blood phenotypically linked to malignant cells of chronic lymphocytic leukemia
   **Antonia Mikulova, Olga Vondálová-Blanářová, Hana Plešingerová, Petr Tauš, Jitka Staněáková, Jan Stuchlíy, Jana Kotalšková, Karla Plevová, Tomáš Arpaš, Tomáš Kalina, Vítězslav Bryja, Pavlína Janovská** *(Czech Republic)*

P2.08.31  Autoantibodies against AFP in liver diseases
   **Juan Francisco Delgado de la Poza, Jordi Sánchez Delgado, María Isabel Aparicio Calvente, Raquel Escrivano Tembleque, Meritxell Casas Rodrigo, Cristina Solé Martí, Mireia Miquel Planas, Mercè Vergara Gómez** *(Spain)*

P2.08.32  Role of innate CD8 T-cells in the control of residual disease in chronic myeloid leukemia
   **Amandine Decroos, Sarah Meddour, Amélie Pioch, Alice Barbarin, André Herbelin, Jean-Marc Gombert, Emilie Cayssials** *(France)*

P2.08.33  Immunomodulatory effects of repetitive radiofrequency ablation in inoperable pancreatic adenocarcinoma
   **Nino Toria, Tinatin Chikovani, Malkhaz Mizandari, Nona Janikashvili, Nino Kikodze** *(Georgia)*

P2.08.34  The tyrosine kinase inhibitor dasatinib impedes adaptive cell surveillance in peripheral lymph nodes
   **Daniela Claudino Carvoeiro¹, Ana Marcos-Jiménez², Cecilia Muñoz-Calleja², Jens Volker Stein¹** *(¹Switzerland, ²Spain)*
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P2.08.35 Dysfunctional γδ T cells are associated with aggressive squamous cell carcinoma in Epidermolysis bullosa
Leonie Schöftner¹, Julia Feiser¹, Michael Lew¹, Anshu Sharma¹, Suraj Varkhande¹, Monika Ettinger¹, Susanne Kimeswenger¹, Christina Guttmann-Gruber¹, Giorgia Nasi¹, Iris Gratz¹,² (¹Austria, ²USA)

P2.08.36 Role of SHP-2 and PD-1 in lymphoid and myeloid antitumor responses
Irene Buzzago, Pedro Ventura, Alessandro Zenobi, Hanif Javanmard Khameneh, Francesca Silini, Laurent Brossay, Greta Guarda (USA)

P2.08.37 Analysis of infiltrating MC subsets in colorectal cancer by single-cell RNA-sequencing
Erisa Putro, Alessia Carnevale, caterina marangio, Giovanna Peruzzi, Cinzia Fionda, Helena Stabile, Giuseppe Pietropaolo, Giuseppe Sciumè, Angela Gismondi, Rosa Molfetta, Valerio Fulci, Rossella Paolini (Italy)

P2.08.38 Intra-tumour mature tertiary lymphoid structures (TLSs) predict better prognosis and response to immunotherapy in clear cell renal cell cancer
Jiahe Lu, Wenhao Xu, Xi Tian, Aihetaimujiang Anwaier, Shiqi Ye, Yuhao Wu, Wangrui Liu, Hailiang Zhang, Dingwei Ye (China)

P2.08.39 A tale of two species: Unveiling the involvement of tissue type 3 dendritic cells with intratumoral T cell behavior
Giuseppe Rocca, Alessia Donato, Giulia Protti, Anna Celant, Marco Galli, Giulia Stucchi, Stefano Cozzi, Ilaria Fontana, Laura Marongiu, Metello Enzo Innocenti, Francesca Granucci (Italy)

P2.08.40 Neutrophil subset investigation in stage III melanoma patients undergoing anti-PD-1 immunotherapy or anti-BRAF/MEK target therapy
Marialuisa Trocchia, Leonardo Cristinziano, Luca Modestino, Annagioia Ventrici, Stefania Loffredo, Anne Lise Ferrara, Carlo Gabriele Tocchetti, Teresa Troiani, Gianni Marone, Maria Rosaria Galdiero (Italy)

P2.08.41 Plasma cell hyperplasia in immune-cold triple negative breast cancer is prognostic of inferior outcome
Ellie Alberts, Victoire Boulat, Miu Shing Hung, Fangfang Liu, Thomas Hardiman, Mengyuan Li, Jelmar Quist, Cheryl Gillett, Sarah Pinder, Dinis Pedro Calado, Anita Grigoriadis (United Kingdom)

P2.08.42 Hepatocellular carcinoma drives tissue-resident NK cell regulation of CD8+ T cells through the PD-L1 axis
Stephanie Kucykowicz, Gloryanne Aidoo-Micah, Daniel Brown Romero, George Finney, Anandita Mathur, Alberto Quaglia, Andrew Hall, Jack Leslie, Derek Mann, Laura J. Pallett, Mala K. Maini, Mariana Diniz (United Kingdom)

P2.08.43 Association of circulating inflammatory factors with postoperative complications after gastric cancer surgery
Neringa Dobrovolskiene, Agata Mlynska, Daniel Doval, Vita Pasukoniene (Lithuania)

P2.08.44 Tumours of different invasiveness secrete small extracellular vesicles of distinct lipid composition influencing CD1a-restricted T cell responses
Mikolaj Klimeczuk, Felicja Gajdowska, Michal Mlynarczyk, Weronika Hewelt-Belka, Danuta Gutowska-Owsiak (Poland)
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P2.08.45  NK-LGL comprise dominant pools of adaptive NK cells that help distinguish from NK cell expansions
Tim Holmes\textsuperscript{1,2}, Ram Pandey\textsuperscript{2}, Paollo Cirillo\textsuperscript{1}, Yenan Bryceson\textsuperscript{1,2} (\textsuperscript{1}Norway, \textsuperscript{2}Sweden)

P2.08.47  Lamps and autophagy as predictive markers in colorectal cancer - A pilot study
Tsvetomira Ivanova, Diana Molander, Dorian Dikov, Yordan Sbirkov, Maria Kazakova, Valentin Dichev, Nikolay Mehterov, Angel M. Dzhambov, Nikolay Belev, Boyko Atanasov, Victoria Sarafian (Bulgaria)

P2.08.48  Significance of standard laboratory techniques in the monitoring of monoclonal gammopathies
Mariem Marrak, Dhoua Krir, Imen Zamali, Yosra Nasri, Hayet Kebaier, Ines Ben Sghaier, Ahlem Ben Hmid, Melika Ben Ahmed, Yousr Galai (Tunisia)

P2.08.49  Strong YKL-40 expression in the invasive tumor front of colorectal cancer - a pilot study
Maria Kazakova\textsuperscript{1}, Tsvetomira Ivanova\textsuperscript{1}, Diana Molander\textsuperscript{1}, Dorian Dikov\textsuperscript{2}, Kiril Simitchiev\textsuperscript{1}, Yordan Sbirkov\textsuperscript{1}, Victoria Sarafian\textsuperscript{1} (\textsuperscript{1}Bulgaria, \textsuperscript{2}France)

P2.08.50  Histone 3 acetylation is altered in NK cells from metastatic breast cancer patients
Ethan Collins, Clair Gardiner, Clara O’Hanlon Brown (Ireland)

P2.08.51  Activated human macrophages suppress growth and kill cancer cells
Jan-Morgan Dybdal, Inger Øynebråten, Alexandre Corthay (Norway)

P2.08.52  CD84 as a therapeutic target for breaking immune-tolerance in triple-negative breast cancer
Stav Rabani\textsuperscript{1}, Emine Gulsen Gunes\textsuperscript{2}, Martin Gunes\textsuperscript{2}, Bianca Pellegrino\textsuperscript{1}, Bar Lampert\textsuperscript{1}, Keren David\textsuperscript{1}, Aimin Li\textsuperscript{2}, Raju Pillai\textsuperscript{2}, Shirly Herman\textsuperscript{1}, Steven T. Rosen\textsuperscript{2}, Idit Shachar\textsuperscript{1} (\textsuperscript{1}Israel, \textsuperscript{2}USA)

P2.08.53  Colorectal cancer-infiltrating \(\gamma\delta\) T cells express immunological checkpoints and correlate with microsatellite instability and patients outcome
Marta Di Simone, Anna Maria Corsale, Mojtaba Shekarkar Azgomi, Costanza Dieli, Cirino Botta, Serena Meraviglia, Francesco Dieli (Italy)

P2.08.54  Does serum free light chain ratio predict the detection of Bence-Jones protein in urine?
Laura García Bravo, Mireia Fonolleda, Arnau Sánchez, Mª Carmen Rico (Spain)

P2.08.55  NK cells with adhesion defects and reduced cytotoxic functions are associated with a poor prognosis in multiple myeloma
Bineta Rigaud, Eve Blanquart, Ruçhan Ekre, Pierre-Paul Axisa, Ludovic Martinet (France)

P2.08.56  Antitumor dynamics of Natural Killer cells in 3D tumor organoid model
Jue Shi (Hong Kong)

P2.08.57  The expression of metallothionein in various molecular types of breast cancer
Damir Grebic, Tamara Gulic, Sara Bilic Knezevic (Croatia)

P2.08.58  BAP1 deletion disrupts IFN\(\gamma\) signaling and sensitizes cancer cells to NK cell cytotoxicity
Chiara Badami, Linnea Kristenson, Frida Svensson, Theebiga Kathirkamanathan, Fredrik Bergh Thorén (Sweden)
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P2.08.59 Restraining mitochondrial oxidative stress tailors regulatory T cells fate to unleash antitumor immunity
Dimitra Kerdidani¹, Katerina Zacharopoulou¹, Dimitris Laoutaris¹, Aggeliki Siafololi¹, Dimitra Spyropoulou¹, Nikos Papaioannou², Rafael Argüello², Panayotis Verginis³, Themis Alissafi¹ (Greece, ²France)

P2.08.60 Study of Sialic acid/SIGLEC axis in PDAC tumor microenvironment (TME)
Shabnam Khalilnezhad, Xiaofei Yu, Kelly Boelaars, Ernesto Rodriguez Camejo, Laura Kruijssen, Febe Maldegem, Yvette van Kooyk (Netherlands)

P2.08.61 Deletion of the TMEM30A gene allows leukemic cell evasion of NK cell cytotoxicity
Linnea Kristenson¹, Chiara Badami¹, Angelica Ljungberg¹, Erna Islamagic¹, Yarong Tian¹, Guojiang Xie¹, Brawa Hussein¹, Silvia Pesce², Ka-Wei Tang¹, Fredrik Bergh Thorén¹ (Sweden, ²Italy)

P2.08.62 Investigating neuroinflammation in the human brain tumor microenvironment using the new RNAscope™ multiomic assay
Debia Wakhloo¹, Sonali Deshpande¹, Li-Chong Wang¹, Andrew Wilcox², John Pulliam¹, Ge-Ah Kim¹, Maithreyan Srinivasan¹, Anushka Dikshit¹ (USA, ²United Kingdom)

P2.09 IMMUNE RESPONSE REGULATION: CELLULAR MECHANISMS

P2.09.01 The interplay between intracellular pathogen proliferation and host cell death induction and metabolism during L. major infection
Leon-Alexander Dewitz, Iris Baars, Andreas Müller (Germany)

P2.09.02 Mitochondria in intercellular communication between stem cells and B cells
Veronika Somova¹, Natalie Fikarova¹, Daniel Vasek¹, Natalie Jaborova¹, Martin Prevorovsky¹, Zuzana Nahacka¹, Jiri Neuzil¹,², Magdalena Krulova¹ (Czech Republic, ²Australia)

P2.09.03 Molecular mechanisms and therapeutic implications of T and B cell subpopulations in common variable immunodeficiency with granulomatous-lymphocytic interstitial lung disease
Alejandro Pereiro Rodríguez, Nabil Subhi-Issa, Maria Palacios Ortega, Teresa Guerra Galan, Kauzar Mohamed Mohamed, Maria Dolores Mansilla Ruiz, Angela Villegas Mendiola, Marc Perez-Guzman, María Guzmán-Fulgencio, Miguel Fernandez Arquero, Silvia Sanchez Ramon (Spain)

P2.09.04 Mast cells switch their secreted cytokine profile from pro-inflammatory to pro-tolerant upon prolonged IL-33 exposure
Andrea Teufelberger¹, Carolin Költing¹, Melanie Heßler², Magda Babina², Peter Wolf¹ (Austria, ²Germany)

P2.09.05 Activation of the noncanonical caspase-4/-5 inflammasome in human endothelial cell results in secretion of proinflammatory proteins and macrophage activation
Katarina Nurmi¹, Martina Lorey¹, Jukka Parantainen¹, Wojciech Cypryk², Vesa-Petteri Kouri¹, Tuula Anneli Nyman³, Kari K. Eklund¹ (Finland, ²Poland, ³Norway)
P2.09.06 Signaling lymphocyte activation molecule 7 (SLAMF7) in the differentiation of human, pathogen-specific T cells
Lisette Fickenscher, Katrin Vogel, Irina Han, Aditya Arra, Holger Lingel, Jan-Erik Sander, Dirk Bretschneider, Monika Brunner-Weinzierl (Germany)

P2.09.07 Targeting of SLAMF7 on human CD8+ T cells to enhance responsiveness against tumor-associated antigens
Jan-Erik Sander, Holger Lingel, Katrin Vogel, Aditya Arra, Irina Han, Lisette Fickenscher, Monika Brunner-Weinzierl (Germany)

P2.09.08 Immunity of lipid-lowering drugs – how statins and PCSK9 inhibition shape immune phenotype and function
Philipp Schatzlmaier, Michael Leutner, Sarah Hofer-Zeni, Alexandra Kautzky-Willer, Hannes Stockinger (Austria)

P2.09.09 Role of the production of cytokines induced by excess mechanical stress in human periodontal ligament cells
Hidenobu Senpuku, Erika Yamashita, Toshiki Uematsu, Shinichi Negishi (Japan)

P2.09.10 Cytokine profiling in mouse spleen cell culture supernatants using multiplexed bead-based immunoassay: comparison of flow cytometry and xMAP technology
Raluca Chelmus, Irina-Elena Ionescu, Iuliana Caras, Vlad Tofan, Catalin Tucureanu, Adrian Onu, Crina Stavaru (Romania)

P2.09.11 The impact of growth factors and differentiation conditions on murine bone marrow-derived dendritic cells: Phenotypic and functional evaluation
Irina-Elena Ionescu, Catalin Tucureanu, Raluca Chelmus, Vlad Tofan, Adrian Onu, Crina Stavaru, Iuliana Caras (Romania)

P2.09.12 Human MAIT cell profiles biased towards IL-17 or IL-10 are transient effector states directed by the cytokine milieu
Caroline Boulouis^1, Elli Mouchtaridi^1, Thomas R. Müller^1, Jeffrey Y.W. Mak^2, David P. Fairlie^2, Peter Bergman^1, Jakob Michaëllson^1, Jonas Halfvarson^1, Jenny Mjösberg^1, Marcus Buggert^1, Johan K. Sandberg^1 (1Sweden, 2Australia)

P2.09.13 Macrophages treated with interferons induce different response in lymphocytes via extracellular vesicles
Daniela Angelini, Flavia Giannessi, Zulema Percario, Valentina Lombardi, Andrea Sabatini, Alessandra Sacchi, Veronica Lisi, Luca Battistini, Giovanna Borsellino, Elisabetta Affabris (Italy)

P2.09.14 Regulation of natural killer cell metabolism and anti-tumour responses by macrophages
Cathal Keane, Maxim Nosenko, Cristhiane Favero de Aguiar, Chloe Choi, David Finlay (Ireland)

P2.09.15 Dysregulation of the TLR3/IFIH1 pathway at juvenile dermatomyositis onset may implicate viral infection as a disease trigger
Thomas Moreau, Vincent Bondet, Chloe Albert-Vega, Yves-Jean Zhu, Florian Dubois, Rahal Farah, Etienne Villain, Bodemer Christine, Samuel Bonhomme, Margaux Cescato, Laurye-Anne Eveillard, Marie-Louise Frémont, Benjamin Fournier, François Maillot, Pierre Quartier, Eugénie Sarda, Adrien Schwartz, Isabelle Melki, Cyril Gitiaux, Brigitte Bader-Meunier, Mathieu Rodero, Darragh Duffy (France)
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P2.09.16 Development of pooled CRISPR screening method for primary human macrophages
Miaomiao Qiao, Maximilian Jordan, Feng Liu, Liye Chen (United Kingdom)

P2.09.17 Dynamics of human Tand B cells following antigenic stimulation
Emilia Malvicini¹, Ganesh Phad², Serena Curti¹, Valeria Bevilacqua¹, Federica Sallusto², Ludovica Bruno¹, Antonio Lanzavecchia¹ (Italy, ²Switzerland)

P2.09.18 Investigating the effect of fibroblast growth factor-23 on neutrophil migration
Naeman Ali, Onn Shaun Thein, David Tickett, Aaron Scott, Dhruv Parekh (United Kingdom)

P2.09.19 Analysis of platelet monocyte complexes in patients with ST-elevation myocardial infarction
Talia Ahrazoglu, Jennifer Isabel Kluczny, Tamara Straub, Fabian Nienhaus, Jonathan Rohrer, Patricia Kleimann, Lisa-Marie Irschfeld, Maren Döring, Ann Katrin Bergmann, Florian Bönner, Ulrich Flögel, Norbert Gerdes, Sebastian Temme (Germany)

P2.09.20 Tonsil organoids reveal that plasmacytoid dendritic cells modulate the humoral immune response to ChAdOx1 nCoV-19
Maria Pudjohartono, Kate Powell, Eleanor Barnes, Paul Kleenerman (United Kingdom)

P2.09.21 Evaluation of HLA-G levels in human umbilical cord blood-derived mesenchymal stem cells after co-culture with PBMCs
Ayse Erol Bozkurt, Sule Karataş, Figen Abatay Sel, Mediha Süleymanoğlu, Beril Yaşar, Hayriye Şentürk Çiftçi, Fatma Savran Oğuz (Turkey)

P2.09.22 Peripheral blood lymphocyte cell subsets in subjects with silicosis due to engineered stone
Gema Jiménez-Gómez, Antonio Campos-Caro, Alejandro Nuñez-García, Antonio Molina-Hidalgo, Antonio León-Jiménez (Spain)

P2.09.23 Delineating the immunological responses in people admitted to the ICU with direct and indirect lung injuries using single-cell RNA sequencing
Priyanka Hastak, Christopher R. Andersen, Zong-Hong Zhang, Aayushma Lohani, Chansavath Phetsouphanh, David van Bockel, Swosti Shrestha, Frances Bass, Naomi Hammond, Nicodemus Tedla, Anthony Kelleher, Sarah C. Sasson (Australia)

P2.09.24 Recent thymic emigrants in SARS-CoV-2 infection and post-COVID-19
Xiaobo Huang, Suvi Jokiranta, Kirsten Nowlan, Nelli Heikkilä, Anu Kantele, Olli Vapalahti, Eliisa Kekäläinen (Finland)

P2.09.25 Effect of long-term cryopreservation on peripheral blood mononuclear cell viability and immune cell subset frequency
Taliha Inan, Cagla Nigde, Asli Korkmaz, Sinem Guna, Duygu Sag (Turkey)

Florabelle Cabarrubias, Swagata Chakraborty, Tamás Takács, Attila Gacser (Hungary)
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P2.09.28 Immunomodulatory effect of phenylhydantoin derivatives on myeloid leukemia cells
Ana Obradović, Miloš Matić, Branka Ognjanović, Bojan Božić, Biljana Božić Nedeljković (Serbia)

P2.09.29 The pathophysiological implications of interleukin-6 concentrations associated with COVID-19 in human trophoblasts
Miloš Matić, Ana Obradović, Milica Paunović, Branka Ognjanović (Serbia)

P2.09.30 Interferon-β exposure and ARTS deficiency promote the generation of hyper-efferocytic Ly-6C+ macrophages during the resolution of inflammation
Orly Zeituni-Timor, Soaad Soboh, Hiba Yaseen, Senthil Kumaran Satyanarayanan, Maha Abu Zeid, Esther Silberberg, Sagie Schif-Zuck, Sarit Larisch, Amiram Ariel (Israel)

P2.09.31 The number of classical and non-classical monocytes are altered in the peripheral blood from patients with silicosis due to engineered stone
Alberto Gallardo García, Gema Jiménez-Gómez, Antonio León-Jiménez, Antonio Campos-Caro (Spain)

P2.09.32 Cross-reactivity to microbiota shapes natural CD4+ T cell responses against neo-antigens associated with acute lymphoblastic leukemia
Mikhail Goncharov, Petra Bacher, Alexander Scheffold (Germany)

P2.09.33 Comparing three methods for the isolation of exosomes from plasma in subjects with overweight and 3T3-L1 cell culture
Jacqueline Noboa-Velástegui, Juan Carlos Leon Contreras, Jorge Castro Albarran, Ana-Lilia Fletes-Rayas, Iñaki Álvarez, Rosa Elena Navarro Hernandez (Mexico, Spain)

P2.09.34 Activated platelets rapidly induce pro-inflammatory phenotype and function in monocytes
Nicola Dark, Harriet Allan, Timothy Warner, Dianne Cooper, Paul Armstrong (United Kingdom)

P2.09.36 Exploring the human immune response through tonsil-derived organoids
Maria Cavaco, Rodrigo Pedroso, Diana Matias, Luis Graça (Portugal)

P2.09.37 Deciphering the pathological involvement of circulating immune complexes during viral infections
Lucas Auguste, Lamia Bouzi, Léa Domitien, Franck Mennechet, Edouard Tualllon (France)

P2.09.38 Unraveling glycan recognition: a cellular approach to studying lectin receptor-ligand interactions
Eleonora Nardini, Katarina Olesek, Fabio Balzarini, Eveline Li, Ernesto Rodriguez Camejo, Yvette van Kooyk (Netherlands)
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P2.09.39 NK cell regulation of humoral immunity in therapeutic vaccination
Joseph McDowell, Stephanie Kucykowicz, Jessica Davies, Dimitra Peppa, Mariana Diniz, Mala K. Maini (United Kingdom)

P2.09.40 TLR7/8 agonism reshapes hepatic immunity and improves the response to bacterial infection in liver fibrosis
Dimitrios Patseas, Eoin Mitchell, Sarah Morel, Cathrin L. Gudd, Prakash Ramachandran, Lucia A. Possamai, Evangelos Triantafyllou (United Kingdom)

P2.09.41 Induction of immunoregulatory responses at the injection site of vaccine adjuvant alum.
Nico Roche, Aoife Gorman, Katie O'Grady, Dorian Dederko, Ed Lavelle (Ireland)

P2.09.42 Investigating the salivary gland tissue microenvironment in Sjögren's disease using Imaging Mass Cytometry™
Hanne Borge, Stian Tornaas, Tamandep Kaur Bharaj, Siren Fromreide, Ylva Bratterud Helgesen, Rebecca Jane Cox Brokstad, Karl Brokstad, Johan Gorgas Brun, Roland Jonsson, Brith Bergum, Malin Viktoria Jonsson, Silke Appel, Kathrine Skarstein (Norway)

P2.09.43 Transcriptomic analysis reveals distinct effect of cigarette smoke on lung and systemic macrophage populations
Lynne Faherty¹, William Z. Zhang², Mays M. Salih², Elektra K. Robinson², Elizabeth Perez², Kihwan Kim², Susan Carpenter², Suzanne Cloonan¹² (Ireland, USA)

P2.09.44 Microbial-derived tryptophan metabolites selectively influence cytokines secretion by polarized human lymphocytes
Lu Yao, Brian Forde, Cebile Ndwandwe, Liam O'Mahony (Ireland)

P2.09.45 Key role of human regulatory T cell-derived extracellular vesicles in the control of immune tolerance
Giusy De Rosa, Claudia Russo, Dario Di Silvestre, Alessandra Colamatteo, Claudia La Rocca, Clorinda Fusco, Fortunata Carboni, Pierluigi Mauri, Vincenzo Di Marino, Francesca Brambilla, Valentina Bollati, Annamaria Finardi, Fabio Buttari, Silvia Garavelli, Simona Bonavita, Gianmarco Abbadessa, Antonio Uccelli, Marco Salvetti, Diego Centonze, Roberto Furlan, Giuseppe Matarese, Claudio Proccaccini, Paola de Candia (Italy)

P2.09.46 Cereblon expression in human peripheral blood mononuclear cells in response to in vitro stimulation with M. Leprae
Edessa Negera Gobena (United Kingdom)

P2.09.47 Profiling of immune cell metabolism in autoimmune Addison's disease
Alexander Hellesen, Thea Sjøgren, Anette S.B Wolff, Bergithe E. Oftedal (Norway)

P2.09.48 Long lasting in vitro monocyte to macrophage differentiation
Luis Alberto De Los Santos-González, Francisco Javier Sánchez-García, María Maximina Bertha Moreno-Altamirano (Mexico)
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P2.09.49 Impact of symbiotic supplementation on white blood cells count in obese adults: a double-blind study
Andressa Gomes Batista Manzur, Sergio Avelino Mota Nobre, Waldemar de Paula-Júnior, Rodrigo Gentil Miquilino de Oliveira, Brendha de Almeida, Luiz Gustavo Rodrigues Rocha, Ronize Viviane Jorge de Faria, Mariléia Chaves Andrade (Brazil)

P2.09.50 NK cells with lower proliferative capability and higher effector functions generated by human amniotic epithelial cells
Fabio Morandi, Martina Della Lastra, Irma Airoldi, Roberto Gramignoli (Italy)

P2.09.51 Regulatory T-cell expansion after SARS-CoV-2 in vitro stimulation in non-responders to the COVID-19 vaccine in vulnerable groups
María del Mar Pozo-Balado, Helena Clavero-Mestres, Ángel Bulnes-Ramos, Vanessa Garrido-Rodríguez, Israel Olivas-Martínez, Carmen Morales García, Marianela Iriarte-Gahete, Carmen Lozano, María Francisca González Escribano, Manuel Leal, Yolanda M. Pacheco (Spain)

P2.10 IMMUNE RESPONSE REGULATION: MOLECULAR MECHANISMS

P2.10.01 ARID5B-mediated LINC01128 epigenetically activated pyroptosis and apoptosis by promoting the formation of the BTF3/STAT3 complex in antiphospholipid syndrome
Yuan Tan, Liyan Cui (China)

P2.10.02 Neutrophil extracellular trap-associated glycosidases shape the immune response
Rebecca Chukwuanukwu, Jasmin Knopf, Martin Herrmann (Germany)

P2.10.03 Impairment of alternative NLRP3 inflammasome pathway in peripheral blood monocytes from inflammatory bowel disease patients
Carlos Sánchez Rodríguez, Pablo Hurtado Blanco, Almudena Otalora, Gema Salgado Cecilia, Rosa Moya Quiles, Jose Antonio Galián Megías, Gonzalo Antón Ródenas, Manuel Muro Amador, Helios Martínez Banaclocha (Spain)

P2.10.04 The histone variant H2A.J shapes immune responses
Tanja Vera Kübelbeck, Daniela Kramer, Antonia Kolb, Berenice Fischer (Germany)

P2.10.05 The immunomodulatory functions of long noncoding RNA DANCR in melanoma
Ege Amirak¹, Fatih Sezer¹, Ryan M. O’Connell², H. Atakan Ekiz¹ (¹Turkey, ²USA)

P2.10.06 Phosphatases of regenerating liver balance F-actin rearrangements during T cell activation through WD repeat containing protein 1
Oscar Aguilar Sopena¹, Carlos Carrasco Padilla¹, Alvaro Gomez Moron¹, Patricia Castro Sanchez¹, Matias Estarás Hermosel¹, Salvatore Valvo², Sergio Alegre Gomez¹, Raúl Torres Ruiz¹, Sandra Rodriguez Perales³, Shehan Ismail³, Francisco Sanchez-Madrid¹, Noa Beatriz Martín Cofreses¹, Michael L. Dustin¹, Pedro Roda Navarro¹ (¹Spain, ²United Kingdom, ³Belgium)

P2.10.07 End-binding protein-1 regulates the metabolic fate of CD4 T lymphocytes through the organisation of the mitochondrial network
Alvaro Gomez Moron, Silvia Requena, Clara Pertusa, Marta Lozano-Prieto, Camila Scagnetti, Diego Caizada-Fraile, Ana Adela Calero-García, Manuel Izquierdo-Pastor, Pedro Roda Navarro, Noa Beatriz Martín-Cofreses (Spain)
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<td>Priya Ghosh1,2, Jacqueline Eich2, Tobias Dallenga2, Ulrich E. Schaible2, Avinash Sonawane1 (India, 2Germany)</td>
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<td>Ondřej Ballek, Valerie Tahtahova, Dominik Filipp (Czech Republic)</td>
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<td>Analysis of TAM receptor expression in patients with Sjögren's disease</td>
<td>Irene Sarkar1, Hanne Borge1, Kirsten Lassing1,2, Aleksandra Petrovic1, Tamandeep Kaur Bharaj1, Alireza Molai1, Richard Davies1, Magdalena Alfredsen1, Johan Gorgas Brun1, Roland Jonsson1, Kathrine Skarstein1, Silke Appel1 (Norway, 2Netherlands)</td>
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<td>Jasmin Knopf1, Kursat O. Yaykasli1, Karin A. van Schie2, Manfred Wuhrer2, Michael Boettcher1, Martin Herrmann1, Rostyslav Bilyy1,4 (Germany, 2Netherlands, 3Ukraine, 4Romania)</td>
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<td>Using biorthogonal (CLICK) chemistry to measure nutrient uptake flux in single immune cells</td>
<td>Connor Corrigan, Luuk Reinalda, Sander van Kasteren, David Finlay (Netherlands)</td>
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<td>P2.10.14</td>
<td>Phosphatase of regenerating liver-1 regulates the activity of Lck during early T cell receptor signalling.</td>
<td>Carlos Carrasco Padilla, Oscar Aguilar Sopena, Alvaro Gomez Moron, Raúl Torres Ruiz, Sandra Rodriguez Perales, Noa Martín Cóférecs, Pedro Roda Navarro (Spain)</td>
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<td>P2.10.15</td>
<td>Vesicle transport inhibitors induce weak Nur77 expression in murine iNKT and B cells, potentially leading to false positive signals</td>
<td>Yavuz Mercan, Gerhard Wingender (Turkey)</td>
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<td>P2.10.16</td>
<td>Maternal microbial metabolites in the fetal intestine and their effects on immunomodulation and epithelial function</td>
<td>Roselydiah Makunja, Arina Maltseva, Tiina Pessa-Morikawa, Masuma Khatun, Ville Koistinen, Ölli Kärkkäinen, Niko Paalanne, Kati Hanhineva, Terhi Ruuska, Mikael Niku (Finland)</td>
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<td>P2.10.17</td>
<td>Development of an immunoassay for quantification of soluble human CD40L (CD154) in plasma samples</td>
<td>Kathrine Pedersen, Nick Stub Laursen, Annette Gudmann Hansen, Yaseelan Palarasah, Steffen Thiel (Denmark)</td>
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<td>P2.10.18</td>
<td>Similarly reshaped cytokine profile in malignant and autoimmune hematologic disorders</td>
<td>Nino Nanava, Sophia Metreveli, Nino Kikodze, Giorgi Giorgobiani, Tinatin Chikovani, Nona Janikashvili (Georgia)</td>
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P2.10.20 Crosstalk between innate immune system and bone metabolism is influenced by cell-free DNA quantity and mediated by cyclic GMP-AMP synthase
Patrik Škubica, Bhaswarupa Banerjee, Marketa Husakova, Pavlina Dankova (Czech Republic)

P2.10.21 Deciphering tissue-specific epigenetic signatures governing memory T lymphocyte residency
Xiangyi Deng, Weijie Du, Gilles Gasparoni, Abdulrahman Salhab, Karl Nordström, Jinchuan Li, Erping Zhang, Joachim Wachtlin, Juliane Bodo, Simon Reinke, Carsten Perka, Hardt Sebastian, Thomas Dörner, Mario Tönnies, Hyun-Dong Chang, Julia K. Polansky, Jörn Walter, Pawel Durek, Andreas Radbruch, Jun Dong (Germany)

P2.10.24 Phospho-flow based immunometabolic biomarkers for pharmacodynamic evaluations: translation from bench to bedside
Bas Smal, Diana Pereira, Matthijs Moerland, Lisa van Schijndel (Netherlands)

P2.10.25 CTLA-4, PD-, LAG3, TIM3 and TIGIT display distinct vesicular distributions in murine T cells
Jiahe Lu1,2, Boris Simonetti1, Alisa Veler1, Stephen Cross1, Xiongtao Ruan3, Timsse Raj1, Andrew Dowsey1, Robert F. Murphy3, Paul Verkade1, Pete Cullen1, Christoph Wulfing1 (1United Kingdom, 2China, 3USA)

P2.10.26 The effects of the hypoosmolar environment developing in hyponatremia on immune system cells
Muhammed Ali Kızmaz, Abdulmecit Yildiz, Abdurrahman Simsek, Demir Kaan Demir, Tugce Bozkurt, Yusuf Cesmeci, Aysegul Oruc, Alparslan Ersoy, Elif Gullulu, Mehmet Sezen, Ferah Budak (Turkey)

P2.10.27 Functional dissection of RNA modification Pseudouridine in T cells
Vanshika Malviya, Thi Cuong Pham, Susan Schlenner (Belgium)

P2.10.28 Investigation of the effects of bevacizumab treatment on the immune system in age-related macular degeneration

P2.10.29 Role of Irisin in autosomal dominant polycystic kidney disease
Ali Eren Iskin, Abdulmecit Yildiz, Abdurrahman Simsek, Muhammed Ali Kızmaz, Tugce Bozkurt, Aysegul Oruc, Alparslan Ersoy, Ferah Budak (Turkey)

P2.10.30 Dissecting the immune microenvironment in a high grade serous ovarian cancer murine model following platinum treatment and epigenetic modulation
Michele De Luca, Francesca Basso, Barbara Belletti, Mario Paolo Colombo, Delia Mezzanzanica, Gustavo Baldassarre, Elena Jachetti (Italy)

P2.10.31 Role of autophagy in antitumor activity of human NK cells
Piera Filomena Fiore, Ignazio Caruana, Nicola Tumino, Maria Teresa Bilotta, Sergio Forcelloni, Francesca Nazio, Lorenzo Moretta, Paola Vacca (Italy)

P2.10.32 Investigating the role of E3 ubiquitin ligase Pellino1 in B cell antigen uptake
Pratiti Nanda, Nawal Khan, Theresia Allo Anginan, Dessi Malinova (United Kingdom)
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P2.10.33 AKNA is a novel RNA-binding protein that localizes to the centrosome and regulates the germinal center reaction
Lisa Kifinger†, Gesine Behrens†, Rosa Schmitz†, Anneli Petes†, Kai Höfig†, Juliane Merl-Pham†, Stefanie Hauck†, Joao Guimaraes‡, Henning Urlaub†, Magdalena Götz†, Vigo Heissmeyer† (Germany, ‡Portugal)

P2.10.34 Deficiency in nitric oxide production by myeloid cells during LPS-induced inflammation in naked mole-rats H. glaber
Ekaterina Gorshkova, Ekaterina Gubernatorova, Svetlana Purtova, Olga Averina, Michael Adrianov, Mikhail Vyssokikh, Marina Drutskaya, Sergei Nedospasov (Russian Federation)

P2.10.35 Combining single-cell short and long-reads sequencing for dissecting immune cell states
Azahara Fuentes-Trillo, Mariacristina De Luca, Davide Bolognini, Luca Seffin, Luca Basso-Ricci, Alessandro Aiuti, Serena Scala, Cecilia Dominguez (Italy)

P2.10.38 Dissecting immune cell states in healthy and CMV-infected newborns through single-cell sequencing technologies
Altea Gjurgjaj, Azahara Fuentes-Trillo, Mariacristina De Luca, Luca Seffin, Luca Basso-Ricci, Andrea Ronchi, Lorenza Pugni, Alessandro Aiuti, Carlo Pietrasanta, Serena Scala, Cecilia Dominguez (Italy)

P2.10.40 Alterations in the natural autoantibody network during pregnancy in Hashimoto’s thyroiditis
Szabina Erdő-Bonyár, Diána Simon, Ahmed Badawy, Anna Bajnok, Ákos Várnagy, Kálmán Kovács, Emese Mezősi, Tímea Berki (Hungary)

P2.10.41 Validation of inflammatory markers’ association with rheumatic heart disease in an African cohort
Taariq Salie, Zahra Parker, Timothy Spracklen, Liesl Zuhlke, Mpiko Ntsekhe, Mark Engel (South Africa)

P2.10.42 Functional analysis of elongation factor 1 alpha 1 in M1 macrophage differentiation
Eri Shimura, Ayako Shigenaga, Tadashi Ando, Ryo Ishihara, Takeshi Baba, Fumiyuki Yamakura (Japan)

P2.10.44 Immunological changes in humoral and cell immunity in chronic fatigue syndrome
Steliyan Petrov, Martina Bozhkova, Teodora Kalfova, Maria Ivanovska, Dobrina Dudova, Katya Vaseva, Ralitsa Nikolova, Mihail Petrov (Bulgaria)

P2.10.45 Mechanistic insights into how immunomodulatory drugs mediates resting CD4+ T-cell metabolic reprogramming ex vivo
Elisa Formiconi†, Valentin De Masson d’Autume†, Nathan Francois†, Virginie W. Gautier† (Ireland, ‡Italy)
P2.10.46  HIF1α regulates Tfr induction that restrains Tfh13 polarization in a murine model of allergy
Carmen Camarena, Anuj Tharakan, Rebecca K. Martin (USA)

P2.10.47  The influence of sex hormones on the immune checkpoints expression in recurrent pregnancy loss and pregnant women
Michał Zych, Monika Kniotek, Filip Dąbrowski, Aleksander Roszczyk, Radosław Zagożdzon (Poland)

P2.10.48  Evaluation of IL-10 role in atopic diseases: anti-inflammatory or pro-inflammatory effect?
Daina Bastyte, Laura Tamasauskiene, Kamilija Briede, Skaidra Valiukeviciene, Brigita Gradauskiene (Lithuania)

P2.10.49  Unraveling the mechanisms of spatial organization in the immunological synapase
Artem Kalinichenko, Jakob Huemer, Matthias Haimel, Theresa Humer, Michael Svaton, Celine Prakash, Maximilian von der Linde, Julia Guthrie, Cheryl van de Wetering, Anton Kamnev, Elisa Hahn, Christina Rashkova, Birgit Hoeger, Georg Winter, Loic Dupre, Kaan Boztug (Austria)

P2.11 IMMUNE SENESCENCE

P2.11.02  Protective effect of cortistatin upon thymic regression
Marina García-Frutos, Marta Caro, José L. Ruiz, Natividad Martin-Morales, Francisco O’Valle, Mario Delgado (Spain)

P2.11.03  How an acute stress impacts immunity in elderly patients?
Manon Chauvin, Jamila Dhiab, Martin Larsen, Eric Pedruzzi, Hélène Vallet, Jacques Boffaert, Delphine Sauce (France)

P2.11.04  Shorter supplementation of vitamin D is associated with an inflammatory and senescent immune profile in older people
Maike Mangold, Dicle Celik, Valentin Vetter, Ilja Demuth, Beate Kruse, Manuela Dingeldey, Andreas Thiel, Julian Braun (Germany)

P2.11.05  Cross-talk between overweight and immunosenescence in healthy adults
Yana Todorova, Radoslava Emilova, Milena Aleksova, Vesselin Koleva, Maria Nikolova (Bulgaria)

P2.11.06  Beyond the obstruction: immunological perspectives on aortic stenosis and coronary artery disease
Pablo Alvarez-Heredia, Jose Joaquin Domínguez-del-Castillo, Irene Reina-Alfonso, Monica Espinar-Garcia, Isabel Maria Vallejo-Bermudez, Carmen Gutiérrez, Fakhri Hassouneh, Alexander Batista-Duharte, Rafael Solana Lara, Ignacio Muñoz, Alejandra Pera Rojas (Spain)
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P2.11.07 Role of β2 integrins on dendritic cells in immunosenescence
Christoph Hieber, Yanira Zeyn, Nadine Röhrig, Evelyn Montermann, Matthias Bros, Stephan Grabbe (Germany)

P2.11.08 Homelessness and low socioeconomic status drive broad immune dysregulation and impair vaccine induced immunity to SARS CoV2
Conor Reddy, Ailbhe Herity, Matt McElheron, Adam Dyer, Nicole Roche, Jean Dunne, Barry Moran, Jean Fletcher, Nollaig Bourke, Cliona Ni Cheallaigh (Ireland)

P2.11.10 The metabolic impact of NKG2D co-stimulation on TCR activation in human CD8 T cells during ageing
Rino Kimura1,2, Souraya Sayegh1, Olivia Bracken1, Sian Henson1, Arne Akbar1 (United Kingdom, 2Japan)

P2.11.11 DNA damage-dependent autophagy in macrophages promotes the MHC-II presentation of immunogenic peptides
George Niotis1, Erminoni Arvanitaki1, Emmanouil Theodorakis1, George Garinis1, Adrian Schmalen Schmalen2 (Greece, 2Germany)

P2.12 INNATE LYMPHOID CELLS

P2.12.01 Metabolic heterogeneity between tissue-resident NK cells
Carrie Corkish, David Finlay (Ireland)

P2.12.02 Divergent roles for STAT4 in shaping differentiation of cytotoxic ILC1 and NK cells during gut inflammation
Gianluca Scarno1, Julija Mazej2, Mattia Laffranchi2, Chiara Di Censo3, Irene Mattiola3, Arianna Maria Candelotti2, Giuseppe Pietropaolo2, Helena Stabile2, Cinzia Fionda2, Giovanna Peruzzi2, Stephen R Brooks1, Wanxian Li Tsai1, Yohei Mikami3, Giovanni Bernardini2, Angela Gismondi2, Silvano Sozzani2, James Di Santo3, Christian Vosshenrich3, Andreas Diefenbach4, Massimo Gadina1, Angela Santoni2, Giuseppe Sciumé2 (USA, Italy, France, Germany, Japan)

P2.12.03 Oxysterols modulate iNKT cell function
Cristhiane Favero de Aguiar, Emily Smith, Cathal Keane, Carrie Corkish, David Finlay (Ireland)

P2.12.04 Novel FFAR2 agonist prevents development of type 1 diabetes in C57BL/6 mice
Natalija Jonić1, Ivan Koprivica1, Dragica Mićanović1, Tamara Saksida1, Bojan Jevtic1, Graeme L. Fraser2, Dorde Miljkovic1, Ivana Stojanovic1 (Serbia, 2Belgium)

P2.12.05 Cobalt exposure enhances group 2 innate lymphoid cell apoptosis in vitro
Hsiang-Han Su, Chia-Chi Lin, Jau-Ling Suen (Taiwan)
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P2.12.06 High-dimensional single-cell analysis of human natural killer cell heterogeneity
Lucas Rebuffet1, Melsen Janine2, Escalière Bertrand1, Basurto Lozada Daniela3, Bhandoola Avinash4, Björkström Niklas5, Yenan Bryceson6, Roberta Castriconi6, Cichocki Franck4, Marco Colonna4, Davis Daniel M.3, Andreas Diefenbach7, Haniffa Muzlifah8, Horowitz Amir4, Lanier Lewis4, Malmberg Karl-Johan6, Miller Jeffrey4, Lorenzo Moretta6, Narni-Mancinelli Emilie1, Luke O’Neill9, Chiara Romagnani2, Dylan Ryan2, Simona Sivori6, Vagne Constance1, Vivier Eric1 (France, 2Netherlands, 3United Kingdom, 4USA, 5Sweden, 6Italy, 7Germany, 8Norway, 9Ireland)

P2.12.07 Analysis of the mechanisms regulating ILC2 immune checkpoints expression and function in the tumor microenvironment
Cecilia Ciancaglini, Silvia Santopolo, Paola Vacca, Lorenzo Moretta, Linda Quatrini (Italy)

P2.12.09 Involvement of innate lymphocytes in the pathogenic mechanisms of colorectal cancer
Giusto Davide Badami, Miriana Fallo, Marianna Lo Pizzo, Marco Pio La Manna, Bartolo Tamburini, Nadia Caccamo, Francesco Dieli (Italy)

P2.12.10 PD-1: FABP5 mediated lipid metabolism regulates obese ILC2 functions
Hye Young Kim (South Korea)

P2.14 LYMPHOCYTE DIFFERENTIATION

P2.14.01 Role of the transcription factor Foxo1 in the differentiation of naïve CD4 T lymphocytes
Théo Level, Charlotte Guillou, Aurélie Durand, Léa Giraud, Nelly Bonilla, Cédric Auffray, Bruno Martin, Bruno Lucas (France)

P2.14.02 Preliminary results of the fluctuation of peripheral follicular t cells and their subsets in lupus nephritis
Eleni Moysidou1, Michalis Christodoulou1, Georgios Lioulios1, Vasiliki Nikolaidou1, Ailiki Xochelli1, Pantelis Sarafidis1, Eleni Frangou1,2, Asimina Fylaktou1, Maria Stangou1 (Greece, 2Cyprus)

P2.14.03 Data-independent acquisition mass spectrometry reveals the protein andscape of human regulatory T-cells
Kedar Batkulwar, Tanja Buchacher, Ilona Arnkil, Syed Bilal Andrabi, Robert Moulder, Omid Rasool, Riitta Lahesmaa (Finland)

P2.14.04 Aryl hydrocarbon receptor signalling contributes to the enhanced ability of human gut-topic T-cells to acquire a Trm phenotype
Joshua McGuire, Beverley Rodger, Harjod Singh Assi, James Lindsay, Andrew Stagg (United Kingdom)
POSTER SESSION 2

P2.14.05  In-depth characterization of human induced regulatory T cells by mass cytometry
          Roosa Kattelus, Inna Starzkaia, Markus Lindén, Sami Pietilä, Tomi Suomi, Laura Elo,
          Riitta Lahesmaa, Tanja Buchacher (Finland)

P2.14.06  Unraveling the contribution of B cells on the differentiation of specific CD4+ T cells
          using a novel MHC class II multimer platform
          Christine Kreher, Daniela di Blasi, Dorina Roem-Haagsma, Britt Windhouwer,
          Veronique Konijn, Gerard van Mierlo, Laura Kummer, Koos van Dam, Eileen Stalman,
          Joep Killestein, Luuk Wieske, Taco Kuijpers, Filip Eftimov, Zoé L.E. van Kempen,
          Theo Rispens, Marieke van Ham, Anja ten Brinke (Netherlands)

P2.14.07  Thymic cell competition relies on efficient bone marrow contribution to prevent T cell
          acute lymphoblastic leukemia
          Rafael Paiva, Bruna Sabino Oliveira, Sara Azenha, Vera Martins (Portugal)

P2.14.08  DNA methylation profiles guide development and differentiation in T cells in the thymus
          and in the periphery, but epigenetic recoding of proliferation only occurs after full
          maturation
          Frederik Hamm, Dania Hamo, Marcel Finke, Mingxing Yang, Cornelia Peitsch, Anne
          Schulze, Julia K. Polansky (Germany)

P2.14.09  T cell-intrinsic PKD3 fine-tunes the development into CD8+ central memory T cells
          Jiří Koutník1, Grzegorz Sumara2, Michael Leitges3, Gottfried Baier1, Kerstin
          Siegmund1 (Austria, 2Poland, 3Canada)

P2.14.10  Mixed phenotype acute leukemia: a case report
          Beatriz Fernandez Perea, Maria del Carmen Barrera Aguilera, Juan Francisco
          Gutiérrez-Bautista, Lucía Ballesta Alcaraz, Ana Marin, Mónica Bernal, Jose Ramón
          Vilchez, Pilar Jimenez (Spain)

P2.14.11  Bringing your conventional flow cytometer to the spectral dimension: 88-channel
          detection system in a CytoFLEX LX flow cytometer
          Andrews Kelly1, Zhang Qianjun2, Mendez Solis Omayra1, Popovic Milan1, Zhao
          Marcus1, Han Ellison1, Ren Josen1, Huang Leon1, Anis Larbi2, Tung James1 (USA,
          2France)

P2.14.12  Starbright dyes - Simplifying flow cytometry with 8-color no compensation panels
          Sharon Sanderson1, Michael Blundell1, Magda Santos2, Srikanth Perike2, Elizabeth
          Dreskin2, Tracey Long2 (United Kingdom, 2USA)
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P2.15 LYMPHOID LINEAGE

P2.15.01 The role of toll-like receptor agonists in modulating thymocyte development in fetal thymus organ culture
Elise Helena Armulik, Artur Stoljar, Uku Haljasorg, Pärt Peterson, Martti Laan (Estonia)

P2.15.02 Urinary immune cells in ANCA-associated vasculitis: a marker of disease relapse?
Arlena Carney, Conor Finlay, Mark Little, Amrita Dwivedi (Ireland)

P2.15.03 Vacuolated lymphocytes in pleomorphic mantle cell lymphoma, case report
Alberto Gallardo García, Jorge Mannelli, Daniel García-Cuesta, María Paz Garrastazul-Sánchez, Raquel de la Varga-Martínez (Spain)

P2.16 MAINTENANCE AND LOCAL REGULATION OF TISSUE SPECIFIC IMMUNITY

P2.16.01 The impact of T-cell responses on vascular inflammation and thrombosis
Reiner Mailer (Germany)

P2.16.02 Red complex pathobionts on osteoclast-like cell maturation
Arzu Beklen¹, Muhammed Allippara¹, Katariina Nurmi¹, Pirkko Pussinen¹, Mari Äinola, Kari K. Eklund¹ (Finland, ²Turkey)

P2.16.03 CD8 regulatory T cells inhibit antigen-specific CD4 T cell responses during respiratory infection with Bordetella pertussis
Caroline Sutton, Caitlin Ní Chasaide, Kingston Mills (Ireland)

P2.16.04 Deficiency of the Interleukin-36 Receptor Antagonist (DITRA) disrupts dermal immune homeostasis predisposing to severe psoriatic disease
Paloma Narros Fernandez, Shrikanth Chomanahalli Basavarajappa, Heather Loughnane, Larissa Bless, Yasmina Hernandez Santana, Patrick T. Walsh (Ireland)

P2.16.05 Ectopic lung germinal centres support functional affinity maturation despite their disordered structure
Stephane Guillaume, William Foster, Michelle Linterman, Alice Denton (United Kingdom)

P2.16.06 The HLA-G levels of cord blood- and wharton’s jelly-derived mesenchymal stem cells from early to late passages
Sule Karataş, Ayse Erol Bozkurt, Figen Abatay Sel, Medika Süleymanoğlu, Beril Yaşşa, Hayriye Şentürk Çiftçi, Fatma Savran Oğuz (Turkey)

P2.16.07 Investigating the mechanism of human peripheral helper T cells (Tph) generation
Linh-Huyên Truong, Rachel Anscombe, Feng Liu, Liye Chen (United Kingdom)

P2.16.08 Tissue-specific immunity in the human fetus by γδ T cells
Guillem Sanchez Sanchez, Isoline Verdebout², Yohannes Tafesse, Moosa Rezwani, Céline La, Panagiotis Vitsos, Aurélie Detavernier, Stanislas Goriely, Maria Papadopoulou, David Vermijlen (Belgium)
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P2.16.09 Identification of cellular and molecular biomarkers defining end-stage lung parenchyma and lung-draining lymph nodes
Evgeny Chichelnitskiy, Kapellos Theodore S., Kerstin Beushausen, Jana Keil, Ius Fabio, Bettina Wiegmann, Kevin Bassler, Danny Jonigk, Joachim L. Schultz, Christine Falk (Germany)

P2.16.10 Tissue-specific imprinting shapes conventional dendritic cell functionality in tumors and non-malignant tissues
Anna Celant, Giulia Pritti, Giuseppe Rocca, Francesco Andreata, Giulia Stucchi, Alessia Donato, Marco Galli, Ilaria Fontana, Stefano Cozzi, Laura Marongiu, Metello Enzo Innocenti, Francesca Granucci (Italy)

P2.16.12 PD-1 pathway in rheumatoid arthritis: applying the brakes on synovial inflammation
Hannah Costello, Aoife O'Rourke, Carl Orr, Douglas Veale, Ursula Fearon, Mary Canavan (Ireland)

P2.16.13 Inflammatory CD1c+ CD163+ dendritic cells are enriched in the inflamed joint and contribute to rheumatoid arthritis pathology
Hannah Costello, Aoife O'Rourke, Carl Orr, Douglas Veale, Ursula Fearon, Mary Canavan (Ireland)

P2.16.14 The role of immunological memory in synovial inflammation in rheumatoid arthritis
Aoife O'Rourke, Rebecca Stokell, Hannah Costello, Carl Orr, Douglas Veale, Ursula Fearon, Mary Canavan (Ireland)

P2.16.15 PD-L1-expressing eosinophil-mediated regulation of immunity and pulmonary inflammation
Daniel Ivers1, Alexander Lawrence1, Heike Hawerkamp1, Vincent Kelly1, Conor Finlay1, Christian Schwartz2, Padraic Fallon1 (Ireland, Germany)

P2.16.16 Unveiling the significance of cross-reactive bone marrow resident memory T cells in immune responses: Insights from SARS-CoV-2 and vaccination
Jinchan Li1, Simon Reinke1, Yu Shen1, Zixu Wang1, Carsten Perka1, Hardt Sebastian1, Christian Hipfl1, Tobias Alexander1, Hyun-Dong Chang1, Helena Radbruch1, Zhihai Qin2, Andreas Radbruch1, Jun Dong1 (Germany, China)

P2.16.17 Abnormalities of skeletal muscle regeneration and macrophage polarization in Nakajo-Nishimura syndrome
Naoya Kase, Akira Niwa, Nobuo Kanazawa, Megumu Saito (Japan)

P2.16.18 Marine sulphated polysaccharides stimulate innate immunity to fight infection in a model of post-traumatic immunosuppression
Maëva Guillonneau1, Marwan Bouras1, Alexander Kettnner2, Marion Davieau1, Mélanie Petrier1, Cynthia Fourgeux1, Cédric Jacqueline1, Antoine Roquilly1, Karim Asehnoune1, Pierre Rocheteau1,2 (France, Switzerland)

P2.16.19 Signaling pathways and differentially expressed genes associated with placental pathology in antiphospholipid syndrome
Anush Martirosyan1, Susanna Ghonyan1, Eva Kriegova2, Anna Petrackova2, Jakub Savara2, Gayane Manukyan1 (Armenia, Czech Republic)

P2.16.20 Mast cells and their adipokine receptors: a role of specific ligands in expression shift
Paulina Żelechowska, Magdalena Wiktorska, Elżbieta Kozłowska, Justyna Agier (Poland)
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P2.16.21 Uterine natural killer cells in women with recurrent pregnancy loss and implantation failure
Nilgun Akdeniz, Burcin Karamustafaoglu Balci, Esin Cetin Aktas, Vuslat Yilmaz, Abdullah Yilmaz, Cemil Akgul, Gunnur Deniz (Turkey)

P2.16.22 Characterization of the immune cell signature in pulmonary hypertension associated with chronic lung diseases
Bernhard Reiter, Katharina Jandl, Ayu Hutami Syarif, Sophia Auner, Konrad Hoetzeenecker, Grazyna Kwapiszewska, Leigh M. Marsh (Austria)

P2.16.23 The Jak inhibitor filgotinib concentration-dependently suppresses immune responses in precision cut intestinal tissue slices ex vivo
Klaudia Maria Grier, Valerie Beneke, Vanessa Neuhae, Susann Dehmel, Ulf Kulik, Benjamin Gundert, Heiko Aselmann, Christina Hesse, Armin Braun, Katherina Sewald (Germany)

P2.16.24 Compartmentalized immune response in sepsis
Stavroula Litsiou, Stephan Culemann, Claudia Waskow (Germany)

P2.16.25 Association of autoantibodies with pregnancy outcomes
Christina Tsigalou, Elisabeth Stavropoulou, Konstantinos Nikoletto, Alexandros Karvelas, Theocharis Konstantinidis, Grigoris Trypsiannis, Nikolaos Nikolettos, Panagiotis Tsikouras (Greece)

P2.16.26 Ointment in the flies: augmentation and synergy of host defense peptide against AMR bacteria in epithelial and systemic infection
Patrick Lennard¹, Pieter Hiemstra², Julia Dorin¹, Peter Nibbering² (¹United Kingdom, ²Netherlands)

P2.16.27 Functional dichotomy of murine developmental Foxp3+ treg cell subsets in adipose tissue inflammation and homeostasis
Acelya Yilmazer, Anne Eugster, Marie Boernert, Andreas Petzold, Karsten Kretschmer (Germany)

P2.16.28 In vitro bovine endometrial epithelial cells synthesize a protective proteome in response to LPs and LTA ligands
Ronan Whiston¹, Aspinas Chapwanya¹, Kieran Meade², Paolo Nanni³, Andre Almeida², Isabel Wright¹, Mounir Adnan² (¹Basseterre, ²Ireland, ³Switzerland, ²Portugal, ³Algeria)

P2.16.29 Multi-OMICS signature of human tissue regulatory T cells
Clara Creter-Rodeschini, Aness Haddouche, Jehanne Hassan, Jebrane Bouaoud, Baptiste Fouquet, Mustapha Cherali, Minaine Bouabdallah, Christophe Tresallet, Chloé Bertolus, Emmanuel Martinod, Guy Gorochov, Makoto Miyara (France)

P2.17 MANIPULATION OF TOLERANCE

P2.17.02 Exploring red blood cells as a novel tolerogenic approach for factor VIII inhibitors employing immuno-dominant FVIII derived peptides presented on MHC class II
Mariarosaria Miranda¹, Eelke Brandsma¹, Paul Kaijen¹, Floris Van Alphen¹, Robin Van Bruggen¹, Karin Fijnvandraat¹, Sebastien Lacroix-Desmazes², Jan Voorberg¹ (¹Netherlands, ²France)
P2.17.03  Impact of commonly used immunosuppressants on Treg phenotype and function  
Daniel Acevedo, Joaquim Coloma, Yiyi Luo, Alexandru Vlagea, Ana Esteve-Solé, Laia Alsina  
(Spain)

P2.17.04  In situ reprogramming of dendritic cells for immunomodulation of FoxP3+ regulatory T cells  
Elisa Blickberndt, Ari Waisman  
(Germany)

P2.17.05  Induction of neonatal Fc receptor-mediated tolerance to therapeutic factor VIII in Hemophilia A  
Alejandra Reyes-Ruiz¹, Sandrine Delignat¹, Victoria Daventure¹, Aishwarya Bhale²,  
Krishnan Venkataraman², Jordan D. Dimitrov¹, Sebastien Lacroix-Desmazes¹  
¹(France, ²India)

P2.17.06  Getting dynamic insights into the regulation of autoreactive germinal centers using serial intravital microscopy  
Layla Pohl¹, Thomas R. Wittenborn¹, Cecilia Fahliquist-Hagert¹, Lisbeth Jensen¹,  
Ali Shahrokhtash¹, Donato Sardella¹, Alain Pulfer², Kristian Savstrup Kastberg¹,  
Duncan Sutherland¹, Santiago F. Gonzalez², Ina Maria Schiessli¹, Søren Egedal Døgn¹  
¹(Denmark, ²Switzerland)

P2.17.07  Central tolerance mechanisms in a CNS1/- rat model  
Artur Stoljar, Martti Laan, Pärt Peterson  
(Estonia)

P2.17.08  The role of thymic B cells in central T cell tolerance  
João Augusto Freitas, Dario Zebcevic, Christine Federle, Nadia Khouja, Amina Sayed, Ludger Klein, Illiana Siamishi  
(Germany)

P2.17.09  Calorie restriction as a novel therapeutic tool to modulate immune system during multiple sclerosis  
Alessandra Colamatteo, Fortunata Carbone, Clorinda Fusco, Teresa Micillo,  
Alice Verdiani, Benedetta Matarese, Claudia Imapratto, Federica Isé, Gianmarco Abbadessa,  
Elisabetta Signoriello, Giacomo Lus, Giorgia Maniscalco, Diego Centonze, Marco Salvetti, Roberta Lanzillo, Vincenzo Brescia Morra, Giovanna Borsellino, Luca Battistini, Giuseppe Matarese  
(Italy)

P2.17.10  Impact of CCR4 ligands on Treg cells in islet autoimmunity  
Gianmarco Spata, Linda Hammann, David Anz, Carolin Daniel, Isabelle Serr  
(Germany)

P2.17.11  Isolation and characterization of human leukocyte antigen (HLA) class I-naturally presented peptides from synovial fluid and tissue of patients with rheumatoid arthritis  
Juan Aguillon¹, Bárbara Pesce¹, Lilian Soto¹, Oscar Neira¹, Carolina Cuellar¹, Daniela Schneider¹, Miqueas Jaime¹, Montserrat Carrascal², Diego Catalán¹, Jaxaira Maggi²  
¹(Chile, ²Spain)

P2.18 MECHANISMS OF ATOPIC DISEASE

P2.18.01  Peripheral mast cell-derived RANKL is a prerequisite for lymphocyte egress from distant lymph nodes  
Katsoulis-Dimitriou Konstantinos, Anne Dudeck  
(Germany)
POSTER SESSION 2

P2.18.02 Integration of LC-MS/MS, network analysis, and cheminformatics to uncover bioactive components of propolis for atopic dermatitis treatment

**Eun Heo, Ye Ryeong Cho, Sanguine Byun, Ji Yeon Kim, Kyeong Ah Jo** (South Korea)

P2.18.03 Longitudinal colonization trajectories reveal differences in early life LPS exposure and IgE sensitization

**Aron Arzoomand¹, Tianai Lou², Rikard Forlin¹, Aman Mebrahtu², Jun Wang¹, Lakshmikanth Tadepally¹,², Hugo Barcenilla¹, Laura Gonzalez¹, Anette Johnsson¹, Yang Chen¹, Anna James¹, Jaromir Mikes¹, Petter Brodin¹,²** (Sweden, United Kingdom)

P2.19 MICROBIOТА

P2.19.02 Impact of microbiota from preterm infants on the immune system and infection susceptibility

**Justine Smout, Diego Ortiz, Mangge Zou, Till-Robin Lesker, Dorothee Viemann, Till Strowig, Jochen Huehn** (Germany)

P2.19.03 Host glycosylation shapes intestinal microbiome and immune response in inflammatory bowel disease

**Cláudia Rodrigues¹, Joana Gaifem¹, Márcia S. Pereira¹, Maria Francisca Alves¹, Mariana Silva¹, Nuno Padrão¹, Inês Alves, Aonghus Lavelle², Harry Sokol², Salomé S. Pinho¹** (Portugal, France)

P2.19.04 The microbiome-spine axis: exploring pathology, autoimmunity, and research gaps through a narrative review

**Muaz Rashid, Hugo Serra Pereira, Salman Keraidi, Nicolas Wipf, Ahmad Issa Alissa, Aubrie Sowa, Jake McDonnell, Stacey Darwish, Joseph Butler** (Ireland)

P2.19.05 Involvement of gut and oral microbiome in the development of allergy to non-specific lipid transfer proteins

**Paula Álvarez Romero, Laura Carrero, Ana Navas, Nadine Blanco Toledano, Berta Ruiz León, Aurora Jurado Roger** (Spain)

P2.19.06 Immunometabolic state in a porcine model after supplementation of the mixture of lactobacilli isolated from human milk


P2.19.08 Intestinal-derived short chain fatty acid modulates alveolar macrophage response to Streptococcus pneumoniae

**Kate Roche¹, Craig McEntee¹, Suzanne Cloonan¹, Susan Carpenter², Analía Rial³, Jose A. Chabalgoity², Ed Lavelle¹, Natalia Muñoz-Wolf¹** (Ireland, USA, Uruguay)
POSTER SESSION 2

P2.19.09 Butyric acid-producing *Faecalimonas* sp. NGB245 strain attenuates the symptoms of experimental autoimmune encephalomyelitis
Jelena Đokić, Aleksandar Bisenić, Sergej Tomić, Marina Bekić, Luka Pavlović, Miroslav Đinić, Amarela Terzić-Vidojević, Dušan Radiović, Svetlana Soković Bajić, Hristina Mitrović, Stefan Jakovljević, Nevena Vukotić Todorović, Nataša Golić (Serbia)

P2.19.11 Examining the role of the microbiome-immune axis in the development of systemic lupus erythematosus
Johannes Skræp1, Thomas R. Wittenborn1, Cecilia Fahliquist-Hagert1, Julia K. Demtröder1, Lisbeth Jensen1, Gudrun Winther1, Janne K. Klitgaard1, Miriam Rabenow2, Diego Ortiz2, Till-Robin Lesker2, Till Strowig2, Holger Brüggermann1, Søren Egedal Degn1 (Denmark, Germany)

P2.19.12 Gut bacteriome in mothers with and without gestational diabetes and their offspring: immunological parallels
Kristi Alnek1, Aili Tagoma1, Anu Bärenson1, Oliver Aasmets1, Helis Janson1, Ondrej Cinek2, Elin Org1, Raivo Ulbo1 (Estonia, Czech Republic)

P2.19.13 Gut microbiota-modulated immunological profile in mouse models of eating disorders
Radka Roubalova, Petra Prochazkova, Janet Jezkova, Hana Papežová (Czech Republic)

P2.19.14 Influence of the microbiome on dendritic cell phenotype and function
Willemien Miller, Alexandra Kazanova, Christina Gavino, Morgane Brouillard-Galipeau, Samantha Gruenheid (Canada)

P2.19.15 PD-L1 exaggerates obesity-induced dysbiosis
Viviane Schmidt1, Roman Gerlach1, Padraic Fallon2, Christian Schwartz1 (Germany, Ireland)

P2.19.16 Mechanisms of action of microbial-derived indoles on inflammation parameters in rheumatoid arthritis
Leona Ehnes, Carolin Brandl, Stefan Wirtz, Arne Gessner, Isabel Wank, Andreas Hess, Georg Schett, Mario Zaiss (Germany)

P2.19.17 Gut microbiota protects mice from acute colitis by improving intestinal barrier function
Michal Kraus, Zuzana Jacková, Eliška Krčmářová, Tomáš Thon, Lenka Sůkeníková, Jiri Hrdy, Milošlav Kverka (Czech Republic)

P2.19.18 The microbiota-derived metabolite TDCA may contribute to the pathogenesis of pediatric celiac disease
Kristina Kelley1, Khyati Girdhar1, Genesis Soto1, Michelle Zhang1, Nicole Koutun1, Vladimir Tolstikov1, Michael Kiebish1, Johnny Ludvigsson2, Emrah Altindis1 (USA, Sweden)

P2.19.19 Clostridium sporogenes-derived metabolites protect mice from colitis
Felix Krause, Kira Mangold, Rossana Romero, Maik Luu, Ulrich Steinhoff, Burkhard Schütz, Alexander Visekruna (Germany)

P2.19.20 The gut microbiome’s hidden role in pediatric type 1 diabetes: uncovering critical links
Gratiela Gradisteanu, Amalia Arhire, Luminita Marutescu, Carmen Chifiriuc (Romania)
P2.20 MOLECULAR MECHANISMS IN INNATE IMMUNOLOGY

P2.20.01 GBP2 engages galectin-9 for immunity against *Toxoplasma gondii*
Daniel Degrandi, Elisabeth Kravets, Veronica Raba, Imke Bradtmöller, Klaus Pfeffer (Germany)

P2.20.02 Stimulation of natural killer cell responses by different activating ligands
Luca Kröll, Mina Sandusky, Maren Claus, Sabine Wingert, Michèle Saretzki, Carsten Watzl (Germany)

P2.20.03 Potent induction of trained immunity by Saccharomyces cerevisiae b-glucans
Patricia Vuscan, Breda Kischkel, María Tintoré (Spain)

P2.20.04 Hyper-glycolytic monocytes in obesity have an increased oxidative stress and IL-8 response
Janina Berg, Veselina Radusheva, Isabel Karkossa, Martin von Bergen, Matthias Blüher, Kristin Schubert, Manuela Rosso (Germany)

P2.20.05 Functional characterization of guanylate binding proteins in the host defense against chlamydia and toxoplasma infection
Veronica Raba, Katja Mölleken, Johannes Hegemann, Daniel Degrandi, Klaus Pfeffer (Germany)

P2.20.06 Localization of phosphatidylserine binding site in the globular domains of C1q
Alexandra Kapogianni, Gabriela Radulova, Ginka Cholakova, Stoyan Iliev, Anela Ivanova, Vanya Bogoeva, Ivanka Tsacheva (Bulgaria)

P2.20.07 Innate immune sensing of self-RNA by RIG-I-like receptors
Felix Bender¹, Katharina I. Maser¹, Gunther Hartmann¹, Thomas Zilliger¹² (Germany, Denmark)

P2.20.08 Profiling the circulating pathogen-associated molecular patterns and damage-associated molecular patterns in patients with end-stage liver disease
Omar Abdelrahman, Mark Robinson (Ireland)

P2.20.09 Exploring monocyte activation, migration, and terminal differentiation in inflammatory arthritis
Niamh O'Dowd, Seán Dixon, Dumitru Anton, Sonia Sundanum, Carl Orr, Douglas Veale, Ursula Fearon, Viviana Marzaioli (Ireland)

P2.20.11 The tuberculosis plasma milieu induces signatures of inflammation, neutrophil recruitment, and interleukin-10 family-mediated immunomodulation in monocytes
Hubert Senanu Ahor¹, Monika M. Vivekanandan¹, Difrey Minadzi², Isaac Acheampong², Wilfred Aniagyei¹, Augustine Yeboah², Millicent Lamptey², Dorcas Owusu², Ernest Adankwah², Julia Seyfarth¹, Richard O. Phillips¹, Marc Jacobsen¹ (Germany, Ghana)

P2.20.12 Dissecting structure and function of the macrophage testraspan MS4A4A
Alessia Troilo, Jiazhi Lin, Riccardo Albanesi, Raffaello Viganò, Eleonora Capezzali, Viviana Valeri, Francesca Brambilla, Pierluigi Mairi, Dario Di Silvestre, Luca Mollica, Benedetta Savino, Carlo Pucillo, Massimo Locati, Elena Monica Borroni (Italy)
P2.20.13 Using *Drosophila melanogaster* (fruit fly) to investigate the role of two novel immune-induced peptides, IBIN and IBIN-like
Matthew Maasdorp¹, Susanna Valanne¹, Laura Vesala¹, Petra Aaltonen¹, Aino Malin¹, Tiina Salminen¹, Dan Hultmark², Mika Rämet¹ (¹Finland, ²Sweden)

P2.20.14 Investigating the molecular mechanism of tumor necrosis factor-related apoptosis-inducing ligand-induced macrophage polarization: transcriptomic analysis of key signaling molecules
Serhat Songoren, Sinem Gunalp, Ahmet Bursali, Gökhan Karakülal, Duygu Sag (Turkey)

P2.20.15 Viral envelope protein fragments can modulate innate immune cell signaling via formylpeptide receptors
Heiko Heilmann, Lukas Busch, Celine Buchmann, Islam Mohamed, Adrian Theiß, Stefan Lohse, Bernd Bufe (Germany)

P2.20.16 Itaconate drives mtRNA-mediated Type I interferon production via inhibition of succinate dehydrogenase

P2.20.17 The multifaceted role of lactoferrin in Covid-19
Vladimir Leksa (Slovakia)

P2.20.18 SHP1 knockdown enhances Toll-like Receptor 7 (TLR7) signalling in the plasmacytoid dendritic cell line CAL-1.
Sarah Harkin, Adam Dignam, Marion Butler (Ireland)

P2.20.19 Enhanced complement activation and MAC formation accelerates to severe COVID-19
Xuebin Qin, Calder R. Ellsworth, Shumei Liu (USA)

P2.20.20 Characterisation NKG2C NK cell receptor and genotypes in relation to human cytomegalovirus infection
Suruthimitra Okpoluaefe, Rafeezul Mohamed, Norfarazieda Hassan (Malaysia)

P2.20.21 The complex role of the human RNA helicase DDX3X during viral infections
Cathal Ryan¹, Dimitrios Anastasakis², Ahsan Polash², James Carolan¹, Markus Hafner², Martina Schröder¹ (¹Ireland, ²USA)

P2.20.22 Type I interferon regulates interleukin-1β and interleukin-18 production and secretion in human macrophages
Rodrigo Diaz¹, Gillian Rice¹, Diego San Felipe¹,², Tamar Pepanashvili¹, Paul Kasher¹, Tracy Briggs¹, Gloria Lopez-Castejon¹ (¹United Kingdom, ²Spain)

P2.20.23 NKG7 control cytolytic granule maturation and granzyme B levels in NK cells
Yunjie Wu¹, Miriam Aarsund¹, Susanna Ng², Tuula Anneli Nyman¹, Marit Inngjerdingen¹ (¹Norway, ²Germany)

P2.20.24 Ins and outs of autophagy in measles virus infection
Mathias Faure (France)

P2.20.25 Glutamine metabolism is essential for cytokine-induced natural killer cell training and enhanced effector function
Gearóid Conlon, David Finlay, Clair Gardiner, Aisling Dunne (Ireland)
### POSTER SESSION 2

**P2.20.26** Relation structure/function of Bordetella lipopolysaccharides (LPS): affinity of LPS to TLR4 complex receptor and cell activation  
**Marwan Khenissi, Wei Wei Zhang-Sun, Wahib Mahana** *(France)*

**P2.20.27** Metabolic reprogramming of macrophages by PKM2 promotes IL-10 production via adenosine  
**Eva Palsson-McDermott¹, Juliana Toller-Kawahisa¹, Luke O’Neill¹, Jose C. Alves-Filho² (¹Ireland, ²Brazil)*

**P2.20.28** SLC25a39 and SLC25a40 in macrophages  
**Maureen Yin** *(Ireland)*

**P2.20.29** The caspase-activated DNase induces a DNA-damage response to drive innate immunity  

**P2.20.30** Optimizing the IMQ model: deep characterization of the human TLR7 response for early drug development  
**Juliette van den Noort, Salma Assil, Micha Ronner, Michelle Osse, Yalcin Yavuz, Jeffrey Damman, Erik Lubberts, Robert Rissmann, Tessa Niemeyer-van der Kolk, Ingrid Tomljanovic, Manon Jansen, Matthijs Moerland** *(Netherlands)*

### P2.21 MUCOSAL IMMUNITY

**P2.21.01** Initial sensing of segmented filamentous bacteria and subsequent induction of Th17 responses first occur in Peyer’s patches by privileged monocyte-derived phagocytes  
**Renan Oliveira Corrêa, Marie Cherrier, Nadine Cerf-Bensussan, Hugues Lelouard, Valérie Gaboriau-Routhiau** *(France)*

**P2.21.02** Role of type III interferons on intestinal tissue restitution  
**Julien Mambu¹, Kauityla K. Jena², Daniel Boehmer², Benedetta Sposito², Virginie Millet³, Lionel Spinelli³, Sarah Wurbel³, Chloé Riquier³, Franck Galland³, Philippe Naquet³, Vanessa Mitsialis², Katlynn Bugda Gwilt², Jay R. Thiagarajah², Katherine A. Fitzgerald², Scott B. Snapper², Achille Broggi³, Ivan Zanoni² (¹France, ²USA)*

**P2.21.03** Modulating A-type lamins in immune and stromal cells for therapy in inflammatory bowel disease  
**Raquel Gomez-Bris, Beatriz Herrero-Fernandez, Marina Ortega-Zapero, Marta Amoros-Perez, Alberto del Monte, Vicente Andres, Gabriel Criado, Alicia Usategui, Jose Luis Pablos, Angela Saez, Jose M. Gonzalez-Granado** *(Spain)*

**P2.21.05** Effects of gluten consumption on the transcriptomic landscape of dermatitis herpetiformis  
**Helka Kaunisto, Eski Kemppainen, Teea Salmi, Päivi Saavalainen, Katarzyna Leskinen, Heli Pessa, Rebecka Venti-Holmberg, Kaisa Hervonen, Tuire Ilus, Katri Kaukinen, Katri Lindfors** *(Finland)*
POSTER SESSION 2

P2.21.06 Allergen-displaying extracellular vesicles of probiotic Escherichia coli strain O83:K24:H31 for mucosal tolerance induction in allergy
Viktor Černý1,2, Eliška Krčmářová1, Stefan Heinl2, Michael Thaler2, Anna Schmid2, Agnieszka Razim2, Jiri Hrdy1, Aleksandra Inic-Kanada2, Ursula Wiedermann2, Irma Schabussova2 (1Czech Republic, 2Austria)

P2.21.07 Mapping of the duodenal mucosal microenvironment in irritable bowel syndrome with imaging mass cytometry
Aina van der Meeren, Silke Appel, Gülen Arslan Lied, Trygve Hausken, Kurt Hanevik, Eline Margrete Randulf Hillestad, Elisabeth Steinsvik, Birgitte Berentsen, (Norway)

P2.21.08 Understanding the anti-inflammatory effects of extracts originating in traditional Taiwanese medicine against chronic gut inflammation
Kate Sheehan, Helen Sheridan, Sinéad Corr (Ireland)

P2.21.09 Intestinal TIGITnegCD38+ memory T cells proliferate, acquire an ex-Th17/Th1* pathogenic phenotype and drive inflammation in severe Crohn’s disease patients with poor outcome
Maud Heredia1, Danielle M.H. Barendregt1, Irma Tindemans1, Renz C.W. Klomberg1, Martine A. Aardoom1, Beatriz Calado1, Lea M.M. Costes1, M. (Linda) E. Joosse1, Danielle H. Hullemen-van Haaften1, Bastiaan Tuk1, Lisette A. van Berkel1, Polychronis Kemos2, Frank Ruemmele2, Nick Croft2, Johanna C. Escher1, Lissy de Ridder1, Janneke N. Samsom1 (1Netherlands, 1United Kingdom, 2France)

P2.21.10 Enthesitis-related arthritis can be distinguished from other juvenile-idiopathic arthritis subtypes by a serum biomarker for gut-barrier dysfunction
Persephone Jenkins1, Nora Pinar1, Thea Jakobi1, Ania Radziszewska1, Vicky Alexiou1, Claire Deakin2, Lucy R. Wedderburn1, Coziana Ciurtin1, Diana Matei1, Elizabeth Rosser1 (1United Kingdom, 2Australia)

P2.21.11 The protective effect of L. sakei CVL-001 against DSS-induced colitis through NOD2-dependent CD103 expression in dendritic cells
Dong-Yeon Kim, Jung Joo Hong, Jong-Hwan Park (South Korea)

P2.21.12 Scrutinizing prime-boost immunization approaches during early-life to enhance immunity against respiratory pathogens
Poorya Foroutan Pajoohian1, Audur Anna Aradottir Pind1, Jenny Lorena Molina Estupinan1, Thorunn Asta Olafsdottir1, Dennis Christensen2, Ingileif Jónsdóttir1, Stefania P. Bjarnarson1 (1Iceland, 2Denmark)

P2.21.13 Lung dendritic cell metabolism underlies susceptibility to viral infection in diabetes
Samuel Nobs (Israel)

P2.21.14 IL-23 tunes inflammatory functions of human MAIT cells
Laetitia Camard1, Tharshana Stephen1, Hanane Yahia1, Vincent Guillemot1, Sébastien Mella1, Victoire Baillet1, Hélène Lopez-Maestre1, Claire Leloup1, Julie Marsande1, Juan Sienes-Bailo1, Ambre Dangien1, Natalia Pietrosemoli1, Milena Hasan1, Anne Fourie1, Carrie Greving1, Barbara Joyce Shaihk1, Raphaelle Parker1, Daniel J. Cua2, Elisabetta Bianchi1, Lars Rogge1 (1France, 2USA)
P2.21.15 Parkinson’s disease-associated leucine-rich repeat kinase 2 polymorphism promotes neutrophil responses and enteric α–synuclein pathology during intestinal inflammation
Yuan-Kai Cheng, Hao-Sen Chiang (Taiwan)

P2.21.16 Optimization of NKTfh cell induction in vivo for improved vaccine protocols
Jihana Achour, Yavuz Mercan, Pumia Bhekiwe Manyatsi, Gerhard Wingender (Turkey)

P2.21.17 Alterations in serum IgG glycome are associated with Crohn’s disease development
Joana Gaifem, Cláudia Rodrigues1, Francesca Petralia2, Inês Alves, Eduarda Leite-Gomes1, Bruno Cavadas1, Ana M. Dias1, Catarina Moreira-Barbosa1, Joana Revésy, Renee M. Laird2, Mislav Novokmet2, Jerko Štambuk2, Siniša Habazin3, Berk Turhan2, Zeynep H. Gümüş2, Ryan Ungaro2, Joana Torres1, Gordan Lauc2, Jean-Frederic Colombel2, Chad K. Porter2, Salomé S Pinho1 (Portugal, USA, Croatia)

P2.21.18 Relationships between plasma immune protein profiles, extent of inflamed tissue, and density of intestinal infiltration reveal discrete disease courses amongst therapy-naïve ulcerative colitis patients
Beatriz Calado, Maud Heredia, Mohammed Charrout, Renz C.W. Klomberg, Danielle M.H. Barendregt, Danielle H. Hulleman-van Haaften, Bastiaan Tuk, Lisette A. van Berkel, Brenda Bley Folly, Johanna C. Escher, Lissy de Ridder, Janneke N. Samsom (Netherlands)

P2.21.19 Investigation of the role of Interleukin-11 (IL-11) in paediatric IBD patient non-responsiveness to therapeutic intervention
Debopriya Saha, Larissa Bless, Sarah Cooper, Anna Dominik, Seamus Hussey, Shrikanth Chomanahalli Basavarajappa, Patrick T. Walsh (Ireland)

P2.21.20 Deep immune phenotyping reveals endometrial immune modulation in women with endometriosis
Ana Kisovar, Christian M Becker, Ingrid Granne, Jennifer Southcombe (United Kingdom)

P2.21.21 The gut homing profile of B cells and T cells is altered in experimental models of arthritis
Vicky Alexiou, Persephone Jenkins, Diana Matei, Elizabeth Rosser (United Kingdom)

P2.21.22 Microbiota-related biomarkers in the serum of patients with DLBCL
Katarína Krempaská, Lucie Dlouha, Markéta Tenglerová, Johana Rehakova, Michaela Brichová, Kateřina Benešová, Miloslav Kverka, Jarmila Heissigerova, Petra Svozilkova, Štěpán Coufal, Iva Onděčková, Jana Senaová, Vaclav Herman, MAREK Trneny, Klára Kostovčíková (Czech Republic)

P2.21.23 Spatially resolved proteogenomic uncovers a sympathetically mediated link between colitis and salivary glands pathology
Gustavo Monasterio1, Francisca Castillo1, Joyce van de Ven1, Valentina Olmedo1, Ludvig Larsson1, Annika Frede2, Jennifer Fransson1, Dagmara Pietrzak1, Srustidhar Das1, Eduardo Villablanca1 (Sweden, United Kingdom)

P2.21.24 Intraepithelial lymphogram in the diagnosis of celiac disease in adult patients: a validation cohort
Rafael Rodriguez Ramos, Miren Garbiñe Roy Ariño, Ana De Andres Martin, Roberto Pariente Rodríguez, Laura Crespo Pérez, Ivan García De La Torre, Vivian Lizeth Stewart DelCid, Daniel Albert Mendoza Bravo, Elena Manterola Navarro, José Luis Veiga González, Carlota García-Hoz Jiménez (Spain)
POSTER SESSION 2

P2.21.25 Segment-specific regulation of intestinal motility by colitis and the adaptive immune system
Raquel Gomez-Bris, Pilar Rodriguez-Rodriguez, Marina Ortega-Zapero, Santiago Ruvira, Angela Saez, Silvia M. Arribas, Jose M Gonzalez-Granado (Spain)

P2.21.26 Vaccine induced memory CD8+ T cells efficiently prevent viral transmission from the respiratory tract
Jinglin Zhou¹, Ida Uddbäck¹, Jacob Kohlmeier², Jan Christensen¹, Allan Thomsen¹
¹(Denmark, ²USA)

P2.21.27 Finding their place: maintenance of tissue resident memory T cells in lung infections
Jean-Christophe Lone¹, Gonçalo Malpica¹, Lisa Dratva², Cristina Ferreira¹, Leandro Barros¹, Rui do Amaral Vieira¹, Catarina Mendes¹, Afonso Basto¹, Sarah Teichmann², Luís Graça, Marc Veldhoen¹
¹(Portugal, ²United Kingdom)

P2.21.28 Impact of murine allergic airway inflammation on plgR-mediated airway immunity and pneumococcal colonization
Alexander Pausder, Julia Boehme, Dunja Bruder (Germany)

P2.21.29 Cross-reactive T cells directed to commensal and food-derived yeasts drives cytotoxic TH1 cell responses in Crohn’s disease
Gabriela Rios-Martini, Ekaterina Tikhonova, Elisa Rosati, Laura Sievers, Florian Tran, Stefan Schreiber, Petra Bacher (Germany)

P2.21.30 Genetic and inflammatory factors regulate monocyte expression of the TGFβ-activating integrin αvβ8 in IBD
Daniel Brice, Sezin Günaltay-Schenk, Mike Burkitt, Mark Travis (United Kingdom)

P2.21.31 Isolation of single cells from human Peyer’s Patches obtained from biopsies
Adrian Huck, Inka Freise, Nadine Sommer, Carl Weidinger, Britta Siegmund, Rainer Glauben (Germany)

P2.21.32 Cigarette smoke-induced dysregulation of iron metabolism alters alveolar macrophage response to Streptococcus pneumoniae: implications for chronic obstructive pulmonary disease
Lynne Faherty¹, David Hearne¹, Patrick Mitchell¹, Shane O’Brien¹, Seamas Donnelly¹, Natalia Muñoz-Wolf¹, Claire Healy¹, Suzanne Cloonan¹,²
¹(Ireland, ²USA)

P2.21.33 Innate immunity changes predict progression of septic shock and perturb mucosal immunity in model of iPSC derived model of lung organoid
Marcela Hortova-Kohoutkova, Filip Kafka, Zuzana Tomášiková, Veronika Bosáková, Ioanna Papatheodorou, Martin Helán, Jan Frič (Czech Republic)

P2.21.34 Adaptive T cell-mediated immunity to gluten is elicited in the gut mucosa of type 1 diabetes patients only in presence of celiac disease comorbidity
Stefania Picascia, Ilaria Mottola, Serena Vitale, Alessandra Camarca, Martina Cesarano, Mariantonia Maglio, Renata Auricchio, Riccardo Troncone, Carmen Gianfrani (Italy)

P2.21.35 Nanoconjugates of lactoferrin for treatment of viral infection
Martyna Janicka, Marcin Chodkowski, Klaudia Bylnska, Katarzyna R anoszek-Soliwoda, Emilia Tomaszewicz, Grzegorz Celichowski, Jaroslaw Grobelny, Malgorzata Krzyzska (Poland)
**POSTER SESSION 2**

**P2.21.36** Role of the cholesterol metabolizing enzyme Cyp27a1 in intestinal regeneration and tumorigenesis  
**Xinxin Luo¹, Srustidhar Das¹, Sara Martina Parigi², Francisca Castillo¹, Eduardo Villablanca¹** (Sweden, ²USA)

**P2.21.37** Role of germinal center and CD39highCD73+ B cells in the age-related tonsillar involution  
**Rocio Pastor, Juliana Puyssegur, Bibiana Paoli, Fernando Chirdo, Eloisa Arana** (Argentina)

**P2.21.38** *Lactobacillus acidophilus* ameliorates inflammatory bone loss under estrogen-deficient conditions via enhancing “Gut resident Tregs”  
**Asha Bhardwaj, Leena Sapra, Rupesh Srivastava** (India)

**P2.21.39** Single cell transcriptomics reveal mast cell heterogeneity in the human gut  
**Hind Hussein, Elodie Modave, Samuel Van Remoortel, Marcello Delfini, Runze Quan, Nathalie Stakenborg, Guy Boeckxstaens** (Belgium)

**P2.21.40** Evaluation of novel adjuvants in a nasal vaccination strategy against SARS-CoV-2  
**Liam Murray, Dorian Dederko, Ed Lavelle** (Ireland)

**P2.22 MYELOID LINEAGE**

**P2.22.01** Targeting skin-resident antigen presenting cells to activate skin-resident CD4+ memory T cells during *Staphylococcus aureus* Vaccination  
**Megan Smith¹, Jonah Clegg¹, Giovanni Cova², Alberto Carignano², Emiliano Chiarot³, Simona Tavarini³, Chiara Sammicheli³, Bruna Clemente³, Emilio Siena³, Monia Bardelli³, Michela Brazzoli³, Fabio Bagnoli³, Rachel McLoughlin¹, Elisabetta Soldaini²** (¹Ireland, ²Italy)

**P2.22.02** A novel myeloid cell population: embryonic tissue-resident neutrophils  
**Laura Lintukorpi, Julian Hofmann, Emmi Lokka, Sheyla Cisneros Montalvo, Venla Ojasalo, Marko Salmi, Pia Rantakari** (Finland)

**P2.22.03** Establishing the role of the V-ATPase-associated heme transporter HRG1 in regulating endolysosomal function and cellular heme-iron homeostasis  
**Neil O'Sullivan, Jean O’Keeffe, Ken Nally, Rosemary O’Connor** (Ireland)

**P2.22.05** Early precursor-derived pituitary macrophages, cells connecting the immune and endocrine systems  
**Henna Lehtonen¹, Heli Jokela¹, Julian Hofmann¹, Lauriina Tola¹, Arfa Mehmood¹, Florent Ginhoux²,³, Burkhard Becher⁴, Melanie Greuter⁴, Marko Salmi¹, Pia Rantakari¹** (¹Finland, ²China, ³Switzerland)

**P2.22.06** Assessing the maturation stages of PMN-MDSC to dissect the immunosuppressive mechanisms within TME  
**Maria Teresa Bilotta, Piera Filomena Fiore, Sergio Forcelloni, Lorenzo Moretta, Paola Vacca, Nicola Tumino** (Italy)
POSTER SESSION 2

P2.22.07 Mast cell-specific expression of non-functional cofilin-1 leads to a mast cell-deficient mouse model fully susceptible to imiquimod-induced psoriasis, 1-fluoro-2,4-dinitrobenzene-induced contact hypersensitivity, and vaccinia virus infection
Johanna Kramer, Nadine Kamenjarin, Sonja Moos, Cinthia Silva-Vilches, Günter Küblbeck, Katrin Hodapp, Beate Hilbert, Volodmyr Tsvilovsky, Marc Freichel, Hans Christian Probst, Florian Kurschus, Karsten Mahnke, Yvonne Samstag (Germany)

P2.22.08 Phenotypic and functional analysis of a novel macrophage population expressing a membrane-bound form of IL-18
Chiara Vitale1, Andrea Petretto1, Katia Cortese1, sonia carta1, Alessandra Dondero1, Chiara Lavello1, Davide Cangelosi1, Martina Morini1, Francesca Bellora1, Pietro Arnaldi1, Fabrizio Loiacono1, Santina Bruzzone1, Francesco Piacente1, Silvia Bruno1, Annamaria Pessino1, Serafina Mammitoli1, Alberto Garaventa1, Massimo Conte1, Massimo Locati1, Danilo Norata1, Vivier Eric2, Cristina Bottino1, Roberta Castriconi1 (Italy, France)

P2.22.09 Development and characterization of pro-inflammatory M1 macrophage-like cell models
Celine Buchmann, Gilles Gasparoni, Ann-Katrin Wentz, Heiko Heilmann, Jörn Walter, Julia Schulze-Hentrich, Bernd Bufe (Germany)

P2.22.10 Diagnosis of FISH negative acute promyelocytic leukemia due to molecular biology techniques and optical genome mapping
Lucía Ballesta Alcaraz, Mónica Bernal, Jose Ramón Vilchez, Maria del Carmen Barrera Aguilera, Juan Francisco Gutiérrez-Bautista, Beatriz Fernandez Perea, Pilar Jimenez (Spain)

P2.22.11 Investigation of the in vitro use of HL-60 cells induced at different maturation levels as myeloid-derived suppressor cell (MDSC)-like
Diğdem Yöyen Ermiş1, Didem Akköyney1, Batuhan Yaşıcıoğlu1, Pınar Karaşar1, Barbaros Oral1, Güneş Esendağlı1 (Turkey, Sweden)

P2.22.12 M2c-like macrophage associated immunomodulatory function on CD44/CD24 phenotype in triple negative breast cancer (TNBC) subgroups
Onur Etgu1, Salih Haldun Bal1, Fatmanur Dündar1, Batuhan Yaşıcıoğlu1, Elif Özlal1, Barbaros Oral1, Diğdem Yöyen Ermiş1 (Turkey, Budapest)

P2.22.13 Investigating the phenotypic heterogeneity in low-density neutrophils across patients with ANCA-vasculitis, cancer and bacterial sepsis
Amrita Dwivedi, Isabella Batten, Aisling Ul Mhaonaigh, Martin Barr, Sabina Mason, Éine Noppe, Yvelynne Kelly, Conor Finlay, Mark Little (Ireland)

P2.22.14 The immune receptor CD300e: a key player in obesity-associated metabolic dysregulation
Simone Pizzini, Sara Coletta, Sebastiano Brichese, Stefania Vassallo, Annica Barizza, Marina de Bernard (Italy)

P2.22.16 Immunophenotype of neutrophils in patients with inflammatory joint diseases and Mycobacterium tuberculosis infection
Marianna Lo Pizzo, Giusto Davide Badami, Bartolo Tamburini, Lidia La Barbera, Chiara Rizzo, Federica Camarda, Miriana Fallo, Marco Pio La Manna, Nadia Caccamo, Giuliana Guggino, Francesco Dieli (Italy)
POSTER SESSION 2

P2.22.17  CD14 isolation desensitizes peripheral blood monocytes
Britt Coenen, Petri de Jager, Pieter Grijpstra, Romana Schirhagl, Hjalmar Bouma,
Geert van den Bogaard (Netherlands)

P2.22.18  Zeb1 expression by cDC1s is crucial for maintenance of splenic cDC1s and macrophages
Bram Verstappe, Bieke Soen, Kathryn Waller, Bavo Vanneste, Liesbet Martens,
Tinne Thoné, Fleur Parmentier, Geert Berx, Charlotte Scott (Belgium)

P2.22.19  Metabolic crosstalk and epigenomic reprogramming of macrophages and colon cancer
Kristina Draganic1, Janette Pfneissl1, Christian de Jesus Cardona2, Xu Li1, Sabrina
Ladstätter1, Sergey Isaev1, Emine Atas1, Marcos Hocevar1, Luisa Grader1, Gabriele
Schweikert2,3, Angelika Unterhuber1, Cécile Philippe1, Christoph Bock1, Michael
Bergmann1, Igor Adameyko1, Gerda Egger1 (1Austria, 2Germany, 3United Kingdom)
P3.01 NEUROINFLAMMATION

P3.01.01 Clinical and electrophysiological findings of peripheral neuropathy and sensory fiber involvement in Sjögren’s syndrome
Hacer Erdem Tılkı, Furkan Erbaş (Turkey)

P3.01.02 Insights from a non-human primate study: understanding the fluid dynamics of neurovascular and immunological factors in the vulnerability of substantia nigra dopaminergic neurons
Tiziano Balzano, Natalia López-González del Rey, Noelia Esteban-García, Alejandro Reinares-Sebastián, José Angel Pineda-Pardo, Inés Trigo-Damas, José Angel Obeso, Javier Blesa (Spain)

P3.01.03 Peripheral natural killer cells profiling in progressive supranuclear palsy and Parkinson’s disease
Valentina Lopardo, Marina Serio, Maria Francesca Tepedino, Annibale Alessandro Puca, Paolo Barone, Marina Picillo, Elena Ciaglia (Italy)

P3.01.04 The role of transient receptor potential channel subfamily M member 7-kinase in a multiple sclerosis mouse model
Katharina Jacob1, Anna Thomann1, Christian Weber1, Thomas Gudermann1, Anneli Petes1, Susanna Zierler1,2 (Germany, Austria)

P3.01.06 Anti-Caspr2 autoantibodies and abnormal prostate specific antigen levels: a novel biomarker for prostate cancer?
Antonio Costa Anzola, Rocío Aguado Álvarez, Raquel Bernardo, Laura Carrero, Ana Navas, Aurora Jurado Roger (Spain)

P3.01.07 Mycophenolate mofetil for first-line treatment of anti-NMDA receptor encephalitis: a randomized clinical trial
Xue Gong, Kundian Guo, Xingjie Li, Yue Liu, Xiaolin Deng, Xueying Kong, Aiqing Li, Dong Zhou, Jingmei Li, Zhen Hong (China)

P3.01.08 Determining the relationship between NLRP3 inflammasome activation and mitophagy in a neuronal progenitor cell line derived Alzheimer’s disease model
Basak Aru, Nur Ekimci Górçan, Utku Ozbey, Ömer Faruk Bayrak, Gülderen Yanikkaya Demirel (Turkey)

P3.01.09 Differentiation between viral and autoimmune limbic encephalitis (D-VALE): a prospective multicentre cohort study with development and validation of diagnostic model
Xueying Kong, Kundian Guo, Xu Liu, Xiaolin Deng, Aiqing Li, Linjun Cai, Xue Gong, Xingjie Li, Ruixi Ye, Zhen Hong (China)

P3.01.10 Lipid-accumulating microglia in Alzheimer’s disease
Xiaoting Wu, Christiane Ruedel (Singapore)

P3.01.11 Comparison of immune response in different experimental models of retinal degeneration
Katerina Palacká, Barbora Hermankova, Eliska Javorkova, Vladimir Holan (Czech Republic)
POSTER SESSION 3

P3.01.12 NADPH oxidase (NOX2)-mediated regulation of microglial NLRP3 inflammasome activation in traumatic brain injury
Janeen Laabei1, Gloria Vegliante1, Nathan Ryzewski Strogulski1, Sahil Threja1, Carly Douglas1, Marie Hanscom1, Andrew Pearson1,2, Aurore Nkila1,2, Joseph Ojo1,2, David Loane1 (Ireland, 2USA)

P3.01.13 The secretome of human amniotic membrane-derived stromal cells inhibits immune cell migration into a pro-inflammatory miPSC-derived neurospheroid model
Alexandro Angelo Buffi1,2, Julia Di Stefano1, Yousra El Ouamari1, Pietro Romele2, Andrea Papait2, Dorien Verdoort1, Nathalie Coolsv, Elise Van Breedam1, Ornella Parolini1, Antonietta Silini2, Peter Ponsaerts1 (Belgium, Italy)

P3.01.14 Dietary manipulation to control immunological self-tolerance in experimental autoimmune encephalomyelitis
Claudia Russo, Giusy De Rosa, Claudia La Rocca, Vincenzo Di Marino, Fortunata Carbone, Claudio Proocaccini, Giuseppe Matarese (Italy)

P3.01.15 Uncovering the brain-homing nature of T cells at single-cell resolution in people with multiple sclerosis
Jasper Rip, Eric Bindels, Laurens Bogers, Ana Marques, Sanne Reijm, Kirsten Kuiper, Fabienne van Puijfelik, Annet Wierenga-Wolf, Marie-Jose Melief, Marvin van Luij, Joost Smolders (Netherlands)

P3.01.16 Loss of Bmal1 in myeloid cells accelerates age-related migration of immune cells to the outer retina
Eleanor Noone, Lucia Celkova, Kieva Byrne, Sarah Doyle (Ireland)

P3.01.17 Early-to-mid stage idiopathic Parkinson’s disease shows enhanced cytotoxicity and differentiation in CD8 T-cells in females
Christophe Capelle, Fanny Hedin, Lukas Pavelka, Antonio Cosma, Rejko Krüger, Markus Ollert, Feng Hefeng (Luxembourg)

P3.01.18 IL-34 empowers regulatory T cells with novel non-canonical function to safeguard brain barrier integrity in neuroinflammation
Janne Verreycken, Lien Van Hoecke, Lore Van Acker, Laura Amelinck, Junhua Xie, Jonas Castelein, Elien Van Wonterghem, Griet Van Imschoot, Marlies Burgelman, Sarah Vanherle, Ilse Dewachter, Paulien Baeten, Bieke Broux, Roosmarijn Vandenbroucke (Belgium)

P3.01.19 Neurotransmitter acetylcholine produced by CD4 T cells drive the differentiation of regulatory CD4 T cells during gut inflammation
Namrita Halder, Souparni Ghosh, Sourabh Yadav, Snigdha Dhali, Dharmendra Kumar, Girdhari Lal (India)

P3.01.20 Immune-related soluble factors associated with anti-LGI1 encephalitis
Guillermo Muñoz1, Mar Guasp1, Laura Naranjo1, Rocio Soledad Couso1, Mari Carmen Anton1, Maria Antonia Romero1, Amaia Muñoz Lopetegi1, Eugenia Martinez Hernandez1, Laia Prades1, Francesc Graus1, Josep Dalmau1,2, Raquel Ruiz García1 (Spain, USA)
P3.01.21 Investigation of brain inflammation in complete Freund’s’ adjuvant-free experimental autoimmune encephalomyelitis
Suzana Stanisavljević, Goran Stegnjaić, Bojan Jevtic, Milica Lazarević, Mirjana Dimitrijević, Miljana Momčilović, Neda Nikolovski, Dorde Miljkovic (Serbia)

P3.01.22 Porphyromonas gingivalis as an etiologic factor in neuroinflammation
Noemie Dudzinska¹, Marta Kaminska¹, Piotr Mydel¹² (¹Norway, ²Poland)

P3.01.23 Microbiota-induced intestinal Treg cells modulate neuroinflammation
Rebecca Jasser, Tommy Regen, Ari Waisman (Germany)

P3.01.24 The presence of anti-NMDA Receptor and anti-GABA-B autoantibodies in an elder patient with hallucinations
Antonio Costa Anzola, Rocío Aguado Álvarez, Antonio Trujillo, Sara Cantísán, Alba Rodríguez, Aurora Jurado Roger (Spain)

P3.01.25 Anti-MOG Antibody in a pediatric patient with autism spectrum disorder
Antonio Costa Anzola, Rocío Aguado Álvarez, Antonio Trujillo, Sara Cantísán, Juan Eduardo Molina Alcaide, Aurora Jurado Roger (Spain)

P3.01.26 Temporal analysis of the infiltration dynamics of pro-inflammatory cytokine producing innate and adaptive immune cells following experimental traumatic brain injury in mice
Sahil Threja, Nathan Ryzewski Strogulski, Janeen Laabei, Carly Douglas, Béré K. Diallo, Kingston Mills, David Loane (Ireland)

P3.01.27 The role of A20 in microglia in preventing CD8 T cell-mediated neuronal alterations
Yogita Mallu Kattimani¹, Melanie Müller¹, Alma Nazlie Mohebiany², Ari Waisman¹ (¹Germany, ²Belgium)

P3.01.28 The beneficial effects of N-methyl-D-aspartate receptor antagonism on experimental autoimmune encephalomyelitis in aged rats
Jasmina Djuretić, Ivana Ćuruvija, Veljko Blagojević, Ivana Prijić, Biljana Bufan (Serbia)

P3.01.29 Investigation of the effect of complement system components C5a and C5a receptor C5aR1 in an in vitro Alzheimer’s disease model
Abdullah Demir, Gizem Gürel, Furkan Aydin, Basak Aru, Gülderen Yanıkkaya Demirel (Turkey)

P3.01.30 Impact of parasite antigens on neuroinflammation and tissue remodelling in neurocysticercosis
Luz Toribio¹², Deborah L.W. Chong¹, Hector H. Garcia²³, Jon S. Friedland¹ (¹United Kingdom, ²Peru, ³USA)

P3.01.31 Inflammatory and bioenergetic abnormalities in patients with ischemic stroke
Eleonora Kovacheva, Maria Gevezova, Margarita Koeva, Vasilka Kormova, Emanuela Kostadinova, Yulia Kostadinova, Maria Kazakova, Victoria Sarafian (Bulgaria)

P3.01.32 Consecutive occurrence of relapsing polychondritis and mononeuritis multiplex leading to diagnosis of Sjogren’s syndrome
Milica Terzic, Sladjana Andrejevic, Vesna Tomic-Spiric, Sanvila Raskovic (Serbia)
POSTER SESSION 3

P3.01.33 Inflammatory and autophagy markers as a discriminative tool of bacterial and viral infections in the central nervous system
Maria Kazakova, Yordan Kalchev, Valentin Dichev, Petya Argirova, Kiril Simitchiev, Mariana Murdjeva, Victoria Sarafian (Bulgaria)

P3.01.34 Neutrophil heterogeneity and susceptibility of NETs formation in patients suffering from autoimmune neurological disorders
Eliška Krčmárová, Jiri Hrdy, Viktor Cerny, Petra Petrásková, Olga Novotná, Petra Nytrová, Michaela Týbolová, Jana Lizrová, Helena Pilsová, Barbora Beroušková, Helena Posová (Czech Republic)

P3.01.35 Correlation between inflammatory and bioenergetic parameters abnormalities in autism spectrum disorder - a possible clue to cellular dysfunction?
Maria Gevezova, Zdravko Ivanov, Iliana Pacheva, Elena Timova, Maria Kazakova, Eleonora Kovacheva, Ivan Ivanov, Victoria Sarafian (Bulgaria)

P3.01.36 Relationship between miRNAs and immune -bioenergetic dysfunction in autism spectrum disorder
Nikolay Mehterov, Maria Gevezova, Iliana Pacheva, Elena Timova, Ivan Ivanov, Victoria Sarafian (Bulgaria)

P3.01.37 Plant-derived cannabinoids: regulators of NLRP3 inflammasome signaling in immune cells with relevance to multiple sclerosis
Almudena Otálora Alcaraz, Melody Cui Sun, Jack Prenderville, Eric J. Downer (Ireland)

P3.01.38 Interferon-gamma induces tolerogenic phenotype and activity in monocyte-derived dendritic cells from patients with multiple sclerosis and healthy donors
Brian Parra-Tello, Constanza Vilchez, Karin Jimenez, Carlos Guevara, Rodrigo Naves (Chile)

P3.01.39 Therapeutic role of interferon-gamma in experimental autoimmune encephalomyelitis is mediated through a tolerogenic subset of splenic CD11b+ myeloid cells
Gabriel Arellano1,2, Eric Acuña, Eileah Loda2, Lindsay Moore2, Juan Tichauer1, Cristian Castillo1, Favián Vergara1, Paula I Burgos1, Pablo Penalosa-MacMaster2, Stephen Miller2, Rodrigo Naves1 (Chile, USA)

P3.01.40 Interferon-gamma induces tolerogenic dendritic cells with suppressive activity in experimental autoimmune encephalomyelitis
Constanza Vilchez, Brian Parra-Tello, Luis González, Carolina Prado, Rodrigo Pacheco, Rodrigo Naves (Chile)

P3.01.41 Neuroimmune interactions shape vascular inflammation: evidences from mouse and human studies
Sarajo Mohanta, Yuanfang Li, Ting Sun, Shu Lu, Zhe Ma, Benjamin Försterha, Mingyang Hong, Xinyi Deng (Germany)

P3.01.42 Astaxanthin-loaded polyarginine nanocapsules inhibit astrocyte reactivity
Jimena Cordero-Machuca, Constanza Vilchez, Brian Parra-Tello, Luis González, Felipe Oyarzún-Ampuero, Rodrigo Naves (Chile)
P3.01.43 DICAM+ infiltrating monocytes: a mode to control neuroinflammation?  
Marina von Essen, Marie Mathilde Hansen, Sahla El Mahdaoui, Finn Sellebjerg (Denmark)

P3.01.44 Significance of second-generation psychotic drugs in regulation mast cell response: an in vitro study  
Justyna Agier, Elżbieta Kozłowska, Milena Donizy, Magdalena Wiktorska, Paulina Żelechowska (Poland)

P3.01.46 Selective alteration to CD4 subset differentiation by heterozygous IRF4 L116R protects against neuroinflammation  
Rebecca A. Jaeger, Nadia A. Roberts, Cynthia Turnbull, Sandali Seneviratne, Jessica A. Pettitt, Fiona D. Ballard, Rebecca L. Buckland, Anselm Enders, Anne Bruestle (Australia)

P3.01.47 Serum neurofilament light as a biomarker of cognitive status in patients with polymyalgia rheumatica  
Patricia Harkins, Sharon Cowley, Robert Harrington, Jean Dunne, David Kane, Niall Conlon, Richard Conway (Ireland)

P3.01.48 Flow cytometry live cell-based assay display higher sensitivity to detect autoantibodies against myelin oligodendrocyte glycoprotein (MOG-IgG)  
Daniel Lorca-Arce, Laura Naranjo-Rondán, Rocío Soledad Couso, Maria Antonia Romera, Mari Carmen Anton, Arnau Trillas, Juan Francisco Luchoro, Jose Maria Cabrera, Maria Sepúlveda, Albert Saiz, Yolanda Blanco, Thais Armangue, Eugenia Martinez Hernandez, Raquel Ruiz García (Spain)

P3.01.49 Liposomal packaging enhances treatment efficacy in neuroinflammation  
Nadia A. Roberts, Jessica A. Pettitt, Jason Price, Tony Xu, Rebecca L. Buckland, Ines Atmosukarto, Anne Bruestle (Australia)

P3.01.50 The peripheral immune landscape in a humanized mouse model of Alzheimer’s disease  
Ruchi Gera, Sumonto Mitra, Simone Tambaro, Per Nilsson, Maria Eriksdotter (Sweden)

P3.01.51 Flow cytometry live cell-based assay for detection anti-aquaporin 4 antibodies (AQP4-IgG)  
Raquel Ruiz García, Laura Naranjo-Rondán, Rocío Soledad Couso, Maria Antonia Romera, Mari Carmen Anton, Arnau Trillas, Juan Francisco Luchoro, Jose Maria Cabrera, Maria Sepúlveda, Yolanda Blanco, Thais Armangue, Eugenia Martinez Hernandez, Albert Saiz, Daniel Lorca-Arce (Spain)

P3.01.52 Sex-dependent effects of short-term aerobic exercise on age-related neuroinflammation in the mouse  
Joana Augusto, Zsuzsanna Barad, Áine, M. Kelly (Ireland)

P3.01.53 Unlocking the gut-brain axis: microbiota’s impact on neuroinflammation  
Emely Elisa Neumaier, Lisa-Maria Edrich, Mathias Linnerbauer, Laura Krumm, Thanos Tsaktanis, Markus F Neurath, Beate Winner, Veit Rothhammer, Claudia Günther (Germany)
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P3.01.54 Intestinal inflammation as a precursor for Parkinson’s disease
Luis Eduardo Goncalves, Bruno Ghirotto Nunes, Vivien Ruder, Claudia Günther, Beate Winner, Markus F. Neurath (Germany)

P3.01.55 Investigating the impact of long-term endurance exercise on brain inflammaging in male and female C57BL/6J mice
Zsuzsanna Barad, Joana Augusto, Áine, M. Kelly (Ireland)

P3.01.56 Comparative analysis of brain-derived neurotrophic factor (BDNF) and amphiregulin (Areg) secretion in multiple sclerosis patients: implications for regenerative therapy
Morgane Vermeulen1, Jasper Van Den Bos1, Hans De Reu1, Barbara Willekens1, Inez Wens1, Nathalie Cools (Belgium)

P3.01.57 Cerebrospinal fluid biomarkers soluble CD27 and B-cell maturation antigen in multiple sclerosis and neuroinfection
Malene Bredahl Hansen, Helle Bach Sondergaard, Helene Mens, Anne-Mette Lebecch, Finn Sellebjerg, Jeppe Romme Christensen (Denmark)

P3.01.58 Positivity for anti-NMDAR antibodies exclusively detected by cell-based assay is not associated with clinical presentation and diagnosis of NMDAR encephalitis
Laura Naranjo-Rondán, Rocío Soledad Couso, María Antonia Romera, Mari Carmen Anton, Arnau Trillas, Mar Guasp, Eugenia Martinez Hernández, Francesc Graus, Raquel Ruiz García (Spain)

P3.01.59 Fas/FasL contributes to HSV-1 brain neuroinflammation and neurodegeneration
Malgorzata Krzyzowska1, Magdalena Patrycy1, Kristina Eriksson2 (Poland, 2Sweden)

P3.01.60 Functional characterization of conditioned media derived from mesenchymal stem cells transfected with anti-mir-29 family using antagomirs on cell lines of neurodegenerative diseases
Violeta Gómez-Vicente, Sandra Pascual García, Jose Miguel Sempere-Ortells, Pascual Martínez-Peinado (Spain)

P3.01.61 Autophagy regulation in peripheral blood mononuclear cells of patients with myasthenia gravis
Emina Milosevic, Verica Paunovic, Marina Stamenkovic, Stojan Peric, Ivana Basta, Ivo Bozovic, Zorica Stevic, Vladimir Trajkovic (Serbia)

P3.01.63 Analysis of immune cell subsets in neuronal ceroid lipofuscinosis 2 and immune response to enzyme replacement therapy
Zoe-Isabella Junginger, Lena Marie Westermann, Manuela Kolster, Laura Glau, Anna Marei Mann, Angela Schulz, Eva Tolosa (Germany)

P3.01.64 BB cells repopulating after rituximab treatment of persons with Multiple Sclerosis display increased activation at the single-cell transcriptomic level, despite absence of clinical disease activity
Chiara Starvaggi Cucuzza, Chiara Sorini, Maria Needhamsen, Susanne Reinsbach, Åsa Björklund, Mohsen Khademi, Nicolas Ruffin, Maja Jagodic, Fredrik Piehl (Sweden)
POSTER SESSION 3

P3.01.65 Exosomes secreted from microglia during chronic virus infection can induce demyelinating disease
Nhungoc Luong, Julie Olson (USA)

P3.01.66 Diagnostic utility of cerebrospinal fluid MOG-IgG
Vyanka Redenbaugh1,2, Laura Cacciaguerra2, Eoin Flanagan2 (United Kingdom, USA)

P3.01.67 B lineage IL-10 affects B cell metabolism and age-associated inflammation of the nervous system
Christopher Udoye, Rudolf Manz (Germany)

P3.01.68 NKG2D regulates the effector functions of CD4 T cells during neuroinflammation
Christoforos Dimitropoulos1, Timo Rücker1, Bojan Polic2, Marina Babic2, Chiara Romagnani1 (Germany, Croatia)

P3.01.69 FOXP3+ regulatory T cells gatekeep maternal immune activation to secure proper brain development in offspring
Ho-Keun Kwon, Gi-Cheon Kim (South Korea)

P3.01.70 Detailed characterization, evolution and early events of brainstem tau pathology in anti-IgLON5 disease
Raphael Reinecke1, Ellen Gelp1, Morten Blaabjerg2, M. Elena Erro3, Julia Ferrari1, Markus Glatzel4, Anna Heidbreder1, Birgit Högl1, Jan Lewerenz4, Liisa Myllykangas5, Mara Poppovic5, Peter Schnider1, Deniz Yilmazer-Hanke4, Lidia Sabater3, Carles Gaig3, Romana Höftberger1 (Austria, Denmark, Spain, Germany, Finland, Slovenia)

P3.01.71 Modulation of neuroinflammation by interleukin-10 in mouse microglial cells
Kathryn Nelson1, Andrew Wilcox2, Nichole Schrantz1, Isabel O’Brien1, Jim Rivard1, Callie Sagarsky1, Rainer Grant1, Makenna Carlson-Habegger1, Megan Larson1, Mandy Kubik1 (USA, United Kingdom)

P3.02 NOVEL APPROACHES TO VACCINOLOGY

P3.02.01 Modulation of HIV-1 Env antibody responses in mice with rationally designed calcium phosphate nanoparticles
Dominik Damm, Leonardo Rojas Sánchez, Kathrin Kostka, Christoph Weingärtner, Jannik T. Wagner, Klaus Überla, Matthias Epple, Vladimir Temchura (Germany)

P3.02.02 A two-component vaccination strategy based on polyfunctional calcium phosphate nanoparticles
Christoph Weingärtner, Kathrin Kostka, Dominik Damm, Klaus Überla, Matthias Epple, Vladimír Temchura (Germany)

P3.02.03 Design considerations towards a RIG-I adjuvanted CMV mRNA vaccine
Svenja Dudek1, Jan Kacprzak1, Christine Wuebben1, Thomas Zilliger1,2 Gunther Hartmann1 (Germany, Denmark)
P3.02.04  Inorganic fullerene-like tungsten disulfide nanoparticles strongly modulate the immune response in vitro
Darinka Popović¹, Snežana Zečević¹, Sergej Tomić², Marina Bekić², Sara Rakočević¹, Maja Kosanović², Dušica Stojanović², Petar Uskoković², Milan Marković², Dejan Bokonjić, Miodrag Čolić¹,² (Bosnia and Herzegovina, ²Serbia)

P3.02.05  Evaluation of the dose sparing effects of mmCT, dmLT and alum on two different vaccines in a neonatal mouse model
Jenny Lorena Molina Estupinan, Poorya Foroutan Pajoohian, Stefánia P. Bjarnarson, Ingileif Jónsdóttir, Audur Anna Aradottir Pind (Iceland)

P3.02.06  Spatial analysis of rhesus macaque lung tissue shows a key role for vaccination or previous SARS-CoV-2 challenge in immune pulmonary status
Cillian Gartlan, Francisco J. Salguero, Amy R Cross, Peter Todd, Megan Bradbury, Matthieu Miossec, Benjamin Wright, Mark Coles, Fadi Issa, Joanna Hester, Stephen Taylor, Tom Tipton, Miles Carroll (United Kingdom)

P3.02.07  RIG-I ligand adjuvanted mRNA vaccines
Christine Wuebben¹, Thomas Zillinger¹,², Janos Ludwig¹, Gunther Hartmann¹ (¹Germany, ²Denmark)

P3.02.08  Recapitulating memory B cell responses in a lymphoid organ-chip to evaluate mRNA vaccine boosting strategies
Raphaël Jeger-Madiot¹, Delphine Planas¹, Isabelle Staropoli¹, Jérôme Kervecan¹, Héloïse Mary¹, Camilla Collina¹, Barbara F. Fonseca¹, Hippolyte Debarnot¹, Rémy Robinot¹, Stacy Gellenoncourt¹, Olivier Schwartz², Lorna Ewart², Michael Bacheiner³, Samy Gobaa¹, Lisa Chakrabarti¹ (¹France, ²USA, ³Switzerland)

P3.02.09  Improving paediatric vaccine responses: a neonatal mouse model of pneumococcal vaccination

P3.02.10  Investigating SARS-CoV2 antigen cross-reactivity of secreted (monoclonal) antibodies using droplet microfluidic linked deep sequencing
Luca Schlotheuber¹, Klaus Eyer² (¹Switzerland, ²Denmark)

P3.02.11  Comprehensive profiling of vaccine-induced tissue response using ex vivo natural human skin modules
Manon Scholaert¹, Mathias Peries¹, Emilie Braun¹, Jeremy Martin¹, Nadine Serhan¹, Alexia Loste¹, Bruner Audrey¹, Lilian Basso¹, Benoît Chaput¹, Eric Merlé², Pascal Descargues², Emeline Pages¹, Nicolas Gaudenzio¹ (¹France, ²USA)

P3.02.12  An investigation of novel vaccination strategies for inducing gastric mucosal immunity
Nicole O'Sullivan, Dorian Dederko, Ed Lavelle (Ireland)

P3.02.13  Determining the immune response to vaccines in healthy individuals and cancer patients using a systems immunology approach
Sina Angenendt, Carlotta Schieler, Aileen Schenk, Sina Beer, Thorben Groß, Aylin Heinrich, Estel Collado Camps, Lars Zender, Claudia Lengerke, Klaus Schulze-Osthoff, Florian Wimmers (Germany)
### POSTER SESSION 3

**P3.02.14**  High affinity “non-cognate” ligand proteins as a new strategy for hepatitis C virus vaccine  
*Petr Kosztyu, Lucie Vankova, Eliska Kopecna, Shiv Bharadwaj, Milan Kuchar, Veronika Daniel Liskova, Hana Petrokova, Leona Raskova Kafkova, Petr Maly, Milan Raska* *(Czech Republic)*

**P3.02.15**  Design and development of a multi-epitope vaccine prototype against SARS-CoV-2  
*Andrey Tchorbanov, Nikola Ralchev, Iliyan Manoylov, Silviya Bradyanova, Nikolina Mihaylova, Irini Doytchinova, Slavka Tcholakova* *(Bulgaria)*

**P3.02.16**  Enhancing HIV vaccine efficacy through oral adjuvants: unveiling the role of aryl hydrocarbon receptor agonists in boosting cytotoxic memory-like natural killer cell responses  
*Mario Alles, Manuja Gunasena, Christina Isckarus, Ilmini De Silva, Sarah Board, Will Mulhern, Namal Liyanage* *(USA)*

**P3.02.18**  Tailoring the adjuvanticity of lipid nanoparticles by PEG lipid ratio and phospholipid modifications  
*Norbert Pardí1, Mate Vadovics Vadovics1,2, Kieu Lam2, Emily Daley1, Owen Daley2, Petra Schreiner2, Wencheng Zhao2, Kendall Lundgreen1, Brian Gaudette1, Hiromi Muramatsu1, Edit Abraham3, Zoltan Lipinszki3, Paul Bates1, David Allman1, James Heyes2* *(1USA, 2Canada, 3Hungary)*

### P3.03 PATTERN RECOGNITION RECEPTORS

**P3.03.01**  Development and functional analysis of inducible RNA agonists for spatiotemporal control of RIG-I activation  
*Sandra Anika Zeidler, Vivien Rose McKenney, Christine Wuebben, Thomas Zilliger, Janos Ludwig, Alexander Heckel, Gunther Hartmann* *(Germany)*

**P3.03.02**  RIG-I like receptor activation by mRNA incorporating modified nucleosides  
*Katharina I. Maser, Katrin Ciupka, Bastian Putschli, Charlotte Hunkler, Martin Schlee, Eva Bartok, Gunther Hartmann, Thomas Zilliger* *(Germany)*

**P3.03.03**  Temperature regulates toll-like receptor signalling in macrophages  
*Ryan Knight, Wei Wang, Rebecca Coll* *(Ireland)*

**P3.03.04**  Characterization of STING agonist-induced monocyte cell death reveals combination of apoptosis, pyroptosis and caspase 8 activation  
*Marketa Pimkova Polidarova, Andrea Brazdova, Ivan Hirsch, Klara Grantz Saskova* *(Czech Republic)*

**P3.03.05**  The RIG-I/MAVS pathway promotes Wnt signaling-dependent osteogenic differentiation and calcification of human aortic smooth muscle cells  
*Madeleine Gräf, Paraskevi Vasileiadou, Sofia Soler, Thomas Zilliger, Eva Bartok, Gunther Hartmann* *(Germany)*
P3.03.07  HMGB1 genetic variants: impact on hepatocellular carcinoma susceptibility and progression in the Moroccan population  
Chaimaa Zerrad (Morocco)

P3.03.08  Evaluating the determinants of RNA recognition by innate immune sensors using the RNA sensing reporter cell lines  
Sebastien Desfarges, Clarisse Hemadou-Lozano, Emeline Biret, Benjamin Rauwel, Benjamin Rauwel, Clemence Prost, Arnaud Debin, Michele Tiraby (France)

P3.04 POLYMORPHISMS AND MUTATIONS IN IMMUNOGENETICS

P3.04.01  Model for the study of drug hypersensitivity based on Bucilamine and the HLA-DRB1*08:02 allele in Colombian Amerindian populations  
Carlos Parga-Lozano, Nohemí Esther Santodomingo Guerrero (Colombia)

P3.04.02  Assessing the impact of SERPING1 gene exons 5 and 6 duplications on mRNA expression in type 1-hereditary angioedema  
Andrea Ferranti, Silvia Romero Chala, Esther Vergara Prieto, Jose Antonio García Trujillo, María Bravo García-Morato, Luis Miguel Fernández Pereira (Spain)

P3.04.03  High risk PNPLA3 rs738409 single nucleotide polymorphism is associated with higher concentrations of CCL2 in alcoholic end-stage liver disease  
Tomislav Kelava, Ivan Budimir Bekan, Pavao Planinić, Dino Šisl, Alan Šućur, Ana Bainrauch, Sara Aničić, Katerina Zrinski Petrović, Nataša Kovačić, Danka Grčević, Vibor Šeša, Anna Mrzljak (Croatia)

P3.04.04  Follow-up with digital PCR of a patient with VEXAS syndrome treated with azacitidine  
Alba Exposito Bey, Alicia Jurado Orozco, Carmen Morales Garcia, Marco Montes Cano, María Francisca González Escribano, José Raúl García Lozano (Spain)

P3.04.05  New scenario: interleukin-2 receptor gamma gene mutation as a variant of uncertain significance  
Vivian Lizeth Stewart DelCid, Ernesto Roldan Santiago, Eulalia Rodríguez Martín, Elena Manterola Navarro, Rafael Rodriguez Ramos, José Luis Veiga González, Celia Ferré Hernández, Daniel Albert Mendoza Bravo, Ivan García De La Torre, Alexander Rodero Romero, Patricia Fernández San José, Ana De Andres Martin, Rebeca Perez de Diego (Spain)

P3.04.06  HLA polymorphism in Leishmania infantum infection  
Juan Francisco Gutiérrez-Bautista, Maria del Carmen Barrera Aguilera, Beatriz Fernandez Perea, Lucia Ballesta Alcaraz, Ana Marin, Mónica Bernal, Pilar Jimenez, Jose Ramón Vilchez, Miguel Ángel López-Nevot (Spain)

P3.04.07  Impaired reprogramming of the autophagy flux in maturing dendritic cells from Crohn’s disease patients with core autophagy gene-related polymorphisms  
Gaelle Quiniou, Leslie Andromaque, Rémi Duclaux-Loras, Christophe Viret, Stéphane Nancey, Mathias Faure, Aurore Rozieres (France)
investigation of the role of the toll-like receptor 3 (tlr3) leu412phe (tlr3 l412f) single nucleotide polymorphism in the pathogenesis of long covid

thomas j. butler, shane o’brien, luka moric, muireann carey, zara cunningham, seams donnelly, michelle e. armstrong (ireland)

TLR7, IFITM3, and OAS1 polymorphisms shape COVID-19 susceptibility, severity, and outcome

sanja matic, natasa djordjevic, danijela todorovic, suzana popovic, zeljko mijailovic, dragan milovanovic, predrag djurdjevic, katarina vitocevic, srđjan stefanovic, vanja canovic, tijana markovic, nemanja djordjevic, dejan baskic (serbia)

Proinflammatory cytokine polymorphisms in immune-mediated glomerular disease

aleksandra djuric, marina perić, nataša stajić, jovana putnik, aleksandra paripović, ivana novakovic, vladislav vukomanović, emina milosevic (serbia)

P3.05 T LYMPHOCYTE REGULATION AND FUNCTION

The role of NFκB inducing kinase in regulatory T cells and tissue regulatory T cell subtypes

Zeynep Ergün, Ari Waisman (Germany)

Hybrid SARS-CoV-2 immunity induces durable cellular pan-coronavirus immunity also in the elderly

Lucie Loyal, Julian Braun, Andreas Thiel (Germany)

Role of co-stimulatory molecules expressed by dendritic cells in formation of immunological synapse

Vincent Gloe (Switzerland)

Ligand-independent signalling of T cell inhibitory receptors.

Sidrah Naseem, Zhengmin Yang, Andrea Nunez, Jesse Goyette (Australia)

Histone deacetylases 1 and 2-mediated control of intestinal CD4+ T cell immunity

Phuc Tran Huu, Rafael de Freitas e Silva, Teresa Preglej, Moritz Madern, Birgit Niederreiter, Sara Catarina Da Silva Miranda, Caroline Lassnig, Birgit Strobl, Michael Bonelli, Wilfried Ellmeier (Austria)

Two step selection for bias in β Chain V-J pairing

Yoram Louzoun, Reut Levi (Israel)

Blockade of PD-1 and costimulation of the CD27 pathway drive the Eomes-dependant proliferation of CD8 T cells with an exhausted phenotype

Solangé Dejolier, Marie Le Moine, Hacene Dreidi, Lune Cassart, Sébastien Denanglaire, Soren Temara, Guillaume Oldenhove, Stanislas Goriely, Fabienne Andris (Belgium)
P3.05.08  Study of TSLP signaling through dendritic cells in driving skin T cell responses
Marine Guivarch, Pierre Meyer, Pierre Marschall, Thien-Phong Vu Manh, Pierre Hener, Justine Segaud, Beatriz Germán Falcón, Marc Dalod, Mei Li (France)

P3.05.09  Identification of functional peptide-specific Nsp3, NC and M SARS-CoV-2 T-cell responses in hybrid immunity
Laia Bernad Rosa, Raul Pérez-Caballero, Athina Kilpelainen, Oscar Blanch-Lombarte, Luis Romero, Ruth Peña, Gabriel Felipe Rodríguez-Lozano, Josep Maria Manresa-Dominguez, Bonaventura Clotet, Alex Olivera, Christian Brander, Eva María Martínez Cáceres5, Concepción Violán, Pere Torán-Montserrat, Julia G Prado (Spain)

P3.05.10  Next-level efficiency: StraightFrom Spleen Isolation Kits - standardizing isolation of untouched T cells with minimal hands-on time
Amelie Borczewski, Sebastian Flade, Elina Neufeld, Ermanila Dhana, Gregor Winkels, Anna Baranska (Germany)

P3.05.11  Oxysterol-mediated inhibition of CD8 T cell metabolism and function
Ella Rogerson, Aisling Cameron, Aisling McCrudden, Sakshi Sankhla, David Finlay (Ireland)

P3.05.12  The role of G-protein γ subunit 2 in the pathogenicity of CD4+ T cell in experimental autoimmune uveitis
Suci Cendanawati, Benjamin Ede, Amy Ward, Oliver Bell, Dave Copland, Andrew Dick, Anne Ridley, Lindsay Nicholson (United Kingdom)

P3.05.13  Exploring affinity-dependent metabolic imprinting of anti-viral T cell responses
Hannah Bollons, Tracey Haigh, Nancy Gudgeon, Guillaume Desanti, Graham Taylor, Sarah Dimeloe, Heather Long (United Kingdom)

P3.05.14  SARM, a TLR adapter with NADase activity, regulates the differentiation of distinct populations of CD4 T cells and their inflammatory activity
Samuel dos Santos Oliveira, José Arimatéa de Oliveira Nery Neto, Eloisa Martins, Raquel Vieira, João Vinícius Honório da Silva, Victor Yuji, Marcella Cipelli, Niels Olsen Saraiva Camara (Brazil)

P3.05.15  Polyphosphate regulates T-cell metabolism and differentiation
Benita Kröger, Marion Mengel, Mandy Malle, Reiner Mailer (Germany)

P3.05.16  RORA proximal enhancers regulate its expression during early human TH17 cell differentiation
Ubaid Ullah Kalim1, Rahul Biradar1, Sini Junttila1, Mohd Moin Khan1, Subhash Tripathi1, Meraj Hasan Khan1, Johannes Smolander1, Kartiek Kanduri1, Tapio Envall1, Asta Laiho1, Alexander Marson2, Omid Rasool1, Laura Elo1,2, Riitta Lahesmaa1,2 (Finland, USA)

P3.05.17  Identification of highly suppressive human regulatory T cells in old age
Lourdes Rocamora Reverte, Jonathan Dieringer, Birgit Weinberger (Austria)

P3.05.18  Deciphering the impact of preecclampsia on γδ T cells in the decidua
Ziqing Wang, Paulina Lukomska, Tao Yang, Aavani Biju Sindhu, Madeleine Wagner, Ralf Schild, Anke Katharina Bergmann, Christine Morfeld, Sarina Ravens (Germany)
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<td>Histone deacetylase class I, especially HDAC2 leads to change of the CD4+ lineage genes and switch the differentiation to CD4+CD8α+ T cells</td>
<td>Laurin Braune, Hannah R. Spatzier, Anne-Marie Glimm, Lina E. Werner, Kathleen Friedrich, Phuong Nguyen, Ulf Wagner, Kathrin Rothe</td>
<td>Germany</td>
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<td>Elise Solli, Nuria Garcia Diaz, Ehsan Hajjar, Selma Cornillot-Clément, Johannes Landskron, Ralf Ahmad, Qian Wei, Kjetil Taskén</td>
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<td>Splenic and circulating CD4+ T lymphocyte subsets in autoimmune and malignant hematologic disorders</td>
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<td>Chronic stress fine-tunes the transcriptomics of ageing T cells in ‘dirty’ mice</td>
<td>Chinna Susan Philip¹, Uku Haljasorg¹, Igor Filippov¹², Pärt Peterson¹</td>
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<td>Breaking barriers: scrutinizing T cells that act at the forefront in people who develop multiple sclerosis</td>
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<td>NFAT single-deficient T cells as a therapeutic option for anti-leukemia and anti-lymphoma responses</td>
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P3.05.32 Deformability cytometry of Jurkat cells for cell immunotherapy
Lija Fajdiga, Nina Bernat, Lara Betocchi, Špela Zemljič Jokhadar, Jure Derganc (Slovenia)

P3.05.33 Expression of cytotoxic T-lymphocyte associated protein 4 in interleukin-17A-producing T cells and regulatory T cells is critical for immune homeostasis: Implications for sarcoidosis pathogenesis
Lieke de Jong, Jelle Miedema, Ingrid Bergen, Jennifer van Hulst, Menno van Nimwegen, Anne-Marie Mus, Erik Lubberts, Rudi Hendriks, Odilia Corneth (Netherlands)

P3.05.34 Quantitative and functional heterogeneity in CD4+ T cell responses to primary COVID-19 mRNA vaccination in older adults
Yvonne Dogariu, Martijn Vos, Jacquenline van Gaans-van den Brink, Teun Guichelaar, Elske Bijvank, Josine van Beek, Jelle de Wit, Patricia Kaaijk, Cécile van Els, Jolanda Brummelman (Netherlands)

P3.05.35 Contribution of circulating Th2-like Tfr and Th2-like treg cell subsets to early detection in patients with lung adenocarcinoma
Ziqi Xiong, Ayibaota Bahabayi, Chen Liu (China)

P3.05.37 Development of a CRISPR/Cas9 system for functional studies of transmembrane adaptor protein knockout T cells
Nouria Jantz-Naeem, Patricia Gintschel, Anja Sammt, Camilla Merten, Andreas Müller, Sascha Kahlfuß, Burkhart Schraven (Germany)

P3.05.39 Impact of estrogen receptor signaling on Th17 cell polarization: possible contribution to Systemic lupus erythematosus development?
Alisier Malard, Tobias Alexander, Julia K Polansky (Germany)

P3.05.40 CD25-biased IL-2/anti-IL-2 mAb complexes potently expand antigen-primed CD8+ T cells and overcome Treg cell-mediated suppression of activated CD8+ T cells
Petra Weberova, Irfan Baki Kilic, Katerina Behalova, Bohumil Ptacek, Milada Sirova, Blanka Rihova, Marek Kovař (Czech Republic)

P3.05.41 Histone deacetylase 1 as a regulator of CD4+ T cell expansion in skin autoimmunity
Melanie Jensen1, Alice Taliento1, Maria Stigler1, Ludwig Erlmeier1, Nikolaus Fortelny1, Wilfried Ellmeier1, Iris Gratz1,2 (Austria, USA)

P3.05.42 Pro-inflammatory response of human memory CD8 T cells are kept in check by GZMB B regulatory B cells
Tess Van Meerhaeghe1,2, Manuel Laslandes2, Nabila Djouadi2, Richard Danger2, Gaelle Tilly2, Sarah Bruneau2, Christophe Masset2, Alain Le Moine1, Mai Hoa2, Sophie Brouard2, Nicolas Degauque2 (Belgium, France)

P3.05.43 Fast & efficient particle-free isolation of mouse CD304+ natural regulatory T cells
Alistair Chenery, Trevor Rogers, Allen Eaves, Sharon Louis, Frann Antignano (Canada)

P3.05.44 The role of follicular cytotoxic T cells subsets and their function in chronic lymphocytic leukemia
Fatih Akboğa, Fehmi Hindilerden, İpek Yonal Hindilerden, Emine Gulturk, Gunnur Deniz, Metin Yusuf Gelmез (Turkey)
P3.05.45 Helios and KLRG1 refine the definition of functionally altered CD8+ T cell subsets that evolve by aging and CMV infection  
**Tamara Schenk, Martijn Vos, Debbie van Baarle, Teun Guichelaar** (Netherlands)

P3.05.46 TCF1 enhances regulatory T cells and is upregulated in SLE via the Wnt-β-catenin pathway  
**Chen Liu, Xingyue Zeng, Ayibaota Bahabay, Xiayidan Alimu** (China)

P3.05.47 Investigation of canine T cell receptor beta chain constant gene variants: Implications for Immunotherapy of T cell malignancies  
**Marek Pieczka, Leszek Moniakowski, Dominika Kubiak-Nowak, Arkadiusz Miążek** (Poland)

P3.05.48 Therapeutic targeting of the cyclic-AMP/prostaglandin E2 pathway in ovarian cancer  
**Nathaniel Edward Bennett Saidu, Katharina Bischof, Youxian Li, Mentowa Fürst Bright, Nora Rojahn Bråthen, Kjetil Taskén** (Norway)

P3.05.49 Uncovering molecular mechanisms of rapid protection mediated by memory CD8+ T cells  
**Eva Šályová, Ondrej Stepanek** (Czech Republic)

P3.05.50 A role for a novel factor in T cell biology  
**Gonçalo Malpica, Silvia Ariotti, Himadri Mukhopadhyay, Germano Vicente, Alea Radcke, Marc Veldhoen** (Portugal)

P3.05.51 Antigen-specificity determines effector function or regulatory capacity of T cells stimulated by B cells  
**Chien-Hui Chien, Chieh-Hsin Liao, Bor-Luen Chiang** (Taiwan)

P3.05.52 Increased number of Th1 cells and monocytes is associated with infected non-union in patients with long bone fracture  
**Pia Fehrenbach, Ferdinand Weisemann, Claudia Siverino, Katharina Trenkwalder, Laura Bürgi, Simon Hackl, Sebastianus A.J. Zaat, Esther de Jong, T. Fintan Moriarty** (Switzerland, Netherlands, Germany, Austria)

P3.05.53 Impact of CD69 on experimental autoimmune encephalomyelitis development  
**Laura Notario, Alicia Ballester, Sara Ballester, Elena Lorente, Pilar Lauzurica** (Spain)

P3.05.54 T cell aging deciphered: a comprehensive study of aging-related adaptations in murine intestinal T cells  
**Martina Palatella, Jana Niemz, Ihor Fillipov, Stefan Flöß, Michael Beckstette, Xiaojing Chu, Raimo Franke, Meina Neumann-Schaal, Diego Ortiz, Christine Falk, Oliver Burton, Adrian Liston, Mark Broenstrup, Leif Schauser, Till Strowig, Maria Rohm, Yang Li, Jochen Huehn** (Germany, Denmark, United Kingdom)

P3.05.55 Th17 cells requires the DNA repair protein XPC to control oxidative DNA damage  
**Jefferson Leite, Luisa Menezes Silva, Eloisa Martins, Giovana da Silva Leandro, Natália Notarberardino Bos, Talita Gonçalves de Oliveira, Victor Yuji, José Arimatéa de Oliveira Nery Neto, Samuel dos Santos Oliveira, Marcella Cipelli, Patrick da Silva, Sabrina Baroni, Stefanie Scheu, Leandro Colli, Sandra Marcia Muxel, Ari Waisman, Carlos Frederico Martins Menck, Niels Olsen Saraiva Camara** (Germany, Brazil, USA)
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P3.05.56 Unraveling the Impact of CD69 Modulation on CD8+ T Cell Responses During Viral Infection
Elena Lorente, Yara Cuesta, Ana Pintor-Poveda, Laura Cobos-Figueroa, Laura Notario, Pilar Lauzurica (Spain)

P3.05.57 Modelling drug-sensitisation of human T-cells to predict risk of skin rash in the clinic
Paul Thomson¹, David Spiciarich², Sophie Grice¹, Catherine Betts¹, Dean Naisbitt¹ (¹United Kingdom, ²USA)

P3.05.58 Neonatal regulatory T cells persist into adulthood in multiple tissues and are enriched in the skin
Morgane Hilaire, Léonie Cagnet, Aristeidis Roubanis, Benoît L. Salomon (France)

P3.05.59 Plasmatic extracellular vesicles at the intersection of immune and metabolic dysregulation in obesity and type 2 diabetes
Ilaria Spatocco, Giorgia Mele, Giovanni Di Lorenzo, Davide Nilo, Clorinda Fusco, Kristyna Ruggiero, Giusy De Rosa, Claudia Russo, Mirjam Hoxha, Valentina Bollati, Claudio Procaccini, Giuseppe Matarrese, Ferdinando Sasso, Paola de Candia (Italy)

P3.05.60 An integrated plasma circulating protein-miRNA signature in type 1 diabetes: markers and players of disease progression
Giorgia Mele, Ilaria Spatocco, Licia Prestagiacomo, Clorinda Fusco, Kristyna Ruggiero, Giusy De Rosa, Claudia Russo, Alessandra Petrelli, Claudio Procaccini, Giuseppe Matarrese, Marco Gaspari, Paola de Candia (Italy)

P3.05.61 Mass cytometry-based immune profiling of human Peyer’s patches in crohn’s disease
Adrian Huck, Yasmina Rodriguez Sillke, Christian Bojarski, Désirée Kunkel, Ulrich Steinhoff, Britta Siegmund, Rainer Glauben (Germany)

P3.05.62 Activation of memory and naïve Th cells distinctively affected by myeloid cells with different co-stimulation capabilities
Sıla Ulutürk, Güneş Esendağı (Turkey)

P3.05.63 Inflammatory cytokine-producing gamma delta T cells are increased in the inflamed skin of hidradenitis suppurativa patients
Andreea Petrasca, Conor Smith, Isla David, Orlaith Walsh, Emily Pender, Siun Murphy, Alexandra Zabarowski, Des Winter, Brian Kirby, Barry Moran, Jean Fletcher (Ireland)

P3.05.64 Role of Tiam1 in finetuning intestinal Foxp3+ regulatory T cells
Susanne Herppich, Lisa Hoenicke, Justine Smout, Friederike Kruse, Jana Niemz, Marina C. Grewelin-Pils, Xiaojing Chu, Bowen Zhang3, Yang Li, Jochen Huehn (Germany)

P3.05.65 The role of γδTCR in mouse and human γδ T cells
Miguel Muñoz-Ruiz¹, Nicolas Veland², Deborah Schneider-Luftman², Annamaria Mavrigiannaki², Duncan Mckenzie², Bethania Garcia-Cassani², Angela Zarco¹, Daniel Davies², Shraddha Kamdar², Adrian Hayday² (¹Spain, ²United Kingdom)

P3.05.66 Evaluation of the role of mucosal associated invariant T-cells in drug-induced immunotoxicity
Georgia Wells, Xiaoli Meng, Dean Naisbitt (United Kingdom)
P3.05.67  Assessment of immunomodulatory effects of compounds on lymphocyte functions in human and rat cell cultures activated with naïve antigens
Patryk Kret (Germany)

P3.05.68  Splicing-aware single-cell RNA-Seq resolution of peripheral blood CD4 T cells
Daniil Lukyanov¹, Evgeny Egorov¹, Valeriia Kriukova², Kristin Ladell³, David A. Price³, Andre Franke², Dmitriy Chudakov¹.⁴.⁵ (¹Russian Federation, ²Germany, ³United Kingdom, ⁴Czech Republic, ⁵United Arab Emirates)

P3.05.69  Long noncoding RNA LIRIL2R modulates FOXP3 levels and suppressive function of human CD4+ regulatory T cells by regulating IL2RA
Syed Bilal Ahmad Andrabji¹, Ubaid Ullah Kalim¹, Senthil Palani¹, Mohd Moin Khan¹, Meraj Hasan Khan¹, Jimmy Fagersund¹, Julius Orpana Orpana¹, Niklas Paulin Paulin¹, Kedar Batkulwar Batkulwar¹, Sini Junttila¹, Tanja Buchacher¹, Toni Grönroos Grönroos¹, Lea Toikka Toikka¹, Tea Ammunét Ammunét¹, Partho Sen Sen¹, Matej Oresic Oresic¹.², Venla Kumpulainen Kumpulainen¹, Johanna Tuomisto Tuomisto¹, Rahul Sinha Sinha², Alexander Marson³, Omid Rasool¹, Laura Elo¹, Riitta Lahesmaa¹ (¹Finland, ²Sweden; ³USA)

P3.05.70  Distinct requirements for CD4+ T cell help for immune responses induced by mRNA and adenovirus vector SARS-CoV-2 vaccines
Lyn Yong, Claire Hutchings, Eleanor Barnes, Paul Klenerman, Nicholas Provine (United Kingdom)

P3.05.72  Antigen recall assays to evaluate the effects of immunomodulatory drugs on adaptive immunity
Lucy Roadknight, Alex Roberts, David Laughton, Barbara Young, Stuart Thomson, John Unitt (United Kingdom)

P3.05.73  Comparison of FOXP3 methylation status using three different methods for Treg stability
Collin Hudzik (USA)

P3.05.74  Exploring the interaction between T-cells and neurons using human cellular models
Diana Cardoso, Lucia Dutan Polit, Laura Sichlinger, Adam Pavlinek, Rebecca Marrow, Elizabeth Gray, Serena Melgrati, Deepak P. Srivastava, Leonie Taams (United Kingdom)

P3.05.75  Enkephalin-mediated modulation of basal somatic sensitivity by regulatory T cells in mice
Aubert Nicolas, Purcaca Madeleine, Novarino Julien, Schopp Julien, Audibert Alexis, Li Wangtianrui, Fornier Marie, Cagnet Léonie, Naturel Marie, Casrouge Armanda, Marie-Caroline Dieu-Nosjean, Blanchard Nicolas, Dietrich Gilles, Cedric Peirs, Gilles Marodon (France)

P3.05.76  Expression of circulating T cells in Type 1 diabetes
Maria Legorreta, Ricardo Michelle Vaquero, Paola Santana Sánchez, Aldo Ferreira-Hermosillo, Angélica Castro-Rios (Mexico)
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P3.05.77 The serine/threonine kinase PIM-3 regulates essential T cell functions
Tobias Frey1, Kristin Schaffer1, Marlene Gerner2, Simone Allram2, Viola Baur1, Anja Wagner1, Johanna Strobi1, Marlene Hollenstein1, Doris Trapin1, Johannes Kovarik1, Bernhard Jank1, Nicholas Campion1, Julia Eckl-Dorna1, Lukas Unger1, Winfried Pickl1, Hannes Kühtreiber1, Michael Mildner1, Franziska Dengler12, Wilfried Eilmeier1, Ci Zhu1, Klaus Kratochwill1, Georg Stary1, Ralf Schmidt1, Lisa Wagar2, Klaus Schmetterer1 (Austria, 2Germany, 3USA)

P3.05.78 Induction of stable human Treg cells from effector CD4+ T cells in vitro
Aness Haddouche, Mustapha Cherai, Clara Cretet-Rodeschini, Baptiste Fouquet, Jehanne Hassan, Gorochov Guy, Makoto Miyara (France)

P3.05.79 Study on the modulation of γδT-cell cytotoxicity at maternal-fetal interface via iKIR-HLA-C axis
Diana Manchorova1, Marina Alexandrova1, Iyaylo Vangelov1, Violeta Dimitrova1, Lyubomir Djerov1, Gil Mor1, Tanya Dimova (Bulgaria, USA)

P3.05.80 Investigating the impact of perfluoroalkyl substances on CD4+T cell differentiation
Ziyu Yang1, Alex Dickens1, Matej Oresic Oresic12 (Finland, Sweden)

P3.05.81 DR3 and GITR agonists as novel therapeutic targets to expand tregs and prevent acute GvHD
Muhammad Daud, Gamboa Vargas Juan, Lang Isabell, Stepanzow Svetlana, Olena Zaitseva, Arellano Estibaliz, Graf Carolin, Shaikh Haroon, Barkey Sophie, Einsele Hermann, Wajant Harald, Andreas Beilhack (Germany)

P3.05.82 Mechanical induction and long-term stability of Treg in MS
Muhammad Qasim1, Jessica White2, Irish Senthilkumar1, Eoin McEvoy1, Denise Fitzgerald2 (Ireland, United Kingdom)

P3.05.83 ISG20L2, an exonuclease that regulates germinal center reaction
Sara G Dosil, Ana Rodríguez Galán, Nieves Fernández-Gallego, Lola Fernández-Messina, Almudena Ramiro, Francisco Sánchez-Madrid (Spain)

P3.06 THERAPY IN AUTOIMMUNITY

P3.06.01 Therapeutic implications of a herbal supplement: a study on alleviating adjuvant-induced rheumatoid arthritis in rats
Mehrdad Mosadegh, Aref Khalkhali, Yasaman Sadeghi, Yousef Erfani (Iran)

P3.06.02 Delayed-type hypersensitivity component of mouse trinitrobenzenesulfonic acid-induced colitis and collagen-induced arthritis is suppressed by extracellular vesicle-carried miR-150
Paulina Skalska, Martyna Cieślak, Angelika Fedor, Magdalena Gębicka, Angelika Domagala, Katarzyna Nazimek, Krzysztof Bryniarski (Poland)

P3.06.03 Characterization of HDM3006, a highly potent and selective leading compound targeting STING for the treatment of systemic lupus erythematosus
Mengting Zhao, Chuan He, Hao Pan, Cancan Cai, Yan Huang, Liubin Guo, Chunhua Jiang, Dongzhou Liu (China)
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P3.06.04  NK CD45RA+ and CTLs CD62L+ as potential diagnostic biomarkers of Rheumatoid Arthritis, with increased expression of immunosuppressive immune checkpoints following ex vivo cell therapy

P3.06.05  Selective CAR-T cell mediated B cell depletion suppresses interferon signature in systemic lupus erythematosus
Artur Wilhelm, David Chambers, Fabian Müller, Aline Bozec, Ricardo Grieshaber-Bouyer, Thomas Winkler, Dimitrios Mougiakakos, Andreas Mackensen, Georg Schett, Gerhard Krönke (Germany)

P3.06.06  Enhanced therapeutic effect of CXCR4/IL10-expressing mesenchymal stromal cells in a preclinical model of inflammatory bowel disease
Mercedes Lopez-Santalla, Marta Covadonga Ordoñez-Velasco, Miriam Hernando-Rodriguez, María Fernandez-Garcia, Juan Antonio Buero, Rosa María Yañez, Marina Garín (Spain, France)

P3.06.07  Impact of caloric restriction in patients with multiple sclerosis treated with oral disease modifying therapy
Alice Verdiani, Marta Pirronello, Silvia D’Orso, Silvia Corbisiero, Beatrice Lista, Corinna Perini, Gisella Guerrera, Manolo Sambucci, Andrea Misiti, Maria Chiara Buscarnu, Fabio Buttari, Federica Isé, Teresa Micillo, Clorinda Fusco, Alessandra Colamatteo, Gianluca Lauritano, Mario Picozza, Fortunata Carbone, Esmeralda Quartuccio, Giuseppe Matarese, Diego Centonze, Marco Salvetti, Claudio Gasperini, Giovanna Borsellino, Luca Battistini (Italy)

P3.06.08  Study of B cells in subjects with multiple sclerosis treated with cladribine
Marta Pirronello, Mario Picozza, Gisella Guerrera, Silvia Corbisiero, Silvia D’Orso, Alice Verdiani, Beatrice Lista, Serena Ruggieri, Esmeralda Quartuccio, Maria Chiara Buscarinu, Francesca De Masi, Carla Tortorella, Marco Salvetti, Claudio Gasperini, Giovanna Borsellino, Luca Battistini (Italy)

P3.06.09  Innate immunity under high efficacy disease modifying therapy
Silvia Corbisiero, Marta Pirronello, Mario Picozza, Andrea Misiti, Alice Verdiani, Silvia D’Orso, Gisella Guerrera, Manolo Sambucci, Beatrice Lista, Elena Olivieri, Serena Ruggieri, Esmeralda Quartuccio, Maria Chiara Buscarinu, Francesca De Masi, Carla Tortorella, Marco Salvetti, Claudio Gasperini, Giovanna Borsellino, Luca Battistini (Italy)

P3.06.10  Characterization of immunomodulatory effects of dental pulp stem cells for therapy in rheumatoid arthritis
Alessandro Rossi, Veronica Galli, Martina Bonacini, Ilaria Ferrigno, Gianluca Carnevale, Rosanna Di Tinco, Maria Grazia Catanofo, Fabio Brandolino, Claudio Galluzzo, Alessandro Zerbini, Carlo Salvareni, Stefania Croci (Italy)

P3.06.11  Investigating the impact of MSC-EVs on B cell responses
Manon Williams, Dessi Malinova, Meadbh Brennan, Pamina Contreras Kallens (United Kingdom, Ireland)
P3.06.12 Methotrexate hampers induction of antigen-specific CD4 T-cells, while TNF inhibitors impede maintenance of antigen-specific B cells in IMID patients following SARS-CoV-2 mRNA vaccination
Laura Kummer, Laura Fernandez Blanco, Christine Kreher, Lisan Kuijper, Veronique Konijn, Tineke Jorritsma, Mariël Duurland, Maryse Tempert, Niels Verstegen, Koos van Dam, Eileen Stalman, Luuk Wieske, Mathieu Claireaux, Marit J. van Gils, Laura Boekel, Gertjan Wolbink, Geert D’Haens, Adrian Volkers, Theo Rispens, Sander Tas, Filip Eftimov, Taco Kuijpers, Anja ten Brinke, Marieke van Ham (Netherlands)

P3.06.13 Defining the effects of IL-23 inhibitors on local and systemic immune responses in psoriasis
Ikram Mezghiche¹, Claire Leclou¹, Ambre Dangien¹, Hanane Yahia¹, Laetitia Camard¹, Natalia Pietrosemoli¹, Claudia Chica², Anne Fourie², Carrie Greving², Barbara Joyce Shaikh², Raphaëlle Parker³, Daniel J. Cua², Benedicte Oules⁴, Sarah Guegan-Bart¹, Sélim Aractingi⁵, Lars Rogge⁶, Elisabetta Bianchi⁷ (¹France, ²USA)

P3.06.14 Mesenchymal stem cells expressing anti-inflammatory and anti-fibrotic neuropeptides: a new advanced therapy for autoimmune myocarditis
Ana Blázquez-Caraballo, Marta Caro, Natividad Martin-Morales, Francisco O’Valle, Jenny Campos-Salinas, Mario Delgado (Spain)

P3.06.15 Targeted modulation of myeloid regulatory cells with prostaglandin E2 ameliorates experimental autoimmune encephalomyelitis and preserves gut microbiota
Marina Bekić, Dušan Radojević, Nataša Radulović, Dušica Stojanović, Miroslav Đinić, Jelena Đokić, Sergej Tomic (Serbia)

P3.06.16 Generation of regulatory T cells from human memory CD4+T cells by upregulation of NKD2 and downregulation of Wnt-β catenin signaling
Jiajun He¹,², Marcus Maurer¹, Stefan Frischbutter¹ (¹Germany, ²China)

P3.06.17 B-cell depletion by a novel “2+1” CD19-targeted T-cell engager (TCE) for the treatment of B-cell related autoimmune diseases
Gang Bian, Huiling Liu, Tengteng Li, Ge Lin, Peng Chen, Jay Mei, Bing Hou (China)

P3.06.18 Effect of extracellular vesicles derived from licensed and unlicensed MSCs on B cell function and activation
Pamina Contreras Kallens¹, Manon Williams², Dessi Malinova², Meadhbh Brennan¹ (¹Ireland, ²United Kingdom)

P3.06.19 Protective properties of dimethyl fumarate on synovial fibroblast function
Aenea Brugman, Dumitru Anton, Carl Orr, Viviana Marzaioli, Douglas Veale, Ursula Fearon (Ireland)

P3.06.20 Parameters of thrombosis risk and percentage of CD4+Foxp3+ regulatory T cells (Treg) after the first three months of baricitinib treatment of rheumatoid arthritis (RA) patients
Magdalena Massalska, Anna Felis-Giemza, Paulina Klimek, Anna Kornatka, Tomasz Burakowski, Magdalena Plebanczyk, Kornelia Chmurzynska, Patrycja Gardias, Weronika Kurowska, Ewa Kuca-Warnawin, Marzena Ciechomska, Wlodzimierz Maslinski (Poland)
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P3.06.21 Bruton’s tyrosine kinase inhibitors tolebrutinib, evobrutinib and fenebrutinib affect neutrophil functions in vitro: implications for treatment of autoimmune disease
Mirre De Bondt, Janne Renders, Paloma Petit de Prado, Nele Berghmans, Noëmie Pörtner, Lotte Vanbrabant, Gayel Duran, Paulien Baeten, Bieke Broux, Mieke Gouwy, Patrick Matthys, Niels Hellings, Sofie Struyf (Belgium)

P3.06.22 Comparison of three assays to quantify serum concentrations of infliximab and adalimumab
Juan López Pérez, Mercedes Inda Landaluze, Luis Martinez-Lostao (Spain)

P3.06.23 Complex immunomodulation by pomegranate-derived ellagitannins
Miodrag Čolić1,2, Marina Bekić2, Sergej Tomić2, Jelena Dokić2, Dušan Radojević2, Katarina Šavkin2, Nataša Miljuš1, Milan Marković2, Ranko Škrbić1 (Bosnia and Herzegovina, Serbia)

P3.06.24 Unique abilities of Acr1 protein of Mycobacterium tuberculosis to elicit Tregs and MDSCs and impart protection against experimental autoimmune encephalomyelitis
Taruna Lamba, Javed Naim Agrewala (India)

P3.06.25 Sialic acid: a novel approach to promote FVIII-specific tolerance
Eleonora Nardini, Brigitte Carole Keumatio, Katarina Olesek, Elko Peterse, Hakan Kalay, Eveline Li, Ernesto Rodriguez Camejo, Yvette van Kooyk (Netherlands)

P3.06.26 Anti-citrullinated histone monoclonal antibody CIT-013 to inhibit eosinophil extracellular trap release
Eline Zwiers1, Daphne Montizaan1, Annemarie Kip1, Kelsy Waaijenberg1, Sameer Mathur2, Paul Fichtinger2, Paul Vink1, Renato Chirivi1, Maarten van der Linden1, Eric Meldrum1 (Netherlands, USA)

P3.06.27 Anti-citrullinated histone antibody CIT-013 is a dual action therapeutic targeting neutrophil extracellular trap-associated pathology in rheumatoid arthritis
Maarten van der Linden1, Annemarie Kip1, Sangeeta Kumari1, Stephanie van Dalen1, Martyn Foster2, Tirza Bruurmijn1, Peter van Zandvoort1, Leonie Middelink1, Maarten Kraan1, Helmuth van Es1, Eric Meldrum1, Renato Chirivi1 (Netherlands, United Kingdom)

P3.06.28 Jakinibs effect on subsets of the innate and adaptative immune system
Juan José Fernández Cabero, Alejandra Comins-Boo, Davis San Segundo, Carmen Lasa-Teja, Ricardo Blanco, Marcos Lopez Hoyos (Spain)

P3.06.29 Which came first, the chicken or the egg? Usefulness of determining total anti-Infliximab antibodies for monitoring biological therapy
Victor Mauricio Bohorquez Cruz, Laura Viñas Gimenez, Maria Teresa Sanz Martinez (Spain)

P3.06.30 Advantages of the TRF-LFIA monotest method for monitoring biological drugs in clinical practice
Victor Mauricio Bohorquez Cruz, Laura Viñas Gimenez, Maria Teresa Sanz Martinez (Spain)

P3.06.31 Gene expression analyses identify biomarkers that distinguish stable and active multiple sclerosis patients treated with fingolimod
Helle Bach Søndergaard, Thor Linnet, Annette Oturai, Ana I.F. Jensen, Melinda Magyari, Jeppe Romme Christensen, Finn Sellebjerg (Denmark)
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P3.06.32 Selective suppression of pathogenic B lymphocytes from Hashimoto’s thyroiditis patients by chimeric protein molecules
Andrey Tchorbanov, Nikola Raichev, Iliyan Manoylov, Nikolina Mihaylova, Irini Doytchinova, Alexander Shinkov (Bulgaria)

P3.06.33 Therapeutic development of target-specific antibody-RNA conjugates in a mouse model of autoimmune myasthenia gravis
Ruksana Huda (USA)

P3.06.34 How format impacts activity: structure-activity relationship for optimal FcRn engagement of Fc-based therapeutics
Ibo Janssens (Belgium)

P3.06.35 Secondary lymphoid organs targeted Interleukin-35 for various autoimmune diseases and inflammation treatments
Jun Ishihara (United Kingdom)

P3.07 THERAPY OF ALLERGY AND HYPERSENSITIVITY

P3.07.01 Treatment of insulin allergy by intranasal Fc-fused preproinsulin
Widad Nefida1, Grégoire Stym_Popper1, Claire Deligne1, Yohan Lorreyte1, Peter Achenbach2, Roberto Mallone3, Sylvaine You1 (1France, 2Germany)

P3.07.02 Immunomodulatory impact of the BanLec-Bet v 1 chimera and its variants on antigen-presenting cells
Isidora Protić Rosić1,2, Bernhard Kratzer2, Zorana Lopandić1, Gordan Blagojević1, Marija Gavrović-Jankulović1, Winfried Pickl2 (1Serbia, 2Austria)

P3.07.03 Long-term immune changes in patients allergic to bee venom undergoing immunotherapy
Paula Álvarez Romero, Raquel Bernardo, Ana Navas, Nadine Blanco Toledano, Aurora Jurado Roger, Berta Ruiz León (Spain)

P3.08 TRANSPLANTATION IMMUNOLOGY

P3.08.01 Influence of the glutathione S-transferase theta 1 antibodies on renal function rates after kidney transplant
Luz Cheilly Mosqueda Jiménez, Sergio Barroso Hernández, María Begoña Vazquez Araujo, Rocio Martínez Gallardo, Román Hernández Galledo, María Luisa Vargas Pérez, Rocio Valencia Pereira (Spain)

P3.08.02 SLC7A5 deletion in T cells or L-leucine restriction in diet efficiently control acute graft-versus-host disease mouse model
Nieves Fernández-Gallego Anaya, Susana Luengo-Arias, Raquel Castillo-González, Amelia Rojas-Gomez, Blanca Ánega, Marta Ramírez-Huesca, Sara Martínez-Martínez, Maider Bizkarguenaga, Rubén Gil-Redondo, Oscar Millet, Julián Aragonés, Francisco Sanchez-Madrid, Danay Cibrian (Spain)
P3.08.03 Reduced ceramides are associated with acute rejection in liver transplant patients and skin graft and hepatocyte transplant mice, reducing tolerogenic dendritic cells

Nayoung Kim (South Korea)

P3.08.04 Following autologous hematopoietic stem cell transplantation decidual-like NK cell subsets are expanded in oncologic patients


P3.08.05 BSA dilutions as a helpful tool to treat background in single antigen luminex

Daniel Arroyo Sánchez, Francisco Javier Gil Etayo, Jairo Eduardo Niño Ramirez, Pilar Terradillos Sánchez, Isabel Jiménez, Ariadna Vicente Parra, Guadalupe Taberneró Fernández, María Pilar Fraile Gómez, Gabriela González Zhindon, Ramón García Sanz, Amalia Tejeda-Velarde (Spain)

P3.08.06 Quantifying HLA mismatches at epitope level in haploidentical hematopoietic stem cell transplantation: impact in the outcome in strategies using PTCy

Francisco Javier Gil, Jairo Eduardo Niño Ramirez, Daniel Arroyo-Sánchez, Marta Fonseca-Santos, Isabel Jiménez, Ariadna Vicente Parra, Pilar Terradillos Sánchez, Miguel Alcoceba, Lucía Lopez-Corral, Ramon García-Sanz, Amalia Tejeda-Velarde (Spain)

P3.08.07 Pharmacodynamic effect of mTOR inhibition-based immunosuppressive therapy on T and B cell subsets after renal transplantation

Xinyi Wei, Sabine Weber, Decheng Yin, Ida Allabauer, Tilman Jobst-Schwan, Michael Wiesener, Mario Schiffer, Diana Dudziak, Christian H.K. Lehmann, Joachim Wölfle, Andre Hörning (Germany)

P3.08.08 Withaferin A suppresses the activation of CD4+ T cells and the following differentiation of B cells

Gukhui Min, Green Kim, Jung Joo Hong (South Korea)

P3.08.09 Enhanced renal tissue regeneration and functional recovery with IL-15 treatment in acute kidney injury

Agnes A. Mooslechner, Konstantin A. Klötzer, Hansjörg Habisch, Tobias Madl, Alexander R. Rosenkrantz, Thomas Bärnthaler, Kathrin Eller (Austria)

P3.08.10 Immunosenescent T-lymphocyte subpopulations are greatly expanded in long-term kidney transplant recipients

Evangelos Memmos, Georgios Lioulis, Efstratios Kasimatis, Aliki Xochelli, Lambros Vagiotas, Vasiliki Nikolaidou, Nikolaos Antoniadis, Georgios Tsoulfas, Maria Stangou, Asimina Fylaktou (Greece)

P3.08.11 QuantiFERON-CMV assay by chemiluminescence immunoassay: Is it more suitable for real-live monitoring of transplant patients?

Raquel Fernandez Moreno, Aurora Paez-Vega, Diego Rodriguez-Cano, Ana Salinas, Fernando Rodriguez-Cantalejo, Aurora Jurado Roger, Julian Torre-Cisneros, Sara Cantisán (Spain)
P3.08.12  HLA compatibility in renal transplantation: next generation sequencing versus low/intermediate resolution methods in our Centre
Ramon García Alaejos, Luz Cheilly Mosqueda Jiménez, Azahara Díaz Lozano, Angela Lucas Blanco, María Begona Vazquez Araujo, Marta Aguilar Criado (Spain)

P3.08.13  Assessment of clinical-laboratory parameters in patients with autoimmune renal disease following transplantation
Elisavet Kontou, Petros Mantzios, Vasiliki Kitsiou, Glykeria Tsouka, Stella Pomoni, Diamanto Kouniaki, Katerina Tarassi, Vasileios Vougas, Maria Darema, Alexandra Tsirogianni (Greece)

P3.08.14  Kidney transplantation with several and repeatedly positive crossmatch: making a leap into the void
Cristina Torres Durán, Primitivo José Buendía Romero, Luis Bravo González-Blas, Natalia Ridao Cano, Jesús Martínez Borra, Antonio Lopez Vazquez, Jose Ramón Vidal Castañeira (Spain)

P3.08.15  Human leucocyte antigen and eplets - A trimolecular docking method for donor selection in renal transplantation
Nidheesh Roy, Elyas K K, Feroz Aziz (India)

P3.08.16  Analysis of the relative immunogenicity of mismatched HLA class I eplets in renal transplantation
Javier Galán Picón, Alberto Gallardo García, Miriam Vilches-Moreno, Joel Gutierrez-Serrudo, Antonio Nieto (Spain)

P3.08.17  Donor organ age correlates with NLRP1 inflammasome activation in immune cells in kidney transplantation
Juan Miguel Suárez-Rivero, Juan López Pérez, Antonio Astorga-Gamaza, Ines Muela-Zarzuela, Raquel de la Varga-Martínez, Aurora Aguilera, Teresa Garcia, Auxiliadora Mazuecos, Mario David Cordero (Spain)

P3.08.18  Donor age have effects on senescence biomarkers in kidney-transplanted patients
Juan López Pérez, Juan Miguel Suárez-Rivero, Ines Muela-Zarzuela, Raquel de la Varga-Martínez, Aurora Aguilera, Teresa Garcia, Antonio Nieto, Auxiliadora Mazuecos, Mario David Cordero (Spain)

P3.08.19  Identification and characterization of ten novel HLA alleles. Evaluation of their role in optimal donor selection in transplantation
Diamanto Kouniaki, Theofilos Athanassiades, Vasiliki Kitsiou, Katerina Tarassi, Alexandra Tsirogianni (Greece)

P3.08.20  Improving lymphocyte purity in flow cytometric crossmatch assays: a comparison of cell isolation methods
Daniel Martí, Alexandra Manchón, Nuria Exposito, Jose Luis Caro, Eduard Palou, Juan Torres Canizales (Spain)

P3.08.21  A novel calculated panel reactive antibody score calculator incorporating HLA-DQB1/DQA1 and DPB1/DPA1 associations: enhancing allocation for organ transplantation in the spanish population
Juan Francisco Luchoro, Jose Luis Caro, Juan Torres Canizales, Montserrat Digon, Nuria Exposito, Silvia Rica, Montserrat Masó, Alexandra Manchón, Maria Dolores Fernández, Nuria Palau, Daniel Lorca-Arce, Eva González, Eduard Palou (Spain)
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P3.08.22 Mononuclear phagocyte system readily responds to allogeneic platelets in a murine model of platelet transfusion refractoriness
Gabriel Rojas Jiménez, Catherine Angénieux, Blandine Maître (France)

P3.08.23 Impact of end-stage lung diseases on the immune cell composition in lung parenchyma
Bellmas-Sanz Ramon, Hitz Anna-Maria, Bettina Wiegmann, Evgeny Chichelmitksiy, Jenny F Kuehne, Wiebke Rackwitz, Jana Keil, Kerstin Beusshausen, Arjang Ruhiparwar, Wiebke Sommer, Gregor Warnecke, Edith Plucinski, Regina Engelhardt, Christina Petzold-Muegge, Lavinia Neuebert, Danny Jonigk, Ius Fabio, Christine Falk (Germany)

P3.08.24 Selective deletion of HLA class I molecules for Improved skin graft compatibility
Laura Cobos-Figueroa, Laura Notario, Carmen Mir, Daniel López, Sara Lazurica, Carlos Molpeceres, Elena Lorente, Pilar Lazurica (Spain)

P3.08.25 Longitudinal dynamics of SARS-COV-2 specific humoral and cellular immune responses in patients on waiting list and after lung transplantation
Melissa Hübner, Jasper Sauer, Louisa Ruhl, Jenny F. Kuehne, Evgeny Chichelmtksiy, Kerstin Beusshausen, Jana Keil, Marion Schael, Tobias Welte, Jens Gottlieb, Ius Fabio, Mark Greer, Christine Falk (Germany)

P3.08.26 Donor T and NK cells with a special tissue-resident memory phenotype migrate into the periphery of lung transplant recipients - a potential feature for tolerance development
Bellmas-Sanz Ramon, Hitz Anna-Maria, Bettina Wiegmann, Jenny F. Kuehne, Evgeny Chichelmitksiy, Theodore Kapellos, Jana Keil, Kerstin Beusshausen, Wiebke Sommer, Kristian Händler, Matthias Becker, Kevin Bassler, Danny Jonigk, Mark Greer, Joachim L. Schultze, Ius Fabio, Gregor Warnecke, Christine Falk (Germany)

P3.08.27 Analysis of the relative immunogenicity of mismatched HLA class I eplets in renal transplantation
Javier Galán Picón, Alberto Gallardo García, Miriam Vilches-Moreno, Jorge Mannelli, Joel Gutierrez-Serrudo, Antonio Nieto (Spain)

P3.08.28 Booster dose of Tozimameran, in renal transplant recipients, is followed by T-cell activation, but not senescence or exhaustion
Stamatia Stai, Georgios Lioulios, Aliki Xochelli, Anastasia Papadopoulou, Evangelia Yannaki, Efstratios Kasimatis, Michalis Christodoulou, Eleni Moysidou, Georgios Tsoulfas, Maria Stangou, Asimina Fylaktou (Greece)

P3.08.29 Calcineurin blockade modifies dendritic cell differentiation and induces a tolerogenic phenotype
Marco Galli, Laura Marongiu, Stefano Cozzi, Giuseppe Rocca, Giulia Stucchi, Anna Celant, Alessia Donato, Ilaria Fontana, Metello Enzo Innocenti, Francesca Granucci (Italy)

P3.08.30 Immune signature profiling in patients with graft-versus-host disease following hematopoietic stem cell transplantation
Leoni Bücken¹, Julika Neumann¹, Adrian Liston², Frédéric Baron¹, Stephanie Humblet-Baron¹ (¹Belgium, ²United Kingdom)

P3.08.31 Non-killer cell immunoglobulin-like receptor profile following allogeneic stem cell transplantation
Basak Sayinalp Arslan, Melek Gunindi Korkut, Füsün Özmen, Yahya Buyukasik (Turkey)
P3.08.32 Phenotypic and metabolic assessment of circulating T-cells in liver transplant recipients enrolled in a biomarker-guided immunosuppression withdrawal trial
Jorge Torres Yaguana¹, Elena Perpiñan¹, Julien Vionnet², Catherine Simpson¹, Hefin Rhys¹, Maria Hernandez-Fuentes¹, Niloufar Safinia¹, Marc Martinez-Llordella¹, Alberto Sanchez-Fueyo¹ (¹United Kingdom, ²Switzerland)

P3.08.32 TUMOR MICROENVIRONMENT

P3.09.01 B cell anti-tumor immune responses in renal cell carcinoma patients
Liat Barak, Shayel Bercovich, Adva Levy-Barda, Avital Sarusi-Portuguez, Ronnie Blecher, Rabab Naamneh, Katharina Imkeller, Shay Golan, Ziv Shulman (Israel)

P3.09.02 Oral squamous carcinoma cells differentiate monocytes into immunosuppressive CD25+CD163+CD206+ macrophages
Hector F. Pelaez-Prestel, Fernando Gonzalez-Martin, Esther M. Lafuente, Pedro A. Reche (Spain)

P3.09.03 Novel human monoclonal antibodies specific to the A33 glycoprotein recognizes prostate cancer
Awatef Ben Jemaa, Chaima Ben Slimen, Ridha Oueslati (Tunisia)

P3.09.04 Preferential deployment of DNA repair pathways: the tumor associated macrophages acting as a coordinator in response to cisplatin treatment in ovarian cancer
Bilash Chatterjee, Amit Srivastava (India)

P3.09.05 Differential predictive value of resident memory CD8 T cell subpopulations in non-small cell lung cancer patients treated by immunotherapy

P3.09.07 Monocytic- and early stage-myeloid derived suppressor cells are expanded in patients with hepatocellular carcinoma and associate with tumor progression
Marta Chivite Lacaba, Alberto Utrero Rico, Iago Justo, Cecilia Gonzalez Cuadrado, Oscar Caso, Patricia Almendro Vazquez, Carlota Cantonad Ruigomez Martin, Angel Alfocea Molina, Esther Mancebo Sierra, Rocío Laguna Goya, Manuel J Del Rey Cerros4, Lorena Pascual Palacios, Manuel Serrano, Oscar Cabrera Marante, Daniel Pleguezuelo, Edgard Rodríguez de Frias4, Estela Paz Artal (Spain)

P3.09.09 To B or not to B in NSCLC: Functional characterisation of tumor infiltrating B cells in NSCLC
Ana Santiso¹, Oliver Kindler¹, Xiaodong Zhu², Sofia Raftopoulou¹, Ingeborg Klymiuk¹, Kathrin Maitz¹, Zala Mihalic¹, A. McGarry Houghton², Julia Kargl¹ (¹Austria, ²USA)
P3.09.10 Rafoxanide negatively modulates STAT3 and NF-κB activity and inflammation-associated colon tumorigenesis. 
_Teresa Pacifico¹, Carmine Stolfi¹, Lorenzo Tomassini¹, Anderson Luiz-Ferreira², Eleonora Franzè¹, Angela Ortenzi¹, Alfredo Colantoni¹, Giuseppe S. Sica¹, Manolo Sambucci¹, Ivan Monteleone¹, Giovanni Monteleone¹, Federica Laudisi¹ (Italy, Brazil)

P3.09.11 High frequency of CD16+ ILT2hi monocytes in colorectal cancer: friend of foe? 
_Ignacio Juarez, Christian Vaquero-Yuste, Marta Molina-Alejandre, Jose Maria Muguerza-Huguet, Cristina Sanchez del Pueblo, Maria Suarez-Solis, Jose Manuel Martin-Villa (Spain)

P3.09.12 Myeloperoxidase alters T cell function and plays an immunosuppressive role in non-small cell lung cancer 
_Ana Lueger, Paulina Valadez-Cosmes, Kathrin Maitz, Nejra Cosic Mujkanovic, Oliver Kindler, Marah Runtsch, Julia Karg (Austria)

P3.09.13 Dysregulated lipid metabolism is a key driver of immunosuppression in ovarian cancer 
_Karen Slattery¹, Donal Brennan¹, Lydia Lynch¹,² (Ireland, USA)

P3.09.14 Immune checkpoint modulation induced by inflammatory cytokines in colon cancer cells 
_Illaria ferrigno, Martina Bonacini, Alessandro Rossi, Cecilia Catellani, Veronica Buia, Carlo Salvarani, Alessandro Zerbini, Stefania Croci (Italy)

P3.09.15 Modelling macrophages-glioblastoma cross-talk in tumor microenvironment 
_Federica Mornata¹, Alessandra Maielli¹, Haralampos Hatzikirou²,³, Friedrich Feuerhake³, Peter Raab³, Benedetta Savino¹, Massimo Locati¹ (Italy, United Arab Emirates, Germany)

P3.09.16 Profiling the immune populations in paediatric brain tumours: the MIMIC program 
_Tiago Carvalheiro, Joyce I. Meesters-Ensing, Raoull Hoogendijk, Mariëtta Kranendonk, Eelco W. Hoving, Friso G. Calkoen, Jasper van der Lugt, Stefan Nierkens (Netherlands)

P3.09.17 Ferroptosis induces immunogenic cell death and reshapes the tumor microenvironment towards improved immunotherapy in hepatocellular carcinoma 
_Wiebke Werner, Aliax Bruneau, Johanna Kusnick, Katharina Detjen, Isabella Lurje, Nicola Beindorff, Frank Tacke, Linda Hammerich (Germany)

P3.09.18 Smoldering inflammation is revealed by the collagen scaffold adaptation and remodeling 
_Luca Vanucci¹, Dmitry Stakheev¹, Pavol Lukac¹, Lenka Rajsiglova¹, Paolo Tenti¹, Daniel Hadraba¹, David Vondrask¹, Gianluca Mucciolo², Paola Cappello³, Renata Stepankova¹, Peter Makovicky¹, Tomas Hucovic¹, Petr Sima¹, Fabian Caja¹, Daniel Smrz¹ (Czech Republic, United Kingdom, Italy)

P3.09.19 Lymphoma B cells express SIRPα and increased SIRPα+ B cells are associated with inferior clinical outcomes in B-cell non-Hodgkin lymphoma 
_Zhizhang Yang, Hye Jin Kim, Xinyi Tang, Prithviraj Mukherjee, Vaishali Bhardwaj, Patrizia Mondello, Stephen Ansell (USA)

P3.09.20 Expression patterns of transforming growth factor beta - related genes in metastatic brain tumours 
_Boncho Grigorov, Antoniya Grirorova, Stefan Valkanov, Ridvan Yusuf, Lyuba Miteva (Bulgaria)
**POSTER SESSION 3**

**P3.09.21** Effect of IFN-gamma on MIF-CD74-related immune pathways in triple negative breast cancer cell lines

Aysenur Kokoglu¹, Ali Abdi¹, Esin Cetin¹, Suhendan Ekmekcioglu², Gunnur Deniz¹
(¹Turkey, ²USA)

**P3.09.22** Tumor specific T cells in acute myeloid leukemia (AML): illusion or reality?

Lisa Aziez, Romain Vazquez, Ismael Boussaid, Ania Alik, Zoé Fremont, Kanchanadevi Manasse, Chloe Friedrich, Marie Templé, Justine Decroocq, Rudy Birsen, Olivier Kosmider, Didier Bouscary, Michaela Fontenay, Nicolas Chapuis, Yannick Simon (France)

**P3.09.23** Oral colistin improves the therapeutic response of tumors to anti-PD1 treatment through an IFN-γ-dependent mechanism

Miloslav Kverka, Anietie Francis Udoumoh, Štěpán Coufal, Michal Kraus, Zuzana Jacková, Tomáš Thon, Tomáš Hrnčíř (Czech Republic)

**P3.09.24** Unleashing NK cell anti-tumor response in prostate cancer by targeting the CXCR4/CXCL12 axis

Federica Portale¹, Marta Iovino¹, Nicolò Morina¹, Marta Pandini¹, Giulia Marelli¹, Roberta Carriero²³, Piergiuseppe Colombo¹, Celia Peano¹, Gianluca Basso¹, Javier Cibella¹, Paolo Kunderfranco¹, Enrico Lugli¹, Massimo Lazzeri¹, Paolo Casale¹, Francesco Cecconi¹², Thomas J. Schmidt³, Jiri Eitler³, Torsten Tonn³, Diletta Di Mitri¹
(¹Italy, ²Denmark, ³Germany)

**P3.09.25** Gene electrotransfer of plasmid DNA encoding chemokines CCL5 and CCL17 combined with irradiation induces immunomodulatory effects in murine tumors

Tim Bozic, Iva Santek, Simona Kranjc Brezar, Gregor Sersa, Bostjan Markelc, Maja Cemazar (Slovenia)

**P3.09.26** Spectral cytometry reveals distinct immunological signature discriminating PDAC from HD patients

Teresa Ruckenbrod, Hartmann Raifer, Magdalena Huber (Germany)

**P3.09.27** Neutrophil plasticity in the tumor microenvironment is dependent on HPV status in irradiated head and neck cancer

Clara Reichardt, Lia Mogge, Devashri Dadawala, Marco Munoz Becerra, Udo Gaipl, Benjamin Frey, Luis Munoz (Germany)

**P3.09.28** Spatial immunoprofiling of the tumor tissue in patients with leiomyosarcomas

Iva Benešová, Andrej Ozaniak, Jan Balko, Vira Tovazhnińska, Michal Rataj, Dominika Galová, Jitka Smetanova, Robert Lischke, Jiřina Bartůnková, Zuzana Ozaniak Střížová (Czech Republic)

**P3.09.29** Exploring the role of mutant Kras-mediated inflammation in endometriosis development using murine models

Shin-Ting Wu, Eing-Mei Tsai, Jau-Ling Suen (Taiwan)
P3.09.32  The role of extracellular vesicles in renal cell carcinoma progression  
Aline Seiko Carvalho Tahyra¹, Leandro Colli², Martin van Royen¹, Guido Jenster¹, Fausto Almeida²  
¹(Netherlands, ²Brazil)

P3.09.33  LYVE-1+ perivascular macrophages represent a therapeutic target in the tumour microenvironment  
Karen T. Feehan, Jit Sarkar, Tik Shing Cheung, Joanne Anstee, Meriem Bahri, James Rosekilly, Cheryl Gillett, Pawan Dhami, James N. Arnold  
(United Kingdom)

P3.09.34  Immunophenotyping in peripheral blood and bone marrow niche of multiple myeloma: focus on innate CD8+ T lymphocytes  
Emma Narbeyuru, Hélène Gardeney, Niels Moya, Arthur Bobin, Anthony Levy, Cecile Gruchet, Xavier Leleu, André Herbelin, Jean-Marc Gombert, Alice Barbarin  
(France)

P3.09.35  Next generation of spatial biology: high-throughput multiplexed Imaging Mass Cytometry™ with whole slide modes  
Qanber Raza¹, Thomas Pfister¹, Liang Lim¹, David Howell², Nikesh Parsotam¹, David King², Christina Loh¹, Dawar Pasha², Gloria Martrus Zapater³  
¹(Canada, ²USA, ³United Kingdom, ²Spain)

P3.09.36  Novel whole slide imaging modes for imaging mass cytometry reveal cellular and structural composition of mouse glioblastoma  
Qanber Raza¹, Thomas Pfister¹, Nick Zabinyakov¹, Nikesh Parsotam¹, David King¹, Liang Lim¹, Christina Loh¹, Dawar Pasha², Gloria Martrus Zapater³  
¹(Canada, ²USA, ³Spain)

P3.09.37  Novel whole slide imaging modes for imaging mass cytometry unveil extensive cellular heterogeneity in human gliomas  
Nick Zabinyakov¹, Qanber Raza¹, Thomas Pfister¹, Nikesh Parsotam¹, David Howell¹, Liang Lim¹, Christina Loh¹, Dawar Pasha², Gloria Martrus Zapater³  
¹(Canada, ²USA, ³Spain)

P3.09.38  Neutrophils-like monocytes increase in patients with colon cancer and induce dysfunctional TIGIT+ NK cells  
Alessia Calabrò¹, Fabiana Drommi¹, Stefania Campana¹, Giacomo Sidoti Migliore², Grazia Ventò¹, Gaetana Pezzino¹, Gregorio Costa¹, Annamaria Petrunegaro³, Eugenia Quartarone¹, Riccardo Cavaliere¹, Guido Ferlazzo¹, Claudia De Pasquale¹  
¹(Italy, ²USA)

P3.09.39  The impact of ER stress on γδ T cells in the tumor microenvironment  
Leonie Schöfltnr¹, Julia Feiser¹, Amalia Sophianidis¹, Lara Ronacher¹, Oliver Nussbaumer², Andrew Hutton², Maurizio Zanetti³, Christof Regl¹, Christina Guttmann-Gruber¹, Stefan Hainzl¹, Iris Gratz¹,³, Giorgia Nasi¹  
¹(Austria), ²United Kingdom, ³USA)

P3.09.40  Stereo-imaging mass cytometry: expansion to 3D of multiparametric single-cell analysis in tissue  
Maria Rita Fumagalli¹, Marco Erreni¹, Damiano Zanini¹, Elena Magrini¹, Raffaella Parente¹, Raffaella D’Anna¹, Federica Marchesi¹, Subhra Kumar Biswas¹, Alberto Mantovani¹,², Andrea Doni¹  
¹(Italy, ²United Kingdom)
P3.09.41 Colorectal cancer microenvironment controls mast cell phenotypical plasticity
Caterina Marangio, Erisa Putro, Alessia Carnevale, Helena Stabile, Silvia Ruggeri, Emanuela Pilozzi, Antonella Stoppacciaro, Roberto Caronna, Marcello Gasparrini, Angela Gismondi, Rosa Molfetta, Rossella Paolini (Italy)

P3.09.42 Siglec ligand-receptor axis: novel insight into extracellular vesicle mediated immunomodulation in colorectal cancer
Anastasija Walsh, Clodagh O'Neill, Seyedmohammad Mosavizadeh, Ellen Donohoe, Lei Lei, Roisin Dwyer, Aideen Ryan (Ireland)

P3.09.43 Exercise-induced extracellular vesicles delay tumor growth by igniting inflammation in immunologically ‘cold’ triple-negative murine breast carcinomas
Agata Mlynska1, Neringa Dobrovolskiene1, Karolina Suveizde1, Gabija Lukaseviciute1, Krizia Sagini1, Beatriz Martin-Gracia2, Silvana Romero2, Alicia Llorente Martinez2, Beatrice Gudaite1, Vita Pasukoniene1 (Lithuania, Norway)

P3.09.44 Xenografting mouse models to study human cutaneous γδ T cells in health and disease
Giorgia Nasi1, Leonie Schöftner2, Oliver Nussbaumer1, Andrew Hutton1, Amalia Sophianidis1, Anshu Sharma1, Christina Guttmann-Gruber1, Stefan Hainzl1, Susanne Kimeswenger1, Monika Ettinger1, Iris Gratz1,3 (Austria, UK, USA)

P3.09.45 Heterotypic 3D cancer spheroids as a controlled modeling platform for studying tumour microenvironment
Egle Zymantaite, Agata Mlynska (Lithuania)

P3.09.46 Role play by endogenous galectin-1 in an experimental model of melanoma
Javier Gutiérrez, Berta Segura-Collar, Ricardo Gargini, Marina Garin (Spain)

P3.09.47 Boosting systemic anti-tumour immunity: the effects of electroporation on proteomic output and immune cell polarization in human ex vivo gastrointestinal cancer explant models

P3.09.49 Stromal cell-mediated immunosuppression: sialylated ligands as orchestrators of immune evasion in colorectal cancer
Norashikin Zakaria, Aoise O’Neill, Hannah Egan, Oliver Treacy, Sean Hynes, Aisling Hogan, Aideen Ryan (Ireland)

P3.09.50 The impact of the STING pathway on the antitumor response of short-term fasting
Raquel Vieira, José Arimatéa de Oliveira Nery Neto, João Vinicius Honório da Silva, Samuell dos Santos Oliveira, Eloisa Martins, Anthony Gabry, Beatriz Leocata, Barbara Padovani, Niels Olsen Saraiva Camara, Rafael Almeida (Brazil)

P3.09.51 Associations between soluble PD-L1/PD-1 and circulating immune cells for prostate cancer progression
Žilvinas Survila, Vita Pašukonienė, Margarita Žvirblė (Lithuania)
P3.09.52 Tumor immune microenvironment in ovarian cancer: advanced flow cytometry reveals B-cells variability and therapeutic potential
Eleonora Capezzali, Martina Arcieri, Carolina Ricci, Stefano Restaino, Silvia Tonon, Laura Mariuzzi, Maria Orsaria, Carlo Pucillo, Giuseppe Vizzielli, Barbara Frossi (Italy)

P3.09.53 Bone marrow immune profiles and their predictive value in multiple myeloma progression and treatment response
Anna Maria Corsale, Marta Di Simone, Mojtaba Shekarkar Azgomi, Emilia Gigliotta, Andrea Rizzuto, Francesca Garofano, Maria Speciale, Miriam Sciortino, Cristina Aquilina, Fulvio Brucato, Giusy Corsale, Francesca Buffa, Nadia Caccamo, Sergio Siragusa, Francesco Dieli, Serena Meraviglia, Cirino Botta (Italy)

P3.09.54 Lymphocyte profile shifts and checkpoint molecule expression in pancreatic cancer patients
Marta Di Simone, Anna Maria Corsale, Miriam Di Caro, Serena Meraviglia, Francesco Dieli (Italy)

P3.09.55 Alternative Treg oxygen responses in the tumor microenvironment
Jacopo Arrigoni, Francesca Simoncello, Lorenzo Drufuca, Carolina Dossena, Mattia Toninelli, Michaela Fakiola, Ramona Bason, Grazisa Rossetti, Massimiliano Pagani (Italy)

P3.09.56 The regulatory effect of curcumin in HER2+ breast cancer
Ava O’Meara-Cushen, Visali Umamaheswari Soundararajan, Eileen Lane, Cathy Brougham (Ireland)

P3.09.57 Functional interplay between autologous T cell, cancer associated fibroblast and tumour associated macrophage cultures in high grade serous ovarian cancer
Caitlin Waddell, Angelica Castaneda, Bethany Potts, Patrick Caswell, Richard Edmondson (United Kingdom)

P3.09.58 To determine the effect of miR-204 overexpression on breast cancer and the impact on immunomodulators
Cathy Brougham (Ireland)

P3.09.59 Tumour metabolites shape Treg chromatin landscape through histone lactylation
Anna Beneggi, Lorenzo Drufuca, Carolina Dossena, Ramona Bason, Michaela Fakiola, Grazisa Rossetti, Massimiliano Pagani (Italy)

P3.09.60 Infiltrating γδ T cells of treatment-naïve patients affected by pancreatic cancer show two different transcriptome profiles
Elena Lo Presti, Francesca Cupaioli, Ivan Merelli, Andrea De Gaetano (Italy)

P3.09.61 IL-33 enhances eosinophil-driven trogocytosis, facilitating the acquisition of immune checkpoint molecules from tumor cells in a receptor-ligand mediated manner
Sara Andreone, Francesca Spadaro, Francesco Noto, Iole Macchia, Mario Falchi, Antonella Tinari, Valentina Pellerito, Davide Vacca, Claudio Tripodo, Silvia Piconese, Claudia Afferni, Fabrizio Mattei, Giovanna Schiavoni (Italy)

P3.09.62 Functional APC-T cell interactions in cancer and autoimmune diseases: a focus on sialylation
Sofia Ibanez Molero, Katarina Olesek, Magali Coccimiglio, Yvette van Kooyk (Netherlands)
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P3.09.63 Antigen cross-presentation in hypoxic tumoral microenvironment is a key element driving CD8+ IL-17 suppressive response
Tiffanie Antonio¹, Berkan Savas¹, Fida Azar¹, Kevin Thierry¹, Zhichong WU¹,², Melissa Masmoudi¹, Anan Hennino¹ (France, ²China)

P3.09.64 Dynamic polarization status of tumour-associated macrophages and NK cells and IL-15 expression in the triple negative breast cancer
Alma Starčević, Damir Grebic, Manuela Avirovic, Petra Valkovic Zujic, Danijela Veljković, Tamara Gulin (Croatia)

P3.09.65 The regulatory link between MITF and VEGFA/FLT1 in melanoma cell lines
Parinaz Mahdavi, Eirikur Steingrimsson (Iceland)

P3.09.66 Identification of potential immune checkpoint biomarkers for human papillomavirus associated cervical cancer
Mariya Alkalbani, Aliya Alansari (Oman)

P3.09.67 Chemotherapy drives tertiary lymphoid structures that correlate with ICI-responsive TCF1+CD8+ T cells in metastatic ovarian cancer
Michal Hensler¹, Jitka Fucikova¹, Tereza Lanickova¹, Lenka Kasikova¹, Jana Drozenova¹, Jan Laco¹, Michal Halaska¹, Ales Ryska¹, Lorenzo Galluzzi², Radek Spisek¹ (Czech Republic, ¹USA)

P3.09.68 Immune spectrum in NSCLC tumor microenvironment using spatial transcriptomics
Ioana Berindan-Neagoe¹, Bica-Pop Cecilia¹, Laura Pop¹, Victor Curean¹, Radu Pirlog¹, Ioana Rusu¹, Ovidiu Laurean Pop¹, Manuela Ferracin², Andreas Bender¹ (Romania, ²Italy)

P3.10 VACCINES

P3.10.03 Specific cellular and humoral response after the third dose of anti-SARS-CoV-2 RNA vaccine in patients with immune-mediated rheumatic diseases on immunosuppressive therapy
Kauzar Mohamed Mohamed, Maria Paula Alvarez Hernandez, Carlos Jimenez Garcia, Kissy Guevara Hoyer, Angela Villegas Mendiola, Teresa Guerra Galan, Alejandro Pereiro Rodriguez, Maria Dolores Mansilla Ruiz, Maria Palacios Ortega, Juliana Ochoa Grullon, Miguel Fernandez Arquero, Silvia Sanchez Ramon (Spain)

P3.10.04 Assessment of lipid nanoparticle (LNP) uptake and its effects on immune cells in hepatocellular carcinoma (HCC)-burdened versus healthy mice
Yanira Zeyn, Paul Schneider, Malin Svensson, Ignacio Berti, German Islan, Benedikt Schober, Mark Helm, Stephan Gehring, Leonard Kaps, Matthias Bros (Germany)

P3.10.05 Mass cytometry unveils baseline and vaccine-induced cellular correlates of immune response variability to SARS-CoV-2 vaccination in the elderly
Ratnadeep Mukherjee, Linn Margrethe Eggesbo, Asia-Sophia Wolf, Ingrid Fadum Kjenstad, Guri Solum, Anthony Ravussin, Sabin Bhandari, Anna Hayman Robertson, Per Magnus, Lill Trogstad, Anja Kristoffersen, Unni Nygaard, Siri Mjaaland (Norway)
P3.10.06 The safety, early lung transcriptional responses and efficacy of differently adjuvanted subunit tuberculosis vaccines after intrapulmonary delivery
Erica Stewart, Claudio Counoupas, Kia Ferrell, Taylor Cootes, Ellis Armitage, Matt Johansen, Shatarupa Das, Philip Hansbro, Nikolai Petrovsky, Warwick Britton, James Triccas (Australia)

P3.10.07 Boosting cell-mediated immunity to *Burkholderia pseudomallei* outer membrane protein antigen with cationic nanoparticles
Jeremy Aboagye, Jorge Huete-Carrasco, Siobhán McClean, Julen Tomás Cortázár, Thomas Courant, Dorothee Neple, Ed Lavelle (Ireland, Switzerland)

P3.10.08 SphB1 is a potential antigen for inclusion in a pertussis mRNA vaccine to prevent nasal infection with Bordetella pertussis and overcome the challenge of emerging PRN-negative strains
Lisa Borkner, Joanne M. O'Hara, Brenda Nguyen, Kimberly L. Carey, Christina Dold, Obadiah Plante, Andrea Carfi, Kingston Mills (Ireland, USA)

P3.10.09 A third Mumps-Measles-Rubella immunization elicits mumps-specific cellular responses in young adults with distinct responses in immune subgroups
Rene Raeven, Maarten Emmelot, Sara Suarez Hernandez, Petra Molenaar, Martijn Vos, Patricia Kaaijk (Netherlands)

P3.10.10 Age differentially impacts SARS-CoV-2 spike-specific adaptive immune responses induced by adenoviral versus mRNA vaccines
Davide Proietto, Beatrice Dallan, Martina De Laurentis, Eleonora Gallerani, Mara Martino, Sara Ghisellini, Amedeo Zurlo, Stefano Volpato, Benedetta Govoni, Michela Borghesi, Valentina Albanese, Victor Appay, Stefano Bonnini, Lacey Sian Llewellyn, Salvatore Pacifico, Laura Grumiro, Simona Semprini, Vittorio Sambri, Kristin Ladell, Helen M. Parry, Paul A.H. Moss, David A. Price, Antonella Caputo, Riccardo Gavioli, Francesco Nicoli (Italy, United Kingdom)

P3.10.11 Using human lymph node culture models to characterize T cell activation dynamics and early immune responses to vaccines
Alex George, Julia Davis-Porada, Jenny Huang, David Chen, Jennifer Hwu, Eric Zhang, Donna Farber, Peter Sims (USA)

P3.10.13 Effectiveness, immunogenicity and safety of the novel DS-5670 vaccine platform against SARS-CoV-2: evidence from two randomized clinical trials
Fumihiko Takeshita, Shoko Nogusa (Japan)

P3.10.14 Clonotypic analysis of T cell responses reveals long-term vaccine efficacy
Xiuyuan Lu, Sho Yamasaki (Japan)

P3.10.15 Non-waning immunity and protection upon a single immunization with a self-boosting vectored vaccine
Henning Jacobsen, Kristin Metzdorf, Yeranddy Aguiar Alpizar, Lara Kelchtermans, Elke Maas, Stephanie Trettel, Peggy Riese, Carlos Alberto Guzman, Kai Dallmeier, Luka Cicin-Sain (Germany, Belgium)

P3.10.16 Micronutrient supplementation supports immune response to seasonal influenza vaccine in mice
Biljana Bufan, Nevena Arsenović-Ranin, Irena Živković, Ivana Ćuruvija, Veljko Blagojević, Jelena Kotur-Stevuljević, Gordana Leposavić (Serbia)
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P3.10.17 BpOmpW antigen administered with CAF01 adjuvant stimulates comparable T cell responses to Sigma adjuvant system
Julen Tomás Cortázár1, Conor Quinn1, Niamh Corcoran1, Alfonso Blanco1 Dennis Christensen2, Siobhán McClean1 (Ireland, 2Denmark)

P3.10.18 Development of a new selection model for selection vaccine candidates against multidrug resistant Staphylococcus aureus
Brenda Vieira1, Giulia Destro1, Maria Eduarda Souza Guerra1, Karina Cruz Melo1, Anders Hakansson2, Michelle Darrieux1, Thiago Rojas Converso1 (Brazil, 2Sweden)

P3.10.19 Evaluation of fimbrial subunits as vaccine candidates against Klebsiella pneumoniae infection in a mouse model of pneumonia
Lucas Assoni, Isabelle B. Ciaparin, Ana Julia M. Couto, Gabriel R. Silva, Vitoria Valim, Thiago Rojas Converso, Michelle Darrieux (Brazil)

P3.10.20 Can Lacticaseibacillus rhamnosus modulate the immune response to inactivated Influenza vaccine in young and old rats?
Marija Petrušić, Veljko Blagojević, Ivana Andelović, Marko Vasić, Luka Dragačević, Irena Živković (Serbia)

P3.10.21 The IL33/ST2 axis negatively regulates vaccine adjuvant induced cell-mediated immunity in a sex-dependent manner
Lorena García del Río, Jorge Huete-Carrasco, Jeremy Aboagye, Dorian Dederko, Kate Roche, Ed Lavelle (Ireland)

P3.10.22 Heterologous Bacillus Calmette-Guérin infection reverts the monocytic myeloid-derived suppressor cell phenotype induced by prior Mycobacterium tuberculosis immunization into innate and adaptive effector cell responses
Arpa Aintablian, Laura Cyran, Haisam Al Attar, Christoph Schön, Nelita du Plessis, Gerhard Walzl, Ulrich E. Schaible, Manfred B. Lutz (Germany)

P3.10.23 Immune stimulating properties of lipid nanoparticle formulations containing a polyethylene-glycol alternative
Semper Raphaela, Dwain van Zyl, Livia Palmerston Mendes, Christine Rueckert, Patrick Baumhof (Germany)

P3.10.24 Delivering SARS-CoV-2 mutated RBD antigens to the CD40 receptor: A strategy for inducing long-term antibody responses
Marwa El Hajj1, Mathieu Surénaud1, Florence Picard1, Guillaume Hypolite1, Amandine Sansoni1, Manon Fabregue1, Sarah Sharkaui1, Camille Pierrini1, Sylvain Cardinaud1, Mireille Centlivre1, Bernard Malissen1, Gerard Zurawski1,2, Ana Zarubica1, Sandra Zurawski1,2, Yves Lévy1, Véronique Godot1 (France, 2USA)

P3.10.25 Functional in vitro B cell assay for Tetanus and Diphtheria containing vaccine batch release using memory B cells from healthy donors
Olga Ticha, Isabell Franz, Svitlana Skoroplyas, Isabelle Bekeredyan-Ding (Germany)

P3.10.26 Staphylococcus aureus-specific TIGIT+ Treg are present in the blood of healthy subjects – a hurdle for vaccination?
Elisabetta Soldaini1, Jonah Clegg1,2, Malgorzata Ewa Mnich1,2, Alberto Carignano1, Giovanni Cova1, Simona Tavarini1, Chiara Sammicheli1, Bruna Clemente1, Megan Smith1,2, Emilio Siena1, Monia Bardelli1, Michela Brazzoli1, Fabio Bagnoli1, Rachel McLoughlin2 (Italy, 1Ireland, 2France)
P3.10.27 Vaccination with BrpA, biofilm regulator Protein A, induce antibodies that affect biofilm formation in Streptococcus mutans
Giulia Destro, Brenda Vieira, Maria Eduarda Souza Guerra, Karina Cruz Melo, Michelle Darrieux, Thiago Rojas Converso (Brazil)

P3.10.28 A T cell inducing prime-boost vaccine for elephant endotheliotropic herpesvirus (EEHV)
Tanja Maehr¹, Javier Lopez¹, Gabby Drake¹, Federico Ferreira², Richard Fraser¹, Susan L. Walker¹, Rebecca McKown¹, Helder Nakaya², Falko Steinbach¹ (¹United Kingdom, ²Brazil)

P3.10.29 The M2SR intranasal H3N2 single replication live influenza virus vaccine induces more potent and broad mucosal secretory IgA response in older adults than the high-dose inactivated FluzoneHD vaccine
Lilach M. Friedman¹, Shelly Shriker¹, Amos Guetta¹, David Marshall², Renee Herber², Pamuk Bilsel², Tomer Hertz¹² (¹Israel, ²USA)

P3.10.30 Leishmania extracellular vesicles mediate protection against cutaneous leishmaniasis
İbrahim Tokmak, İsmail Cem Yılmaz, Muzaffer Yıldırım, Volkan Yazar, Bekir Salih, Ülkü Güler, İhsan Gürsel, İhsan Gürsel (Turkey)

P3.10.31 Saponin-based adjuvants: deciphering the molecular mechanism of QS-21
Alba Mosteiro-Couso, Adrián Plata, Abhijit Saha, Nagore Sacristán, Juan Anguita, Alberto Fernández-Tejada (Spain)

P3.10.32 Distinct cellular and serological cross-reactive responses upon COVID-19 Original/BA.1 bivalent booster vaccination
Sara Suarez Hernandez, Lia de Rond, Marjan Bogaard-van Maurik, Petra Molenaar, Emma van Wijlen, Debbie Oomen, Elske Bijvank, Lisa Beckers, Gaby Smits, Mioara Alina Nicolae, Mardi Boer, Nynke Rots, Alienke Wijmenga, Patricia Kaaikj, Josine van Beek, Cécile van Els, Anne-Marie Buisman, Jelle de Wit, Jolanda Brummelman (Netherlands)

P3.10.34 Monitoring of the immune response against SARS-CoV-2 in patients with common variable immunodeficiency vaccinated with mRNA vaccines
Juan Francisco Gutiérrez-Bautista, Beatriz Fernandez Perea, Lucía Ballesta Alcaraz, María del Carmen Barrera Aguilera, Mónica Bernal, Ana Marin, Pilar Jimenez, Jose Ramón Vilchez, Miguel Ángel López-Nevot (Spain)

P3.10.35 T cell responses to the replication-complex of SARS-CoV-2 remain subdominant in the current landscape of SARS-CoV-2 immunity
Ruairí McErlean, Selin Cankat, Daniel Brown Romero, Gloryanne Aidoo-Micah, Anandita Mathur, Mariana Diniz, Laura McCoy, Leo Swadling, Mala K. Maini (United Kingdom)

P3.10.36 An investigation of immune interference following sequential platform vaccinations in a guinea pig filovirus infection model
Courtney Cohen, Darrell Wetzel, Andrew Herbert (USA)

P3.10.37 Complete cross strain protection against congenital cytomegalovirus by vaccine targeting key components of the virus life cycle that induces antibody and T cell immunity
Alistair McGregor, Nadia El-Hamdi, K. Yeon Choi (USA)
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P3.10.38 Evaluation of the protective efficacy of novel vaccine candidates against Acinetobacter baumannii and Pseudomonas aeruginosa pathogens
Nouran Rezk, Julen Tomás Cortázar, Chaoying Ma, Irene Jurado-Martín, Siobhán McClean (Ireland)

P3.10.39 Cellular immunity against SARS-CoV-2 after different vaccination regimens
Emina Milosevic, Vladimir Perovic, Dusan Popadic, Ljiljana Markovic-Denic, Verica Jovanovic (Serbia)

P3.10.40 Preclinical toxicity and immunogenicity assessment of mRNA vaccine in autoimmune-prone inbred mice
So-hyun Park, Eun Young Oh, Sang-Myeong Lee (South Korea)

P3.10.41 VLP vaccine against SARS-CoV-2: preclinical and clinical evaluation
Irem Evcili, Ismail Cem Yılmaz, Berfu Saraydar Gölcükü, Emre Mert İpekoglu, Tugce Bildik, Aslı Gülce Barton Aksoy, Nilsu Turay, Naz Sürür, Artun Bülbül, Nese Güvencli, Muzaffer Yıldırım, Tugce Canvar Yıldırım, Mayda Gursel, İhsan Gürsel (Turkey)

P3.10.42 Fostering consistency in EV-based vaccine development and clinical trials: advancing towards standardization
Anis Larbi (France)

P3.10.43 QS21 saponin-based adjuvants enhance antibody and T cell responses to various protein antigens
Floriane Auderset, Roland Ventura, Marcelle Van Mechelen, Nicolas Collin (Switzerland)

P3.10.44 Development of semi-synthetic glycoconjugate vaccine candidates against Klebsiella pneumoniae
Fabienne Weber¹, Julinton Sianturi¹, Rajat Kumar Singh¹⁻², Tilman Lingscheid¹, Pinkus Tober-Lau¹, Florian Kurth¹, Bettina Fries², Peter Seeberger¹ (¹Germany, ²USA)

P3.10.45 Developing and optimising a translational, adjuvant-screening pipeline
Utku Gunes, Larissa Camargo da Rosa, Hannah Scales, James Brewer (United Kingdom)
P3.11 VACCINES FOR IMMUNOTHERAPY

P3.11.01 Lynch syndrome-related neoantigens prediction and validation for a dendritic-cell based cancer prevention vaccine
Cristina Bayo Llorens, Giancarlo Castellano, Teresa Ocaña, Rebeca Moreira, Joaquin Castillo, Maria Pellisé, Liseth Rivero, Maria Daca, Oswaldo Ortiz, Manel Juan Otero, Daniel Benitez-Ribas, Francesc Balaguer (Spain)

P3.11.02 Chronic infection induces a neutralizing B cell response to Elastase B of Pseudomonas aeruginosa
Alexandra Albus¹, Dmitriy Holzmann¹, Dominik Kolling¹, Katharina Rox¹, Christina Meyer¹, Robert Brock¹, Julia Kutschera¹, Kristin Schmitt¹, Leon Ullrich¹, Christoph Kreer¹, Meike Meyer-Willerscheidt¹, Michael Hallek¹, Ernst Rietschel¹, Silke van Koningsbruggen-Rietschel¹, Florian Klein¹, Jesko Koehnke¹², Jan Rybniker¹, Alexander Simonis³¹ (Germany, ²United Kingdom)

P3.11.03 Epigenetic inhibitors together with TLR9 agonist elevated IFN response and Th1 immunity
Havva Homak, Banu Bayyurt Kocabas (Turkey)

P3.11.04 mRNA-Encoded SFTSV neutralizing antibodies: evaluation of therapeutic potential
Hyo-Jung Park, Soo-Yeon Lee, Yebeen Lee, Eun Yong Oh, Jae-Yong Kim, Yoo-Jin Bang, Sang-In Park, Eun-Jin Choi, Jisun Lee, Dahyeon Ha, Ayong Oh, Seonghyun Lee, Sue Bean Youn, Jeong Soo Park, Hye Won Kwak, Daegeun Kim, Sang-Myeong Lee, Nam-Hyok Cho, Jae-Hwan Nam (South Korea)

P3.11.05 Recombinant carrier-peptide fusion vaccine for allergen-specific immunotherapy of allergy to cat
Daria Trifonova¹², Mirela Curin, Pia Gattinger¹, Zicheng Liu¹, Kristina Borochova¹, Margarete Focke-Tejkl¹, Marianne van Hage², Jon Konradsen³, Ulrika Käck³, Renata Kiss³, Huey Jy Huang¹, Susanne Vrlata¹, Ksenja Riabova², Antonina Karsonova², Alexander Karaulov², Rudolf Valenta¹² (Austria, ²Russian Federation, ³Sweden)

P3.11.06 Study of Mycobacterium indicus pranii and human beta defensin-2 as a combinatorial therapy against Mycobacterium tuberculosis
Deepak Vats, Faisal Shah, Vidushi Sharma, Archana Singh (India)

P3.11.08 Harnessing sialic acid signaling in dendritic cells for immune tolerance induction
Eveline Li, Eleonora Nardini, Katarina Olesek, Thomas van den Brekel, Brigitte Carole Keumatio, Henk Vietor, Yvette van Kooyk (Netherlands)

P3.11.09 Association of immune checkpoint molecules on recombinant virus-like particle-based tolerogenic vaccines
Julie Marsande, James Vigneron, Alexandre Glastra, Léa Hily, Bertrand Bellier (France)
**P3.12 VIRAL IMMUNOLOGY**

**P3.12.02** Revealing the role of lamin A/C in dendritic cell-mediated antiviral immunity  
**Beatriz Herrero-Fernandez, Raquel Gomez-Bris, Marina Ortega-Zapero, Angela Saez, Salvador Iborra, Virginia Zorita, Ana Quintas, Ana Dopazo, Francisco Sanchez-Madrid, Silvia M. Arribas, Jose M. Gonzalez-Granado,** (Spain)

**P3.12.04** HIV control status is associated with functional changes in memory natural killer cells  
**Alisa Huber, Groenendijk Albert1, dos Santos Jéssica1, Adriana Navas1, Aysel Gurbanova1, Marien de Jonge1, Annelies Verbon1, Mihai Netea1,2, Jan van Lunzen1, Leo Joosten1,3, Andre van der Ven1** (Netherlands, Germany, Romania)

**P3.12.06** High levels of S2-specific IgA antibodies with decreased Fc-effector activity correlate with severe COVID-19  
**Núria Pedreño-López, Ferran Tarrés, Carla Usai, Erola Ainsua-Enrich, Susana Benet, Julieta Carabelli, Edwards Pradenas, Carlos Ávila-Nieto, Núria Roca, Guillermo Cantero, Mónica Pérez, María Luisa Rodríguez de la Concejición, Dalia Raich-Regué, Boris Revollo, Agnes Hernandez, Jorge Abad-Capa, Beatriz Mothe, Marta Massanella, Nuria Izquierdo-Useros, Julià Blanco, Bonaventura Clotet, Joaquim Segalés, Júlia Vergara-Alert, Jorge Carrillo** (Spain)

**P3.12.07** B cell expression of the complement receptor 2 (CR2/CD21) constitutes a novel biomarker for COVID-19 severity  
**Ana Marcos-Jiménez, Pablo Delgado-Wicke, Paula Diaz-Fernández, Nuria Montes, Íris Fernández-Lázaro, Rosa M. Andreu-Martínez, Noelia López, Carlos Cuesta-Mateos, Cecilia Muñoz-Calleja** (Spain)

**P3.12.08** Interleukin-36γ is causative for liver damage upon infection with Rift Valley fever virus in type I interferon receptor-deficient mice  
**Martina Anzaghe, Marc A. Niles, Eugenia Korotkova, Dominguez Monica, Stefanie Kronhart, Ingo Bechmann, Malte Bachmann, Heiko Müh, Georg Kochs, Zoe Waibler** (Germany)

**P3.12.09** Anti SARS-CoV2 properties of quinacrine and its analogues identified from Treg regulators screening  
**Qian Wei, Håvard Foyn, Saskia Meyer, Rafi Ahmad, Jo Klaveness, Johanna Olweus, Gunnveig Grødeland, Kjetil Taskén** (Norway)

**P3.12.10** The impact of infection dose on CD8 T cell diversity and differentiation in acute viral infection  
**Ioana Sandu, Natalia Ramirez Comet, Wenning Zheng, Carmen Gerlach** (Sweden)

**P3.12.11** Higher frequencies of memory natural killer cells and altered specific response to SARS-CoV-2 antigens in the lung from critical COVID-19 patients  
**Paul Nicholas Holmes Antón, Ilya Tsukalov, Ildefonso Sánchez-Cerrillo, María Agudo, Cristina Delgado Arévalo, Olga Popova, Ignacio de Los Santos, Lucio García Fraile, Cecilia Muñoz-Calleja, Arantxu Alfranca, Jose Palacios, Meritxell Genescà, Maria Jose Buzon, Francisco Sánchez-Madrid, Enrique Martín-Gayo** (Spain)

**P3.12.12** Dual blockade with α-PD-L1 and α-TIGIT antibodies restores immune activation on dendritic cells and T-cells during LCMV chronic infection  
**María Lázaro-Díez1, Miguel A. Marín1,2, Valentina Casella1, Laia Bernad Rosa1, Eudald Vehí Piqué1, Ruth Peña1, Gabriel Felipe Rodríguez-Lozano1, Enrique Martín-Gayo1, Andreas Meyerhans1, Julia G Prado1** (Spain, South Africa)
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P3.12.13 ULBP2-expressing HCMV mutants modulate NKG2D expression and function of CD8+ T cells
Greta Meyer, Anna R. Simes, Irina Bevzenko, Jenny F. Kuehne, Jana Keil, Kerstin Beushausen, Karen Wagner, Lars Steinbrück, Eva-Maria Borst, Martin Messerle, Christine Falk (Germany)

P3.12.14 Latent cytomegalovirus infection and age do not affect de novo SARS-CoV-2 specific CD8+ T cell frequencies
Jet van den Dijssel1, Veronique AL Konijn1, Mariël Duurland1, Rivka de Jongh1, Lianne Koets1, Barbara Veldhuisen1, Hilde Raaphorst1, Annelies Turksma1, Julian J. Freen-van Heeren1, Maurice Steenhuis1, Theo Rispens1, C Ellen van der Schoot1, Mariel van Ham1, Rene A.W. van Lier1, Klaas P.J.M. van Gisbergen1, Anja ten Brinke1, Carolien E. van de Sandt1,2 (Netherlands, 2Australia)

P3.12.15 Eucalyptus essential oil inhibits cell infection by SARS-CoV-2 spike pseudotyped lentiviral particles
Sara Alonso Fernández, Hector F. Pelaez-Prestel, Fernando Gonzalez-Martin, Pedro A. Reche (Spain)

P3.12.16 Impact of SARS-CoV-2 vaccine and infection history on antiviral immunity post breakthrough infection
Carla Saade1, Timothée Bruel1, Lou-Léna Vrignaud1, Martin Killian1, Annabelle Drouillard1, Véronique Barateau1, Maxime Espi1, Mariano Natacha1, Charlotte Mignon1, Lily Bruyère1, Liliane Khoryati1, William Henry Bolland1, Bruce Wines2, Mark Hogarth2, Olivier Schwartz1, Bruno Lina1, Martine Valette1, Olivier Thaunat1, Jean-Baptiste Fassier1, Bruno Pozzetto1, Stéphane Paul1, Thierry Walzer1, Sophie Trouillet-Assant1 (France, 2Australia)

P3.12.17 Critical COVID-19 unveils the link between viral particle blood dissemination and prolonged Type I Interferon
Kahina Saker, Marine Mommert-Tripon, Guy Oriol, Laurence Generenaz, Valérie Cheynet, Antonin Bal, Paul Bastard, Jean-Laurent Casanova, Emmanuel Roux, Karen Brengel-Pesce, Aurore Fleurie, Sylvie Pons, Cécile Barnel, Bouchra Mokdad, Florent Wallet, Olivier Terrier, Jean-Christophe Richard, Sophie Trouillet-Assant1 (France, 2Australia)

P3.12.18 The immune landscape of antiviral responses in multiple sclerosis
Silvia D’Orso, Gisella Guerrera, Elena Olivieri, Mario Picozza, Alice Verdiyani, Marta Pirronello, Silvia Corbisiero, Manolo Sambucci, Daniela Angelini, Andrea Misiit, Beatrice Lista, Carla Tortorella, Marco Salvetti, Rosella Mechelli, Maria Chiara Buscarinu, Serena Ruggeri, Claudio Gasperini, Luca Battistini, Giovanna Borsellino (Italy)

P3.12.19 Investigating non-structural proteins (NSPs) as novel targets for a SARS-CoV-2 and pan-coronaviridae vaccination
Ruby Fell, Tracey Haigh, Hannah Bollons, Graham Taylor, Heather Long (United Kingdom)

P3.12.20 Localized immunological memory in cynomolgus macaques following SARS-CoV-2 infection
Green Kim, Taehwan Oh, YoungMin Woo, Bon-Sang Koo, Seung Ho Baek, Eun-Ha Hwang, You Jung An, June-Young Koh, Jinyoung Won, Youngjeon Lee, Choong-Min Ryu, Kyung Seob Lim, Yujin Kim, Jung Joo Hong (South Korea)
P3.12.21 Quicker and greater innate immune responses correlate with disease severity after controlled influenza infection of healthy adults
Loukas Papargyris¹, Jiayun Xu¹, Claire Broderick¹, Pete Dayananda¹, Ashley Collins¹, Min Kyu Park¹, Stephanie Ascough¹, Satwik Kar¹, Helen Wagstaffe¹, Jun Kwun¹, Richard McKendry¹, Emma Bergstrom¹, Lydia Slater¹, Tini Grauwet², Myrsini Kaforou¹, Christopher Chiu¹ (¹United Kingdom, ²Belgium)

P3.12.22 Autoantibodies neutralizing type III interferons are uncommon in patients with severe COVID-19 pneumonia
Martti Vanker, Karita Sarekannu, Liis Haljasmägi, Anne Kallaste, Kalle Kisand, Margus Lember, Pärrt Peterson, Kai Kisand (Estonia)

P3.12.23 Screening and application of SARS-CoV-2 derived T cell epitope spectrum
Yu Zhao, Min Peng, Suyue Zhu, Yandan Wu, Fangping Yue, Ruixue Ji, Yi Wu, Guangyu Zhao, Chuanlai Shen (China)

P3.12.24 Clinical evaluation of HBV-specific T cell reactivity in CHB patients using a broad-spectrum T-cell epitope peptide library and ELISpot assay
Yandan Wu, Ruixue Ji, Min Peng, Yu Zhao, Chuanlai Shen (China)

P3.12.25 Recovery plasma from patients with COVID-19 and intravenous immunoglobulin as rescue passive immunization in SARS-COV-2 infection
Vancho Donev, Georgi Nikolov (Bulgaria)

P3.12.26 Characterization of a VSVΔG S (SARS-CoV-2) hybrid replicating virus as a possible model of mild COVID-19 disease
Brianna Kelly, Nicole Grass, Christa Davis, Jillian Matlock, Jessica Trevors, Christopher Richardson, Saki Sultana, Kimberly Brewer (Canada)

P3.12.27 Coinfection of VSVΔG S (SARS-CoV-2 omicron) and E0771.lmb breast cancer results in novel immune phenotypes and increased tumour volumes
Brianna Kelly, Nicole Grass, Christa Davis, Jessica Trevors, Jillian Matlock, Christopher Richardson, Saki Sultana, Kimberly Brewer (Canada)

P3.12.28 Mutations within the NS1 immunodominant T cell epitopes of the dengue virus serotype-2 cosmopolitan strain resulting in large outbreaks in Sri Lanka
Dinuka Ariyaratne¹, Shyrar Ramu¹, Ayesa Syenina², Diyanath Ranasinghe¹, Chandima Jeewandara¹, Graham Ogg³, Eng Eong Ooi³, Neelika Malavige¹,³ (¹Sri Lanka, ²Singapore, ³United Kingdom)

P3.12.29 B cell populations in COVID-19 and post-acute impaired olfaction
Suvi Jokiranta, Ngoc Anh Nguyen, Xiaobo Huang, Kirsten Nowlan, Tinja Lääveri, Nelli Heikkilä, Anu Kantele, Olli Vapalahti, Eliisa Kekäläinen (Finland)

P3.12.30 Primary antibody response after influenza virus infection is first dominated by HA-stem antibodies followed by HA-head antibodies, which then remain stable over years
Jacco Bakx, Aafke Aartse, Daniella Mortier, Petra Mooij, Mathieu Claireaux, Willy M. Bogers, Ronald Bontrop, Marit J. van Gils, Gerrit Koopman (Netherlands)

P3.12.31 SARS-CoV-2 infection with the Alpha variant B.1.1.7 induced higher levels of IgG antibodies against spike, receptor-binding domain and nucleocapsid than infection with Wuhan-like variants in a Norwegian prospective, longitudinal COVID-19 household study
Gro Tunheim, Marta Baranowska-Hustad, Fridtjof Lund-Johansen, Sabin Bhandari, Liva Kükle, Thea Kristine Rogne Møller, Anna Hayman Robertson, Terese Bekkevold, Fredrik Oftung, Lisbeth Meyer Næss (Norway)
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P3.12.32  Altered frequencies, phenotypes and functions of mucosa-associated invariant T cells and Vδ2+ γδ T cells in patients with severe COVID-19
Julie David, Nawal Taher, Nicole Wood, Eamon Breen, Jacklyn Sui, Angel George, Niall Conlon, Cliona Ni Cheallaigh, William Mc Cormack, Aideen Long, Derek Doherty (Ireland)

P3.12.33  Selective autophagy impedes KSHV entry after recruiting the membrane damage sensor galectin-8 to virus-containing endosomes
Katarina Schmidt¹, Charlotte Montespan¹, Laure-Anne Ligeon¹, Harald Wodrich², Alexander Hahn³, Urs Greber¹, Christian Münz¹ (Switzerland, ²France, ³Germany)

P3.12.34  Reduced specific antibody response to SARS-CoV-2 vaccination associated with high clozapine dosages
Juan Francisco Delgado de la Poza, Itziar Montalvo Aguirrezabala, Albert Rodrigo Parés, Teresa Sagués Junqueras, Antoni Berenguer Llergo, Raquel Rodríguez González, Indira Bhami Blanco, Patricia Pontón Martínez, Germà Julià Agulló, Diego Palao Vidal, Javier Labad (Spain)

P3.12.35  Immune recovery biomarkers in PLWH on long-term cART and CD4AC above 500
Damian Vangelov, Radoslava Emilova, Yana Todorova, Reneta Naydenova, Iivalo Alexiev, Lyubomira Grigorova, Nina Yancheva, Maria Nikolova (Bulgaria)

P3.12.36  Vδ2 T cells effector response in PLWH and PLWoH up to three months from mpox infection
Eleonora Cimini, Eleonora Tartaglia, Andrea Coppola, Stefania Notari, Valentina Mazzotta, Giulia Matusali, Rita Casetti, Germana Grassi, Annalisa Mondi, Alessandra Oliva, Simona Gili, Flavia Cristofanelli, Massimo Tempestilli, Gianluca Prota, Enrico Girdardi5, Fabrizio Maggi, Andrea Antinori (Italy)

P3.12.38  Inflammatory milieu and specific T cells response after three months and one year from SARS-CoV-2 infection
Eleonora Cimini, Claudia Cimaglia, Eleonora Tartaglia, Marta Camici, Stefania Notari, Francesca Colavita, Giulia Matusali, Ilaria Mastrorosa, Valentina Mazzotta, Pierangelo Chinello, Paola Mencarini, Maria Letizia Giancola, Amina Abdeddaim, Rita Casetti, Germana Grassi, Simona Gili, Flavia Cristofanelli, Fabrizio Maggi, Pierluca Piselli, Enrico Girdardi, Chiara Agrati, Andrea Antinori, Alessandra Vergori (Italy)

Moa Bjerhem Viklund, Alexandra Svensson, Marie Studahl, Petra Tunbäck, Christine Lingblom, Azadeh Reyahi, Karolina Thörn, Kristina Eriksson (Sweden)

P3.12.40  TfR-1 as a potential therapeutic target in severe SARS-CoV-2 infection by mitigating macrophage activation syndrome
Hussam Abd El Halim, Wilfried Posch, Stefanie Dichtl-Zweimüller, Guenter Weiss, Doris Wilflingseder (Austria)

P3.12.41  Interleukin-2 responses to whole spike antigen differentiate healthcare workers with frequent symptomatic SARS-CoV-2 infection and asymptomatic infection
Jean Dunne, Liam Townsend, Jacklyn Sui, Carla Sanchez Perez, William Mc Cormack, Gareth Brady, Niall Conlon (Ireland)
P3.12.42 Significance of IgE antibodies against SARS-CoV-2 in different clinical conditions  
Juan Francisco Delgado de la Poza, Indira Bhambi Blanco, María Isabel Aparicio Calvente, Antoni Berenguer Liérgo, Albert Rodrigo Parés (Spain)

P3.12.43 Fluoxetine treatment improves the clinical outcome of age-dependent severe COVID-19  
Davide Marotta, Chiara Perucchini, Marta Grillo, Chiara Malpighi, Valeria Fumagalli, Leonardo Giustini, Violette Mouro, Lorena Donnici, Raffaele De Francesco, Luca Guidotti, Matteo Iannaccone, Marco De Giovanni (Italy)

P3.12.44 In-depth analysis of Respiratory Syncytial Virus-specific Fc-mediated antibody effector functions in children and adults  
Anke Lakerveld, Rutger Schepp, Anne Gelderloos, Nynke Rots, Puck van Kasteren (Netherlands)

P3.12.46 The pathogenesis of MIS-C involves a distinct T cell profile compared to pediatric COVID-19 cases  

P3.12.48 TLR7 deficiency accelerates severe COVID-19 through reduced IRF7 activation and interferon production  
Xuebin Qin, Chenxiao Wang, Shuemei Liu (USA)

P3.12.49 Immunological profile of long COVID patients reveals persistent virus-specific T cell response  
Ben Goodwin¹, Thiago Cerqueira-Silva², Cintia Araujo², Adolfo Hidalgo², Marcião Barreto², Blenda Pereira², Jessica Jesus-Silva², Sara Sara², Ana Barreto², Ananda Marinho², Ricardo Khouri², Vinícius Maracajá-Coutinho², Manoel Barral-Netto², Aldina Barral², Cristina Cardoso², Natalia Tavares², Jennifer Dan¹,², Viviane Boaventura² (¹USA, ²Brazil)

P3.12.50 A new perspective on cellular complement and how opsonized HIV 1 enhances dendritic cell maturation and survival via Mcl-1 stabilization regulated by anaphylatoxin receptors  
Gabriel Diem, Wilfried Posch, Doris Wilflingseder (Austria)

P3.12.51 Latent human cytomegalovirus infection is not associated with decreased vaccine effectiveness against SARS-CoV-2 in patients with stage 5 chronic kidney disease  
Alexander Jerman, Vanja Persic (Slovenia)

P3.12.52 Flow cytometric immune cell subset analyses for the diagnosis of post-COVID syndrome and myalgic encephalomyelitis/chronic fatigue syndrome  
Annick D. Fehrer¹, Sophie Steiner¹, Franziska Sotzny¹, Charlotte Kröger¹, Sandra Bauer¹, Müller Sophie¹,², Lorenzo Bonaguro¹, Claudia Kedor¹, Annika Elisa Stein¹, Kirsten Wittke¹, Leif Erik Sander¹, Joachim L. Schultzke¹, Aschenbrenner Anna¹, Carmen Scheibenbogen¹ (¹Germany, ²Australia)

P3.12.53 An IFNγ-dependent immune-endocrine circuit lowers blood glucose to potentiate the innate anti-viral immune response  
Marko Šestan¹, Sanja Mikašinović¹, Ante Benić¹, Stephan Wueest², Christoforos Dimitropoulos³, Karlo Mladenčić, Mia Krapić¹, Lea Hiršl¹, Yossef Glantzspiegel³, Ana Rasteiro³, Maria Aliseychik³, Đurđica Cekinović Grbeša¹, Tamara Turk Wensveen¹, Marina Babić Čač¹, Irit Gat Viks⁴, Henrique Veiga-Fernandes⁵, Felix Wensveen, Bojan Polić¹ (¹Croatia, ²Switzerland, ³Germany, ⁴Israel, ⁵Portugal)
P3.12.54 Myeloperoxidase and Xanthine oxidase in association with T cell subsets of people living with HIV on cART with sustained viral suppression
Radoslava Emilova, Yana Todorova, Reneta Naydenova, Damian Vangelov, Lyubomira Grigorova, Ivailo Alexiev, Nina Yancheva, Maria Nikolova (Bulgaria)

P3.12.55 Interference with Co-stimulatory molecule ICOSL by human herpesviruses: impact on antigen presentation and immune evasion
Guillem Angulo¹, Martín Messerle², Pablo Engel¹, Ana Angulo¹ (¹Spain, ²Germany)

P3.12.56 Dynamism of anti-SARS-CoV-2 vaccine efficacy studied in mouse model
Peter Nemeth, Monika Soos, Fanni Földes, Timea Berki (Hungary)

P3.12.57 Viral and immune kinetics of non-persistent HPV genital infections in young adult women

P3.12.58 Inflammatory signature as an early predictor of severe respiratory viral infection
Eleonora Olivetta, Ilaria Schiavoni, Annapina Palmieri, Pasqualina Leone, Angelo Carfi, Graziano Onder, Paola Stefanelli, Giorgio Fedele (Italy)

P3.12.59 Human immunodeficiency virus based pseudotype assays overestimate severe acute respiratory syndrome coronavirus 2 neutralising activity in sera from areas of high human immunodeficiency virus prevalence
Mhairi McCormack¹, Louis Banda², Stephen Kasenda², Abena Amoah², Ellen Hughes¹, Chris Davis¹, Agnieszka Szemiel¹, Amelia Crampin², Antonia Ho¹, Brian Willett¹ (¹United Kingdom, ²Malawi)

P3.12.60 High titer against OC43 seasonal coronavirus enhances susceptibility to SARS-CoV-2 infections
Hanna Oppenheimer¹, Shosh Zismanov¹, Lilach M. Friedman¹, Lior Nesher¹, Tomer Hertz¹² (¹Israel, ²USA)

P3.12.61 Differing systemic and mucosal antibody profiles to SARS-CoV-2 in a vaccinated University cohort- revealing increased male salivary anti-Spike IgA and anti–Spike IgG.
John Mac Sharry, Eolann Dinneen, Aideen Long, Mary Horgan, Joshua Flynn (Ireland)

P3.12.62 Guardians of immunity: cytokines, autoantibodies, and lymphocytes in the battle against SARS-CoV-2
Martina Bozhkova, Steliyan Petrov, Teodora Kalfova, Alexandra Baldzhieva, Dobrina Dudova, Katya Vaseva, Mihail Petrov (Bulgaria)

P3.12.63 Mechanisms of mRNA LNP stimulates early innate immune responses further modulating adaptive immunity when co-administered influenza virus vaccine
P3.12.64 Mitochondria mediated immunomodulation associated with SARS-CoV2 pathogenesis
Reshu Saxena, Sumit Kumar Sharma (India)

P3.12.65 Thymic function associated with the extent of viral reservoir and inflammatory status in CD4-recovered people living with HIV
Vanessa Garrido-Rodríguez, Ángel Bulnes-Ramos, Israel Olivas-Martínez, María del Mar Pozo-Balado, Francisco Tejerina-Picado, Félix Gutierrez, Cristina Marco-Sanchez, Juan Manuel Tirbasbochi, Antonia Castillo-Navarro, Enrique Bernal, María del Carmen García-Guerrero, Mari Carmen Puertas, Joaquim Peraire, Anna Rull, Javier Martínez-Picado, Yolanda M. Pacheco (Spain)

P3.12.66 Long-term immunologic and inflammatory changes of simplification to 2DR versus maintenance of 3DR
Abraham Saborido Alconchel, María Trujillo Rodríguez, Ana Serna Gallego, Esperanza Muñoz Muela, Ana Álvarez Ríos, Nuria Espinosa, Cristina Roca, Marta Herrero, César Sotomayor, Alicia Gutierrez, Luis Fernando López-Cortés (Spain)

P3.12.67 Longitudinal analysis of SARS-CoV-2 immunity in patients with head and neck carcinoma (HNC)
Luminita Marutescu, Alexandru Enea, Nefeli-Maria Antoniadis, Elena Dragu, Marcela Popa, Diana Antonia Costea, Marian Neculae, Elena Codrici, Gratiela Gradisteianu, Violeta Ristoiu, Carmen Chifiriuc, Veronica Lazar, Raluca Grigore, Petronela Ancuta (Romania, Canada)

P3.12.68 Defective interfering genomes reduce complement-mediated lysis of cells infected with parainfluenza virus 5
Jenna Aquino, Elisabeth Shiffer, Griffith Parks (USA)

P3.12.69 High-affinity-mediated viral entry triggers innate affinity escape resulting in type I interferon resistance and impaired T cell immunity
Piyush Pandey, Haifeng Xu, Harry Ward, Michal Gorzkiewicz, Dzuljeta Abromaviciute, Constanze Tinz, Aleksandra Pandya, Arndt Borkhardt, Karl Lang, Philipp Lang (Germany, Poland)

P3.12.70 Assessment of interferon alpha treatment response dynamics in COVID-19 PBMCs
Juber Herrera Uribe, Fiona Roche, Karsten Hokamp, Yamei Zhang, Lowela Onggo, Cliona Ni Cheallaigh, Patrick Ormond, Colm Bergin, Nigel Jhon Stevenson (Ireland)

P3.12.71 Assessment of immunological background and prediction of post-COVID syndrome by extracellular vesicle profiling
Gabriella Dobra, Edina Gyukity-Sebestyen, Matyas Bukva, Szabolcs Nyiraty, Barbara Bordacs, Zoltan Szabo, Gabor Kecskemeti, Tamas Varkonyi, Marta Szell, Zoltan Konya, Peter Horvath, Krisztina Buzás (Hungary, Germany, Finland)

P3.12.72 Immunological modulation in European sea bass (Dicentrarchus labrax) brain and head-kidney upon infection with nervous necrosis virus
Antonia Efstathiou, Dimitra K. Toubanaki, Odysseas P. Tzortzatos, Evdokia Karagouni (Greece)

P3.12.73 Identifying polio antibody binding signatures are associated with protective poliovirus neutralization titers
Mor Tetro, Lilach M. Friedman, Merav Weil, Aharona Freedman, Ravit Bassal, Javier Martin, Lester M. Shulman, Tomer Hertz (Israel, United Kingdom, USA)
P3.12.74 Understanding cross-reactive antibody responses to SARS-CoV-2  
Vennesa Subbiah, Thandeka Moyo-Gwete, Jo-Ann Passmore, Penny Moore, Ntobeko Ntusi, Linda-Gail Becker, Wendy Burgers, Rubina Bunjun (South Africa)

P3.12.75 The role of CCL3, CCR1 and CCR5 in protective antiviral immunity  
Daniel Quinn (Sint Maarten - Dutch Part)

P3.12.76 Replication kinetics of SARS-CoV-2 variants and transcriptomic profiling of innate immune cells  
Mihaela Kordun, Željka Maćak Šafranko, Kristijan Bodulić, Alemka Markotić, Lidija Cvetko Krajnović (Croatia)

P3.13 VISUALIZING IMMUNE RESPONSE

P3.13.01 Mathematical modeling of IL-6 driven T lymphocyte cross-talk for the selection of treatment modality in rheumatoid arthritis patients  
Nona Janikashvili, Nino Nanava, Zviad Kalichava, Vladimir Odisharia, Tinatin Chikovani (Georgia)

P3.13.02 Using bioorthogonal chemistry to measure single immune cells metabolic fluxes  
Xinyuan Wang¹, Connor Corrigan¹, Sander van Kasteren², Linda Sinclair³, David Finlay¹ (¹Ireland, ²Netherlands, ³United Kingdom)

P3.13.03 Exploring small vulnerable newborn immune development in urban Burkina Faso: novel biospecimen collection procedures for flow cytometry in low-income settings  
Lionel Olivier Ouedraogo, Simon J. Tavernier, Laetitia Celine Toé, Carl Lachat, Filomeen Haerynck, Trenton Dailey-Chwalibóg (Belgium)

P3.13.04 Linking effector CD4+ T cell dynamics and response to pathogen proliferation  
Ina Sauerland, Yan Fu, Andreas Müller (Germany)

P3.13.05 Role of regulatory T cells in the cellular immune response to influenza vaccine in older adults  
Monica Espinar García, Isabel María Vallejo Bermúdez, Maria Ángeles Onieva, Ester Irene Reina Alfonso, Pablo Álvarez Heredia, Carmen María Gutiérrez González, Fakhri Hassouneh, Inmaculada Salcedo, Alejandra Pera Rojas, Alexander Batista Duharte (Spain)

P3.13.06 Establishment of a highly sensitive live-cell imaging-based cytotoxicity assay for functional validation of rare epitope-specific CTLs  
Kathrin Wellach, Angelika Riemer (Germany)

P3.13.07 Human iPSC-derived cerebral organoids as neuroinflammation models  
Juan Hidalgo de Quintana¹, Zhen Qi², Idil Ariz³, Rosanna Zhang² (¹United Kingdom, ²USA, ³Switzerland)
P3.13.08  Predict the response to CD3xBCMA bispecific immunotherapy in multiple myeloma
Nicolas Dereder, Lisa Aziez, Ismael Boussaid, Patricia Franchi, Michaela Fontenay, Lise Willems, Olivier Kosmider, Justine Decroocq, Rudy Birsen, Didier Bouscary, Nicolas Chapuis, Marguerite Vignon, Yannick Simoni (France)

P3.13.09  Spatially resolved single-cell metabolic profiling of the melanoma tumor microenvironment using Multiplexed Ion Beam Imaging (MIBI)
Sven Truxa, Wiecken Melanie, Hassel Jessica, Hartmann Felix (Germany)

P3.13.10  Characterizing the immunometabolism of both the tumor microenvironment and tumor cells at the single-cell level in leukemia
Ekaterina Popova, Bailey Leadford, Antoine Monteiro, Lisa Aziez, Ismael Boussaid, Rudy Birsen, Michaela Fontenay, Didier Bouscary, Nicolas Chapuis, Yannick Simoni (France)

P3.13.11  Multiplex immunoassays to visualize immune responses in large population-based cohort studies to increase pandemic preparedness, support disease modelling/eradication and define prevalence of climate sensitive infections
Manuela Harries, Daniel Junker, Matthias Becker, Patrick Marsall, Tanja Michel, Carolina Klett-Tammen, Barbara Kessel, Nathalie Fernández Villalobos, Max Hassentein, Julia Häring, Rodiah Isti, Gerard Krause, Stefanie Castell, Lange Berit, Alex Dulovic, Nicole Schneiderhan-Marra, Monika Strengert (Germany)

P3.13.12  Biomechanics of macrophages during interaction with extracellular stimuli
Massimiliano Galluzzi, Zixin Huo, Diana Boraschi (China)

P3.13.13  Antiviral immunity revealed by B cell ImmunoSpot informs immunity to future viral exposures
Stephen Todryk\(^1,2\), Georgia Stylianou\(^1\), Zhigang Liu\(^2\), Yong Gao\(^2\), Noemi Becza\(^2\), Jack Chepke\(^2\), Xing-Xuang Gao\(^2\), Paul Lehmann\(^2\), Greg Kirchenbaum\(^2\) (United Kingdom, USA)

P3.13.14  Designing in vitro platforms to study transendothelial T cell migration in colorectal cancer
David Bartolomé Català, Jordi Comelles, Aina Abad, María García-Díaz, Elena Martínez (Spain)

P3.13.15  Reovirus evasion mechanism from cytotoxic T cell inhibits clearance of tumor cells
Raghad Raghad Khaleaf (Israel)

P3.13.16  Lymphoid tissue-on-chip to test T cell-dependent antibody responses and vaccine efficacy in vitro
Claudia Teufel\(^1\), Anna-Sophie Schlemmer\(^1\), Andrea Eiken\(^1\), Dennis Vöhringer\(^1\), Eduardo J.S. Brás\(^1\), Lisa Wagar\(^2\), Peter Loskill\(^1\) (Germany, USA)

P3.13.18  Real-time imaging of immune cell response mechanisms following the injection of a small molecule drug in the tumor microenvironment
Jinwoong Kim, Kubra Akyildiz, Terence Lee, Hyungjin Kwon, Hyunseok Kim (South Korea)
P3.13.19 Improving animal welfare by development of an in vitro model to identify complement activation in pre-clinical species
Simone Arienti, Mahnoush Bahjat, Patrik Andersson, Catherine Betts (United Kingdom)

P3.13.20 Automated method to measure frequency of T-cell response
Tara Dalton, Eric Dalton, Graham Taylor, Danielle Grehan, Abir Sakly, Paul Murray (United Kingdom)

P3.13.21 Co-culture of THP-1 cell line to screen phagocytosis with STZ-induced diabetic 1.1B4 cell line
Ceren Bozkurt, Ozgur Albayrak, Farinaz Jafari Ghods, Adeliya Temirbek, Burcin Aydin Ozgur, Amirhooman Asadi, Oguzhan Deyneli, Dilek Yazici, Yildiz Tutuncu (Turkey)

P3.13.22 Targeting the osteoclastogenic cytokine IL-9 as a novel immunotherapeutic strategy in mitigating inflammatory bone loss in post-menopausal osteoporosis
Leena Sapra, Rupesh Srivastava (India)

P3.13.23 Adverse immunostimulation in early-phase clinical research: lessons learned from 3 early-phase clinical trials
Marel van Ruissen, Juliette van den Noort, Manon Jansen, Naomi Klarenbeek, Matthijs Moerland (Netherlands)

P3.13.24 Vascular characterization of redness and swelling as hallmarks of inflammation in LPS-driven dermal inflammatory responses in healthy volunteers
Marel van Ruissen, Mihir Kapadia, Liza Botros, Manon Jansen, Robert-Jan Doll, Matthijs Moerland (Netherlands)

P3.13.25 Enhanced assay reliability: advanced negative control Dextramer® reagents in antigen-specific T cell detection
Dilek Inekci, Liselotte Brix, Thomas Holberg Blicher (Denmark)

P3.13.26 Revolutionizing multiplexed protein profiling: dual-reporter capabilities of Luminex xMAP® technology
Ronald Backer, Ruud Jorna, Sherry Dunbar, Stephen Angeloni (USA)

P3.13.27 Characteristics and dynamics of autoantibodies against cardiac antigens in patients hospitalised for acute heart failure – the prospective AHF-immunomonitoring cohort study
Boshra Afshar, Dora Pelin, Maximilian Bauser, Mairin Heil, Thomas Kerkau, Wafaa Al-Hassan, Hanna Hepp, Elisa Kaiser, Janna Lamers, Jannika Paetkau, Fabian Kerwagen, Gustavo Ramos, Ulrich Hofmann, Stefan Frantz, Stefan Störk, Niklas Beyersdorf, Caroline Morbach (Germany)

P3.13.28 Acid ceramidase expression reduces IFNγ secretion by CD4+ T cells and maintains B cell numbers in mice
Rehan Haider Zaidi, Putri Mandasari, Claudia Hollmann, Samira Löw, Jann Schrama, Dominik Wigger, Fabian Schumacher, Burkhard Kleuser, Niklas Beyersdorf (Germany)

P3.13.29 Characterising MAIT cells using MR1 and TCR dextramer reagents
Thomas Holberg Blicher, Bjarke Endel Hansen, Kivin Jacobsen, Liselotte Brix (Denmark)
POSTER SESSION 3

P3.13.30 An optimized fluorescent 9-plex spatial proteomics workflow enables single cell quantification within human invasive ductal carcinoma (IDC) breast cancer research Nancie Mooney, Kristi Hamilton, Austin Harvey, Oggie Golub, Edward Parkin (USA)

P3.13.31 Development of a high-throughput image cytometric screening method as a research tool for immunophenotypic characterization of human samples from clinical studies Bo Lin, Leo Chan (USA)
INDUSTRY SESSIONS - MONDAY, 2 SEPTEMBER 2024

WICKLOW HALL 2 | 07:30-08:30
BECKMAN COULTER LIFE SCIENCES MEET THE EXPERT

How the NEW CytoFLEX mosaic spectral module can improve studies on immunosenescence and vaccine efficacy
Domenico Lo Tartaro (Italy), Fanuel Messaggio (USA)

LIFFEY MEETING ROOM 3 | 07:30-08:30
THERMO FISHER SCIENTIFIC MEET THE EXPERT

LIFFEY HALL 1 | 12:50-14:05
CYTEK LUNCH SYMPOSIUM

The Balancing Act Between Number of Colors and Data Quality: Lessons Learned from Human Memory T Cells
Alberta Paul (USA)

LIFFEY MEETING ROOM 2 | 12:50-14:05
BIOLEGEND LUNCH SYMPOSIUM

Optimized immunophenotyping with high dimensional spectral flow cytometry panels
Carsten Wiethe (Germany)

LIFFEY MEETING ROOM 3 | 12:50-14:05
THERMO FISHER SCIENTIFIC INDUSTRY LUNCH SYMPOSIUM

Booth D05 | 10:00-10:15
BD BOOTH TALK

Improving resolution and unveiling biology with spectral flow cytometry
Robert Balderas (USA)
CONQUERING CHALLENGES WITH IMMUNOLOGY

EUROPEAN CONGRESS OF IMMUNOLOGY

DUBLIN  IRELAND  SEPTEMBER

EC I 2024