

ECI 2024

DUBLIN 1-4 SEPTEMBER

7th EUROPEAN CONGRESS OF IMMUNOLOGY

PRELIMINARY PROGRAMME

7th EUROPEAN CONGRESS OF IMMUNOLOGY
DUBLIN | IRELAND | 1-4 SEPTEMBER 2024
CONQUERING CHALLENGES WITH IMMUNOLOGY



Irish Society
for Immunology



European Federation of
Immunological Societies

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 Ludvíksson** (*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 Rivellesse** (*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

MONDAY, 2 SEPTEMBER 2024

WICKLOW HALL 2 | 08:30-09:45

WORKSHOP 1 - ALLERGY AND ASTHMA

- 08:30
WS1.1 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
WS1.2 Development of an in vivo model of IgE-mediated allergy
Caterina Vizzardelli, Alessio Gentile, Eva Untersmayr, Alex Farr, Barbara Bohle (*Austria*)
- 08:50
WS1.3 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
WS1.4 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 (¹*Belgium*, ²*Poland*)
- 09:10
WS1.5 Heterogeneous ILC responses in severe asthma patients undergoing anti-IL5/5R α therapy
Kyle Mincham, Lola Loewenthal, Garance Meyer, Martina Marfia, Minerva Garcia Martin, Pujan Patel, Clare Lloyd, Robert Snelgrove (*United Kingdom*)
- 09:20
WS1.6 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

MONDAY, 2 SEPTEMBER 2024

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 (¹Germany, 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 (¹Serbia, ²Belgium)
- 08:50**
WS2.3 A novel role for itaconate in trained immunity and myeloid cell-mediated hypercoagulability
Aisling Rehill¹, Tristram Ryan¹, Anna Ledwith¹, Gemma Leon¹, Emily Day¹, Corrina McMahon¹, James O'Donnell¹, Annie M Curtis¹, Frederick Sheedy¹, Luke O'Neill¹, Roger J. S. Preston¹ (Ireland)
- 09:00**
WS2.4 Trained immunity and inflammasome activation as effective approaches against *Staphylococcus aureus* infections
Emmanuel Chaumond¹, Elma Lima Leite^{1,2}, Sandrine Peron¹, Nathalie Daniel¹, Yann Le Gouar¹, Aurelie Nicolas¹, Tonin Kratchkovsky¹, Jordane Ossemond¹, Arthur Gautron¹, David Gilot¹, Vasco Azevedo², Gwenael Jan¹, Eric Guedon¹, David Williams³, Michael Otto³, Yves Le Loir¹, Nadia Nadejda Berkova¹ (¹France, ²Brazil, ³USA)
- 09:10**
WS2.5 Trained immunity drives neutrophil reprogramming providing protection against pneumococcal sepsis
Charly Gilbert¹, Tiia Snäkä¹, Maelick Brochut¹, Charlotte Theroude¹, Marta Reverte¹, Didier Le Roy¹, Thierry Roger¹ (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 Debajyoti¹, Jacqueline Cédric¹, Mitra Ashayerippanah², Pierre Martin¹, Marion Davieau¹, Léa Boutin¹, Cécile Poulain¹, Florian P. Martin¹, Cynthia Fourgeux¹, Mélanie Petrier¹, Maeva Guillonnet¹, Laurent Legenti¹, Vincent Ferrieres¹, Fathia Mami-Chouaib¹, Jean François Mosnier¹, Nicolas Mauduit¹, Hamish McWilliam², Jose Villadangos², Pierre Antoine Gourraud¹, Jérémie Poschmann¹, Antoine Roquilly^{1,2} (¹France, ²Australia)
- 09:30** Discussion

MONDAY, 2 SEPTEMBER 2024

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 Netea^{2,3}, Quirijn de Mast³ (¹Tanzania, ²Germany, ³Netherlands, ⁴Italy)
- 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 (¹Germany, ²Netherlands)
- 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 (¹Brazil, ²USA)
- 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, Gustaw 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 Bondareva^{1,2}, Iaroslav Semin¹, Natalia Sharanova², Pawel Durek¹, Sergei Nedospasov², Mir-Farzin Mashreghi¹, Andrey Kruglov¹ (¹Germany, ²Russian Federation)
- 09:30** Discussion



MONDAY, 2 SEPTEMBER 2024

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, Edouard Leveque¹, Heleen Dewitte², Emmanuel Mbida², Emilie Maure, Cyprien Pecalvel¹, Roland Liblau¹, Nicolas Gaudenzio¹, Laurent Reber¹ (¹*France*, ²*Belgium*)
- 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 Mavileti², Valentyn Utko³, Evgenia Bila³, Manuela Calin¹, Elena Butoi¹, Tamaki Kato², Shyam Pandey², Rostyslav Bilyy^{1,3} (¹*Romania*, ²*Japan*, ³*Ukraine*)
- 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 PDGFR α 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 Dorfmueller², 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 Sande, 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

MONDAY, 2 SEPTEMBER 2024**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 Boxnick, 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 Siegmars Sachweh, Eva Tolosa, Anna Gieras (*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 Willicombe, Maria Predecki, David Thomas, Amit Patel, Lucinda Billingham, Amanda Kirkham, Pamela Kearns, Jordan Rolt, Barbara Kronsteiner-Dobramysl, Paul Klenerman, Susanna Dunachie, Nicholas Provine, Eleanor Barnes, OCTAVE DUO Study (*United Kingdom*)
- 08:50**
WS6.3 Celluloeidemiology - 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 Vercauteren, 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-Bataller^{1,2}, 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 Netea², Andre van der Ven², Yang Li^{1,2} (*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 Noh 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 Alanio¹, Cecile Artaud¹, Mamadou Diop², Milena Hasan¹, Muriel Vray², Amadou Sall², Cheikh Loucoubar², Lluís Quintana-Murci¹, James Di Santo¹, Fabien Taieb¹, Aissatou Toure¹, Ronald Perraut¹, Darragh Duffy¹ (*¹France, ²Senegal*)
- 09:30** Discussion

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ECOCHEM 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 Toribio^{1,2}, Lizzie Tello², Javier A. Bustos², Gianfranco Arroyo², Manuela Verastegui², Hector H. Garcia^{2,3} (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 Efsthathiou, Maria Agallou, Dimitra K. Toubanaki, Evdokia Karagouni (Greece)
- 09:20**
WS7.6 Leishmania mexicana-infected Lutzomyia longipalpis sand flies induce inflammasome derived IL-1 β in C57/BL6 mice
Somaditya Dey^{1,2}, Eva Iniguez¹, Cláudio 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 Luísa 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: **Stefanía 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

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

- 10:30
WS8.1 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
WS8.2 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
WS8.3 Role of NK cell circadian clock in Influenza pathogenesis
Shaon Sengupta, Oindrila Paul, Mahendra Padmini, Kaitlyn Forrest, James Garifallou (USA)
- 11:00
WS8.4 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
WS8.5 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
WS8.6 Molecular regulation of innate lymphoid cell type 2 in inflammatory lung disease
Wen Jie Yeoh, Kristyna Hlavacková, Philippe Krebs (Switzerland)
- 11:30 Discussion

MONDAY, 2 SEPTEMBER 2024**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 Stephane, 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- κ B pathway in microglia
Alexander Johannes Zähringer¹, Sangya Chatterjee¹, Janaki Manoja Vinnakota¹, Daniel Erny¹, Rachael Claire Adams^{1,2}, 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, Sigurveig 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 β 7+ 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, Malyvanh 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 Aldabbagh, 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-Emmanuele 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 Zenker, 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 Akoi Bore¹, 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



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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 (*¹Ireland, ²United 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 The impact of reactive oxygen species on alpha-1 antitrypsin efficacy in wound healing: insights from pre-clinical models
Lihie Sheffer, Idan Farber, Eli Lewis, Eldad Silberstein (Israel)
- 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 Pierre^{1,2}, Catarina Almeida¹ (*¹Portugal, ²France, ³Australia*)
- 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, Achilles 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 Fusco¹, Kristyna Ruggiero¹, Ilaria Spatocco¹, Giorgia Mele¹, Claudio Russo¹, Giusy De Rosa¹, Alessandra Colamatteo¹, Francesca Di Candia¹, Enza Mozzillo¹, Claudio Procaccini¹, Giuseppe Matarese¹, Mario Galgani¹, Paola de Candia (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 (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 (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 (Italy)
- 11:10**
WS12.5 Regulatory functions of redox processes during host-pathogen interactions in tuberculosis
Benthe Beu¹, Tobias Dallenga¹, Ilana Braunstein², Moran Benhar², Ulrich E. Schaible¹ (¹Germany, ²Israel)
- 11:20**
WS12.6 Disentangling the heterogeneity and differentiation process of CD11c+ B cells
Alan Courey-Ghaouzi¹, Linn Kleberg¹, Maximilian Julius Lautenbach¹, Girish Malagi¹, Zaynab Mousavian¹, Ganesh Phad², Mattias Forsell¹, Anna Färnert¹, Christopher Sundling¹ (¹Sweden, ²Switzerland)
- 11:30** Discussion

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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 Lécuroux¹, Laurence Delbos¹, Jérémie Poschmann¹, Cynthia Fourgeux¹, Arnaud Bourreille¹, Catherine Le Berre¹, Caroline Trang¹, Théo Soudé¹, Juliette Podevin¹, Jean-François Mosnier¹, Cécile Girard¹, Miriam Merad², Samarth Hedge², Clotilde Hennequin², Jessica Le Berichel², Saurabh Mehandru², Pablo Canales-Herrerias², Ephraim Kenigsberg², Jérôme Martin¹ (¹France, ²USA)
- 11:00**
WS13.4 IL4 prevents the gluten-induced inflammation in the gut mucosa of children with potential celiac disease
Iliaria 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, M^a 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

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ECOCHEM ROOM | 10:30-11:45

WORKSHOP 14 - TRANSPLANTATION IMMUNOLOGY

- 10:30**
WS14.1 CXCR4 blockade reduces the severity of murine heart allograft rejection by plasmacytoid dendritic cell-mediated immune regulation
Jian Fu^{1,2}, Christian H.K. Lehmann¹, Xinning Wang^{1,2}, Ida Allabauer¹, Benjamin Wilde¹, Lukas Amon², Andreas Kribben¹, Joachim Wölflé¹, Diana Dudziak¹, Oliver Witzke¹, Andre Hörning¹ (¹Germany, ²China)
- 10:40**
WS14.2 Translation of tacrolimus resistant antiviral T cell products: In depth-efficacy evaluation and human based safety assessment
Lisa Burkhardt, Lukas Ehlen, Anna Löwa, Niklas Wiese, Claudia Beltran Mestres, Ugarit Daher, Melanie Rothe, Anna-Catharina Krebs, Janine Arndt, Mathis Hertel, Andy Römhild, Stephan Schlickeiser, Mir-Farzin Mashreghi, Andreas Hocke, Hans-Dieter Volk, Petra Reinke, Michael Schmueck-Henneresse, Leila Amini (Germany)
- 10:50**
WS14.3 Donor HLA-DQ landscape predicts the likelihood of controlling BK polyoma virus replication after kidney transplantation
Mathieu Chevalier¹, Vincent Allain^{1,2}, Julien Gras¹, Juliette Villemonteix¹, Gillian Divard¹, Linda Feghoul¹, Constance Delaugerre¹, Jean-Michel Molina¹, Jean-Luc Taupin¹, Marie-Noelle Peraldi¹, Cyrille Feray¹, Sophie Caillat-Zucman¹ (¹France, ²USA)
- 11:00**
WS14.4 Immunosuppressive therapy modifies anti-Spike IgG subclasses distribution after 4 doses of mRNA vaccination in a cohort of kidney transplant recipients
Ignacio Juarez, Isabel Perez-Flores, Arianne Aiffil-Meneses, Ana López Gómez, Natividad Calvo-Romero, Raquel Gonzalez-Garcia, Belen Peix-Jimenez, Manuel Gomez del Moral, Ana Isabel Sanchez-Fructuoso, Eduardo Martinez-Naves (Spain)
- 11:10**
WS14.5 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 Vacca¹, Lorenzo Moretta¹, Linda Quatrini¹ (¹Italy, ²USA)
- 11:20**
WS14.6 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



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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

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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



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WICKLOW HALL 2 | 14:15-15:30

WORKSHOP 15 - T CELLS IN AUTOIMMUNITY

- 14:15**
WS15.1 Autoantigen-specific CD4 T cells acquire an exhausted phenotype and persist in patients with antigen-specific autoimmune disease
Carina Saggau¹, Petra Bacher¹, Daniela Esser¹, Mahdi Rasa¹, Andreas Hutloff¹, Sarah-Sophie Schacht¹, Justina Dargvainiene¹, 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 (¹Germany, ²Switzerland, ³France)
- 14:25**
WS15.2 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)
Feng Liu, Rachel Anscombe, Hui Shi, paul Bowness, liye Chen (*United Kingdom*)
- 14:35**
WS15.3 T cell mediated immune responses in primary intestinal tissue slices from IBD patients ex vivo
Klaudia Maria Grieger, Valerie Beneke, Vanessa Neuhaus, Susann Dehmel, Ulf Kulik, Heiko Aselmann, Benjamin Gundert, Armin Braun, Christina Hesse, Katherina Sewald (*Germany*)
- 14:45**
WS15.4 A novel humanized mouse model to study rheumatoid arthritis associated anti-citrulline T cell reactivity
Marlene Schüle¹, Diego Velasques Pulgarin¹, Aaron Winkler², Lars Klareskog¹, Alexander Espinosa¹, Vivianne Malmström¹, Bruno Raposo¹ (¹Sweden, ²USA)
- 14:55**
WS15.5 CCL5/RANTES in the pathogenesis of systemic lupus erythematosus (SLE)
Xiaolin Cao, Niels van Heusden, Ellen Kaan, Maarten Limper, Marianne Boes (*Netherlands*)
- 15:05**
WS15.6 Unravelling pathological mechanisms of Addison's disease using a novel animal model
Ales Neuwirth, Arina Andreyeva, Juraj Michálik, Ondrej Stepanek (*Czech Republic*)
- 15:15** Discussion

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LIFFEY 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 Thepaut, Antoine Robert, Paul Courrieu, Florence Niedergang, Fatah Ouaz (France)
- 15:15** Discussion



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WICKLOW HALL 1 | 14:15-15:30

WORKSHOP 17 - NEUROINFLAMMATION II

- 14:15**
WS17.1 Meningeal $\gamma\delta 17$ T cells and blood-brain barrier disruption: implications 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 Buyle-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 Denaroso, Saïd Akli, Ilia Karatsoreos (USA)
- 15:15** Discussion

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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 Masri¹, Rachida Tacine¹, Giusi Prencipe³, Masahiko Nishitani-Isa⁴, Rogier T.A. van Wijck⁵, Farzana Bhuyan⁶, Adriana A. De Jesus Rasheed⁶, Simona Coppola³, Paul L.A. van Daele⁵, 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 Quinti, 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



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

WORKSHOP 19 - PATTERN RECOGNITION RECEPTORS AND INNATE IMMUNITY

- 14:15**
WS19.1 AHR spying on bacterial communication and quorum during infection
Pedro Moura-Alves (*Portugal*)
- 14:25**
WS19.2 PYHIN proteins modulate dendritic cell responsiveness to immune-stimulatory DNA via negative regulation of type I interferon
Craig McEntee, Ross W. Ward, Sarah Hayes, Josephine Douglas, Ed Lavelle, Andrew Bowie (*Ireland*)
- 14:35**
WS19.3 NLRP3 is a thermosensor that is negatively regulated by high temperature
Wei Wang¹, Chloe McKee¹, Junya Zhang², Damien Bertheloot³, Marcia Munoz⁴, Amelia Stennett², Shangze Xu², Melanie Cranston¹, Bernardo Franklin³, Michael Rogers⁴, Agnieszka Bronowska², Rebecca Coll¹ (*¹Ireland, ²United Kingdom, ³Germany, ⁴Australia*)
- 14:45**
WS19.4 Toll-like receptor 3 (TLR3) Leu412Phe (L412F): a candidate polymorphism in lung microbiome dysregulation and acute exacerbation in idiopathic pulmonary fibrosis patients
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 (*¹Ireland, ²United Kingdom, ³USA*)
- 14:55**
WS19.5 SARM1 regulates pro-IL-1 β expression in monocytes by an NADase-dependent mechanism
Ryoichi Sugisawa¹, Masahiko Honda¹, Suman Dash¹, Akiyoshi Komuro¹, Takeshi Ueda¹, Andrew Bowie², Hitoshi Okada¹ (*¹Japan, ²Ireland*)
- 15:05**
WS19.6 MicroRNAs released by UV-treated keratinocytes activate pDCs viaTLR7: a model mechanism of type I interferon triggering in psoriasis
Valentina Salvi, Carolina Gaudenzi, Barbara Mariotti, Paolo Bergese, Silvano Sozzani, Flavia Bazzoni, Daniela Bosisio (*Italy*)
- 15:15** Discussion

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LIFFEY MEETING ROOM 3 | 14:15-15:30

WORKSHOP 20 - MECHANISMS OF ANTIGEN PRESENTATION

- 14:15**
WS20.1 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 Bonté¹, Guadalupe Suarez¹, Marianne Burbage¹, Benjamin Sadacca¹, Christel Goudot¹, Joshua J. Waterfall¹, Montserrat Carrascal², Lluís Quintana-Murci¹, Antonela Merlotti¹, Diego Sebastian Amigorena¹ (¹France, ²Spain)
- 14:25**
WS20.2 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 (¹France, ²Germany)
- 14:35**
WS20.3 Engagement of TNF superfamily regulates the formation of the dendritic cell immunological synapse
Camille Clamagirand, Jérémie Rossy (Switzerland)
- 14:45**
WS20.4 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 You^{1,3}, Maki Nakayama³, Sarah Richardson², Roberto Mallone^{1,3} (¹France, ²United Kingdom, ³USA, ⁴Belgium)
- 14:55**
WS20.5 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**
WS20.6 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 (¹United Kingdom, ²Australia)
- 15:15** Discussion



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ECOCHEM 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 Espinosa¹ (*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** $\gamma\delta$ 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- κ B 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



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WICKLOW HALL 2 | 15:55-17:10

WORKSHOP 22 - CANCER VACCINES AND IMMUNOTHERAPIES

- 15:55**
WS22.1 Bacterial nanoparticles as a novel platform for personalized cancer vaccines
Thomas van den Brekel¹, Sanne Duinkerken¹, Laura Kruijssen¹, Katarina Olesek¹, Eleonora Nardini¹, Magali Coccimiglio¹, Sjoerd Schetters², Wouter Jong³, Joen Luirink¹, Yvette van Kooyk¹ (¹Netherlands, ²Belgium, ³Sweden)
- 16:05**
WS22.2 In-situ vaccination with Flt3L elicits immune responses against hepatocellular carcinoma and improves checkpoint blockade therapy
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**
WS22.3 Polymeric nanoparticles targeting conventional type 1 dendritic cells enhance antigen cross-presentation and CD8⁺ T cells by activation of the non-canonical inflammasome
Jorge Huete-Carrasco, Natalia Muñoz-Wolf, Ross W. Ward, Ed Lavelle (Ireland)
- 16:25**
WS22.4 MV130 as a new innate memory-based mucosae vaccine against cancer
Luna Cordeiro Minute, Laura Bravo Robles, Pablo Mata Martinez, Francisco Javier Cueto, Jaime Fernandez-Pascual, Eduardo Lopez-Collazo, Carlos Del Fresno (Spain)
- 16:35**
WS22.5 Can immunotherapies engaging the CD3/γδ TCR complex help reactivate exhausted γδ T cells in a tumoral microenvironment?
Morgane Chauvet, Emmanuel Scotet, Dorothée Bourges (France)
- 16:45**
WS22.6 Enhancing oncolytic virus-infected cellular vaccines with tumor-rejecting lymphocyte transfer for the immunotherapy of triple-negative breast cancer
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 Hamaïdia, 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 Tomaipitnca, 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 Cieřlik¹, Spencer D. Strobel^{1,2}, Bernadeta Nowak¹, Krzysztof Bryniarski¹, Katarzyna Nazimek¹ (¹*Poland*, ²*USA*)
- 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 (¹*Germany*, ²*Finland*)
- 16:55** Discussion

MONDAY, 2 SEPTEMBER 2024

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 Lindenmann, 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 Colonna³, Robert Schreiber³, Maria Letizia Barreca¹, Peter Murray⁴, Kenneth M. Murphy³, Francesca Fallarino¹ (¹Italy, ²France, ³USA, ⁴Germany)
- 16:15**
WS24.3 Rapid metabolic regulation of a novel arginine methylation of KCa3.1 influences T cell fate
Piyush Sharma, Ao Guo, Katherine Verbist, M. Madan Babu, Evan S. Glazer, Douglas Green (USA)
- 16:25**
WS24.4 Overcoming the limitations of α 4-1BB/PD1 dual treatment by exploring the metabolic programming of therapy-responsive T-cells
Frédérique de Graaf, Nils Mülling, Felix Behr, Ward Vleeshouwers, Macha Beijnes, Quint Blom, Lucas Brock, Ramon Arens (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 Runtsch³, Kathrin Maitz³, Anna Lueger³, Julia Kargl³, Mark Watson⁴, Martin Brand⁴, Ed Lavelle¹, Luke O'Neill¹ (¹Ireland, 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**
WS25.1 TCRgrapher: a software for the identification of antigen-specific TCRS
Kseniia Lupyr¹, Pavel Shelyakin², Konstantin Sobyenin¹, Ruslan Martynov¹, Vladimir Popov¹, Sevastyan Rabdano¹, Irina Linge¹, Olga Nikitina¹, Ilya Kofiadi¹, Dmitry Staroverov¹, Mikhail Shugay¹, Dmitriy Chudakov^{1,2}, Olga Britanova¹ (*¹Russian Federation, ²United Arab Emirates*)
- 16:05**
WS25.2 Modeling variations in antibody response magnitude and longevity
Paola Stolfi, Filippo Castiglione, Enrico Mastrostefano, Silvia Scarpetta, Antonella Prisco (*Italy*)
- 16:15**
WS25.3 Unveiling the power of high-dimensional cytometry data with 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**
WS25.4 Bw4 ligand and direct T-cell receptor binding induced selection on HLA A and B alleles
Yoram Louzoun, Reut Levi (*Israel*)
- 16:35**
WS25.5 Quantitative comparison of cellular trajectories from single-cell transcriptomics data
Lisa Maria Steinheuer, Kevin Thurley (*Germany*)
- 16:45**
WS25.6 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



MONDAY, 2 SEPTEMBER 2024

LIFFEY MEETING ROOM 2 | 15:55-17:10

WORKSHOP 26 - IMMUNOLOGY OF SKIN DISEASE

- 15:55**
WS26.1 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**
WS26.2 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**
WS26.3 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**
WS26.4 Spermidine/spermine N1-acetyltransferase controls tissue-specific regulatory T cell function in chronic skin inflammation
Teresa Neuwirth, Daniel Malzl, Katja Knapp, Panagiota Tsokkou, Lisa Kleissl, Anna Redl, Christian Freystätter, Nara Marella, Ana P. Kutschat, Elisabeth Ponweiser, Arvand Haschemi, Davide Seruggia, Jörg Menche, Erwin F. Wagner, Georg Stary (*Austria*)
- 16:35**
WS26.5 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 Culpier, Véronique Godot, Pierre Wolkenstein, Yves Lévy, Piotr Topilko, Sophie Hue (*France*)
- 16:45**
WS26.6 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 (¹*France*, ²*USA*)
- 16:55** Discussion

MONDAY, 2 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 15:55-17:10

WORKSHOP 27 - TISSUE MICROENVIRONMENTS-DAMAGE AND REPAIR

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



MONDAY, 2 SEPTEMBER 2024

ECOCHEM 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
WS28.2 factor leads to aberrant bactericidal functionality of neutrophils
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
WS28.3 infiltration during retinal degeneration
Luke Gibbons, Chris Greene, Charlotte Leane, Sarah Doyle (*Ireland*)
- 16:25** Senescence related phenotypic alterations of lymphocytes are
WS28.4 affected by dialysis prescription and can predict mortality in dialysis patients
Georgios Lioulis¹, Aliko 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 Davydov^{1,2}, Pavel Shelyakin³, Mark Izraelson⁴, Aleksei Mazalov⁴, Irina Shagina^{4,5}, Jessica Nordlund⁵, Ulrika Liljedahl⁵, Valeriia Kriukova⁶, Kseniia Lupyr⁴, Imad Shams⁶, Dmitriy Chudakov^{1,4}, Olga Britanova⁴** (*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 Mashregi (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
WS29.1 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 (¹Germany, ²USA)
- 08:40** Mapping T cell signatures associated to response to neoadjuvant
WS29.2 chemotherapy in colorectal liver metastasis
Maud Mayoux¹, Fabius Wiesmann¹, Gioana Litscher¹, Marijne Vermeer¹, Stanislav Dergun¹, Khemara Long¹, Ariana Karimi¹, Samira Burr¹, Nicolas Nunez¹, Ekaterina Friebe², Tobias Wertheimer¹, Colin Sparano¹, Florian Mair¹, Burkhard Becher¹, Bettina Sobottka-Brillout¹, Sònia Tugues¹ (¹Germany, ²Switzerland)
- 08:50** Beyond helpers: unraveling the potential of CD4+ cytotoxic T cells in B
WS29.3 cell lymphoma
Ivana Spasevska, Karoline Kongsrud, Ankush Sharma, Eveline Scherer, Hanna Julie Hoel, Marianna Vincenti, Monica Bostad, Heidi Ødegaard Notø, Idun Dale Rein, Claire Dunn, Kanutte Huse, June H. Myklebust (Norway)
- 09:00** Distinct spatiotemporal dynamics drive CD8+ T cell fate decision in
WS29.4 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
WS29.5 derived tumor-lung tissue interface
Tonia Bargmann, Sebastian Konzok, Dirk Schaudien, Christopher Werlein, Patrick Zardo, Lavinia Neubert, Danny Jonigk, Hans-Gerd Fieguth, Katherina Sewald, Susann Dehmel, Armin Braun (Germany)
- 09:20** Distinct immune resistance profiles of malignant subpopulations
WS29.6 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
WS30.1 Engineered nanobodies as tools to visualize and direct antigen specific tolerance
Novalia Pishesha (USA)
- 08:40
WS30.2 Anti-citrullinated histone antibody CIT-013: targeting neutrophil extracellular traps as an anti-inflammatory therapy in hidradenitis suppurativa
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
WS30.3 Elimination of CD45RChigh T and B cells by anti-CD45RC mAb lead to efficient control of experimental rheumatoid arthritis
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 Anegón, Carole Guillonnet (France)
- 09:00
WS30.4 RP23: a novel peptide-based therapeutic for inflammatory skin diseases
Jack Rawlings, Anneliese Ashhurst, Skye Stockdale, Daniel Ford, Joshua Maxwell, Rachael Ireland, Richard Payne, Scott Byrne (Australia)
- 09:10
WS30.5 Slamming the brakes on autoimmunity: inhibition of the CD40:CD40L pathway utilizing fab fragments and nanobodies
Kathrine Pedersen, Nick Stub Laursen, Yaseelan Palarasah, Søren Egedal Degn, Steffen Thiel (Denmark)
- 09:20
WS30.6 An unbiased high-throughput screening identifies repurposing drugs and novel molecules that reduce proinflammatory cytokine secretion in the context of rheumatoid arthritis
Martin Kotrulev, Beatriz Garcia-Pinel, Rodrigo Bernardez-Alfaya, Yolanda Lopez-Golan, 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 Ruusuvuori⁴, Tiit Örd, Minna U. Kaikkonen, Tapio Lönnberg (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 Schuetz^{1,2}, Gayel Duran^{1,2}, Paulien Baeten^{1,2}, Doryssa Hermans^{1,2}, Sarah Chenine^{1,2}, Janne Verreycken^{1,2}, Tim Vanmierlo^{1,2}, Kristiaan Wouters¹, Bieke Broux^{1,2} (¹Belgium, ²Netherlands)
- 09:20
WS31.6 High fat low carbohydrate is linked to protection against the development of CNS autoimmunity
Duan Ni, Jian Tan, Julien 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

TUESDAY, 3 SEPTEMBER 2024

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 Gottfreund, 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
Brigitte 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
Clíodhna 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 Stry, Johanna Strobl (*Austria*)
- 09:20**
WS32.6 A tissue-specific molecular program governs the formation and function of brain-resident CD8⁺ T cells
Tarek Elmzzahi^{1,2}, Darya Malko^{1,2}, Mehrnoush Shakiba¹, Doaa Hamada¹, Martin Fuhrmann¹, Kevin Man², 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** Inducing tick immunity by vaccination as a novel strategy to prevent Lyme borreliosis **WS33.1** **Lyme**
Melissa van Gool, Alexis Burnham, Francisca Bixirao Ferreira Andersen, Hannelore Beart, Jacqueline van Eck, Abhijeet Nayak, Joppe Hovius (Netherlands)
- 08:40** Immunogenicity and efficacy of vaccination with BCG Δ BCG1419c and H1-TT against tuberculosis in mice **WS33.2** **H1-TT**
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** Chitin-derived polymers are promising cGAS-STING dependent mucosal vaccine adjuvants for respiratory pathogens **WS33.3**
Dorian Dederko, Kate Roche, Jorge Huete-Carrasco, Nicole Roche, Jeremy Aboagye, Lorena García del Río, Roisin Lynch, Hui Ma, Nicole O'Sullivan, Liam Murray, Grainne O'Rourke, Ed Lavelle (Ireland)
- 09:00** Preclinical immunological characterization of GMMA-based vaccine candidates against invasive nontyphoidal Salmonellosis **WS33.4**
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** The inhibition of IL-10 during immunization with a TLR agonist-based vaccine improves vaccine efficacy against the opportunistic pathogen **WS33.5** **Staphylococcus aureus**
Alanna Kelly, Simon Carlile, Karen McCarthy, Tracey Claxton, Emilio Vozza, Kingston Mills, Rachel McLoughlin (Ireland)
- 09:20** Bacteria-targeting vaccine in prevention of cardiovascular and cardiothrombotic diseases **WS33.6**
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
WS34.1 Role of Foxo1 and inflammation on T-cell exhaustion in the course of anti-tumor responses
Amélie Lombès, Mathieu Germain, Aurélie Durand, Léa Giraud, Armelle Blondel, Cédric Auffray, Bruno Lucas (*France*)
- 08:40
WS34.2 T cell Immunotherapy: thinking beyond inhibitory receptors
Ludovic Martinet (*France*)
- 08:50
WS34.3 Imiquimod induces gamma-delta T cell exhaustion in mouse psoriatic inflammation
Katarzyna Nazimek, Angelika Fedor, Bernadeta Nowak, Paulina Skalska, Martyna Cieślík, Magdalena Gębicka, Katarzyna Zaborowska, Krzysztof Bryniarski (*Poland*)
- 09:00
WS34.4 Activated hepatic stellate cells promote the retention and functional impairment of tissue-resident CD8⁺T-cells in the fibrotic liver
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
WS34.5 Immune checkpoint molecules control the local antigen-specific immune response in the liver
Thomas Guinebretière, Anaïs Cardon, Jean-Paul Judor, Richard Danger, Sophie Conchon, Amédée Renand (*France*)
- 09:20
WS34.6 Circulating Immune profiling in people living with HIV (PLHIV) reveals that a differential pattern of exhaustion and activation is associated with viral control
Adriana Navas¹, dos Santos Jéssica¹, Groenendijk Albert¹, Nadira Vadaq¹, Maartje C.P. Jacobs-Cleophas¹, Bram van Cranenbroek¹, Wilhelm A.J.W. Vos¹, Marc J.T. Blaauw¹, Louise van Eekeren¹, Casper Rokx¹, Annelies Verbon¹, Mihai Netea^{1,2}, Leo Joosten^{1,3}, Hans Koenen¹, Andre van der Ven¹ (*¹Netherlands, ²Germany, ³Romania*)
- 09:30 Discussion

TUESDAY, 3 SEPTEMBER 2024

ECOCHEM ROOM | 08:30-09:45

WORKSHOP 35 - TOLERANCE AND IMMUNE REGULATION

- 08:30** Understanding immunity at the site of embryo implantation –
WS35.1 implications for women with recurrent pregnancy loss
Ana Kisovar, Ingrid Granne, Jennifer Southcombe (*United Kingdom*)
- 08:40** Studies to determine myelin peptide-specific nanoparticle tolerance
WS35.2 mechanisms and clinical translation
Joseph Podojil, Andrew Cogswell, Ming-Yi Chiang, Sandeep Kakade, Derrick McCarthy, Adam Elhofy, Stephen Miller (*USA*)
- 08:50** Tolerogenic dendritic cell-based immunotherapy to prevent unwanted
WS35.3 immune response in enzyme replacement therapy for lysosomal storage disorders
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
WS35.4 vesicles with immunomodulatory function
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
WS35.6 compartment
Gonçalo Nogueira¹, Francisca Soares-da-Silva¹, Nuno Alves², Pablo Pereira¹, Ana Cumano¹ (¹*France*, ²*Portugal*)
- 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 Bacsí** (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

TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 2 | 10:30-11:45

WORKSHOP 36 - T CELL REGULATION AND FUNCTION I

- 10:30**
WS36.1 Inheritance of old mitochondria controls early CD8 T cell fate commitment and is regulated by autophagy
Mariana Borsa¹, Ana Victoria Lechuga-Vieco^{1,2}, Amir Kayvanjoo³, Yavuz Yazicioglu¹, Ewoud Compeer¹, Felix C. Richter^{1,4}, Hien Bui⁵, Emilia Kuuluvainen⁵, Michael L. Dustin¹, Linda Sinclair¹, Doreen Cantrell¹, Pekka Katajisto^{5,6}, Anna Katharina Simon^{1,3} (¹United Kingdom, ²Spain, ³Germany, ⁴Austria, ⁵Finland, ⁶Sweden)
- 10:40**
WS36.2 A subset of $\alpha\text{v}\beta 8$ -expressing CD4⁺ effector memory T cells restrain anti-viral CD8⁺ T cell responses and prevent tissue pathology via activation of latent TGF β
Craig McEntee^{1,2}, Stephanie Houston², Conor Finlay^{1,2}, Susan Christo³, Stefano Rossi², Gang Liu³, Tovah Shaw², Joshua Casulli², Mark Fife², Catherine Smedley², Thomas Griffith⁴, Marion Pepper⁴, Tracy Hussell², Philip Hansbro³, Jean-Marc Schwartz², Laura Mackay³, Helena Paidassi⁵, Mark Travis² (¹Ireland, ²United Kingdom, ³Australia, ⁴USA, ⁵France)
- 10:50**
WS36.3 Highly-functional myeloid-instructed CD8⁺ T-cells accumulate in the peritoneal cavity
Erich Freyer^{1,2}, Daniel Brown Romero¹, George Finney¹, Anandita Mathur¹, Lucy Cooper¹, Mala K. Maini¹, Markus Cornberg², Laura J. Pallett¹ (¹United Kingdom, ²Germany)
- 11:00**
WS36.4 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**
WS36.5 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**
WS36.6 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 Kuijper, 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 Kuijpers, 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-Wolf¹, Liza Rijvers¹, Ursula Boschert², Ana Marques¹, Jamie van Langelaar¹, Romy Klein Kranenbarg¹, Beatrijs Wokke¹, Joost Smolders¹, Marvin van Luijn¹ (¹Netherlands, ²Germany)
- 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 Luo^{1,2}, Anne Troldborg¹, Lin Lin¹, Søren Egedal Degn¹ (¹Denmark, ²China)
- 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 Durek, 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**
WS38.1 Mitochondrial perturbation in immune cells enhances cell-mediated innate immunity in *Drosophila*
Yuliya Basikhina¹, Laura Vesala^{1,2}, Tea Tuomela¹, Anssi Nurminen¹, Emilia Siukola¹, Tiina Salminen¹ (¹Finland, ²Sweden)
- 10:40**
WS38.2 Glutamate dehydrogenase-prostaglandin E2 axis controls Treg cell development with distinct features in maintaining immune tolerance
Fabien Prodjinotho¹, Neeraj Kumar¹, Jacob Lema², Cylia 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**
WS38.3 Targeting amino acid uptake on NK cells to limit pathogenesis of bacterial infections
Maxim Nosenko, Simon Carlile, Rachel McLoughlin, David Finlay (*Ireland*)
- 11:00**
WS38.4 Deciphering the immunomodulatory effects of 4-hydroxynonenal in 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**
WS38.5 Metabolic shift of human (super)antigen-induced T cells in an ex vivo lymphoid cell culture based on tonsils
Christopher Neullens, Ohl Kim, Klaus Tenbrock (*Germany*)
- 11:20**
WS38.6 ANGPTL3 deficiency-induced hypolipidemia triggers spontaneous 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 Bauersfeld, 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 Tulaeva^{1,2}, Carolin Cornelius-Nikl¹, Margarete Focke-Tejkl¹, Milena Weber¹, Mikhail Tulaev¹, Felix Lehmann³, Nora Goldmann³, Alexandra Dubovets², Alexander Karaulov², Rainer Henning¹, Dieter Glebe³, Rudolf Valenta^{1,2} (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

TUESDAY, 3 SEPTEMBER 2024**LIFFEY MEETING ROOM 2 | 10:30-11:45****WORKSHOP 40 - BIOINFORMATICS IN IMMUNITY AND DISEASE**

- 10:30**
WS40.1 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 (¹Norway, ²United Kingdom)
- 10:40**
WS40.2 The frail immune system: a frailty DNA methylation surrogate in circulating immune cells predicts preclinical ageing and future clinical outcomes
Matt McElheron^{1,2}, Jordan Davies¹, Etienne Patin², Belinda Hernandez¹, Lluís Quintana-Murci², Darragh Duffy², Cathal McCrory¹, Rose Anne Kenny¹, Aisling O'Halloran¹, Nollaig Bourkev (¹Ireland, ²France)
- 10:50**
WS40.3 Diffusion-limited cytokine signaling in T cell populations
Brunner Patrick, Kiwitz Lukas, Li Lisa, Kevin Thurley (Germany)
- 11:00**
WS40.4 Deep immune phenotyping of the ageing immune system
Lennart Riemann¹, Rodrigo Gutierrez¹, Ivan Odak², Joana Barros-Martins², Lennart M. Rösner¹, Ximena Leon Lara¹, Christine Falk¹, Thomas F. Schulz¹, Gesine Hansen¹, Thomas Werfel¹, Reinhold Foerster¹ (¹Germany, ²USA)
- 11:10**
WS40.5 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**
WS40.6 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 lncRNAs 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, Nikaia 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 TSA_d - 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'Fareilly (*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 Pocard, Noemie Oziol, Roger Le Grand, Patrick Lomonte, Antoine Rousseau, Marc Labetoulle (*France*)
- 11:30** Discussion

TUESDAY, 3 SEPTEMBER 2024

ECOCHEM ROOM | 10:30-11:45

WORKSHOP 42 - NK-BASED CANCER IMMUNOTHERAPIES

- 10:30**
WS42.1 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**
WS42.2 Defective NK cell function in metastatic melanoma patients underpinned by metabolic abnormalities
Eimear Mylod, Jack Behan, Fergal Kelleher, Clair Gardiner (Ireland)
- 10:50**
WS42.3 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**
WS42.4 Dual blockage of PD-L/PD-1 and IL33/ST2 axes improves antitumor immunity by enhancing NK cells' tumoricidal potential
Marina Jovanovic, David Geller, Nevena Gajovic, Milena Jurisevic, Milan Jovanovic, Gordana Supic, Danilo Vojvodic, Ivan Jovanovic (Serbia)
- 11:10**
WS42.5 The NKG2A-HLA-E immune checkpoint: novel-IC therapy based on mAb to specific HLA-E-peptide complexes
Muhammad Abu Ahmad, Olga Radinsky, Kamran Manzoor Waidha, Frank Momburg, Angel Porgador (Israel)
- 11:20**
WS42.6 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

TUESDAY, 3 SEPTEMBER 2024

WICKLOW HALL 2 | 14:30-15:45

WORKSHOP 43 - CONTROL OF TISSUE INFLAMMATION AND REPAIR

- 14:30**
WS43.1 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 Short2, Joanna Hester, Andrew Filer, Christopher Buckley, Kim Midwood (*United Kingdom*)
- 14:40**
WS43.2 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**
WS43.3 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**
WS43.4 Exploring the roles of $\gamma\delta$ 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**
WS43.5 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**
WS43.6 Current anti-TNF therapies do not prevent scar formation in Hidradenitis suppurativa (HS)
Conor Smith¹, Barry Moran¹, Alexandra Zabarovski¹, 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 Rafieiyan, 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, Federico Gattini, 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'Fareilly¹ (*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 Price², 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 Bartoletti¹, Maurizio Cecconi¹, Alberto Mantovani^{1,2}, 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**
WS45.1 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-Rodríguez¹, Maria Fernandez-Garcia^{1,2}, Juan Antonio Bueren¹, Rosa Maria Yañez¹, Marina Garin¹ (¹Spain, ²France)
- 14:40**
WS45.2 Alpha 1 antitrypsin (AAT) mitigates radiation-induced capsular contracture: insights from a murine model
Yuval Habousha, Idan Farber, Lihie Sheffer, Dor Halpern, Eli Lewis, Eldad Silberstein (Israel)
- 14:50**
WS45.3 Ehf and Fezf2 regulate thymic tissue homeostasis and thymic tuft cell development
Kristin Rattay (Germany)
- 15:00**
WS45.4 Characterization of an IL-33 expressing, immune active fibroblast subpopulation
Lisa Schmidleithner, Niklas Beumer, Frauke Hoffmann, Joachim Seebass, Thomas Hehlhans, Markus Feuerer (Germany)
- 15:10**
WS45.5 Stromal cells shape the immune response to mycobacteria
Anne Lösslein, Jana Neuber, Leonhard Wagner, Roman Sankowski, Sagar Sagar, Philipp Henneke (Germany)
- 15:20**
WS45.6 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. Minutti^{1,3}, 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 Kasperek¹, 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**
WS47.1 Regnase-1 KO B7-H3 CAR T cells for osteosarcoma: improved antitumor activity and potency to reprogram endogenous immune cells
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**
WS47.2 FOXO1 enhances CAR T stemness, metabolic fitness and efficacy
Jack Chan, Christina Scheffler, Isabelle Munoz, Kevin Sek, Junyun Lai, Paul Beavis, Phillip Darcy (Australia)
- 14:50**
WS47.3 Generating CRISPR/CAS9 armoured CAR- and TCR-T cells for the treatment of solid tumours
Phoebe Dunbar, Paul Beavis, Phillip Darcy, Amanda Chen, KahMin Yap (Australia)
- 15:00**
WS47.4 MALT1-induced Roquin cleavage in T cells and CAR T cells is critical for anti-tumor immunity
Arlinda Negraschus, Anne Holtermann, Stephanie Edelmann, Luise Rupp, Franziska Fuchs, Angela Krackhardt, Marc Schmitz, Sebastian Kobold, Vigo Heissmeyer (Germany)
- 15:10**
WS47.5 Learning the effect of CAR T cell design on single cell distributions
Alice Driessen, Rocio Castellanos Rueda, Sai Reddy, Marianna Rapsomaniki (Switzerland)
- 15:20**
WS47.6 Microfluidic approach to study T and CAR-T confined and 3D cell migration
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

TUESDAY, 3 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 14:30-15:45

WORKSHOP 48 - CYTOKINES AND CHEMOKINES IN CANCER

- 14:30**
WS48.1 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 Molgora³, Francesco Scavello¹, Irene Di Ceglie¹, Giovanni Pezone¹, Laura Falcone¹, Monica Casucci¹, Enrico Lugli, Sebastien Jaillon¹, Alberto Mantovani^{1,4}, Cecilia Garlanda¹ (¹Italy, ²Sweden, ³USA, ⁴United Kingdom)
- 14:40**
WS48.2 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**
WS48.3 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**
WS48.4 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 (¹Belgium, ²Poland)
- 15:10**
WS48.5 Role of the atypical chemokine receptor ACKR2 in the immune response to tumors
Francesca Albano, Elisa Zaghen, Raffaella Bonecchi (Italy)
- 15:20**
WS48.6 Targeting IL-38 triggers $\gamma\delta$ T cell-dependent anti-tumor immunity
Priscila da Silva¹, Javier Mora¹, Svenja Wiechmann¹, Mateusz Putyrski¹, Javier Garcia-Pardo^{1,2}, Xin You¹, Aimo Kannt¹, Andreas Ernst¹, Bernhard Brüne¹, Andreas Weigert¹ (¹Germany, ²Spain)
- 15:30** Discussion

TUESDAY, 3 SEPTEMBER 2024**ECOCHEM ROOM | 14:30-15:45****WORKSHOP 49 - REGULATION OF ADAPTIVE IMMUNITY**

- 14:30** T-cell receptor triggering requires inactivation of Lim kinase-1 by
WS49.1 Slingshot-1 phosphatase
Alvaro Gomez Moron, Sergio Alegre Gomez, Oscar Aguilar Sopena, Carlos Carrasco Padilla, Camila Scagnetti, Alicia Hernaiz Esteban, Rocio Ramirez-Muñoz, Raul Torres-Ruiz, Sandra Rodriguez Perales, Francisco Sanchez-Madrid, Noa Beatriz Martín-Cófreces, Pedro Roda Navarro (Spain)
- 14:40** Smoking changes adaptive immunity with persistent effects
WS49.2 **Violaine Saint-André¹, Bruno Charbit¹, Anne Biton¹, Anthony Bertrand¹, Florian Dubois¹, Vincent Rouilly¹, Celine Posseme¹, Maxime Rotival¹, Jacob Bergstedt^{1,2}, Etienne Patin¹, Matthew Albert¹, Lluís Quintana-Murci¹, Darragh Duffy¹ (¹France, ²Sweden)**
- 14:50** IFN- γ suppresses T follicular helper cell differentiation and antibody **WS49.3** 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 Iannaccone, Mirela Kuka (Italy)
- 15:00** Tlr7 bi-allelism defines a transcriptionally and functionally distinct B
WS49.4 cell subset
Mélissa Nieucel, Charles-Henry Miquel, Léa Ferrayé, Anne-Laure Iscache, Magali Savignac, Julie Chaumeil, Jean-Charles Guéry (France)
- 15:10** Centromeric AA haplotype and -21 dimorphism in HLA-B T/T as
WS49.5 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** Effect of rs2204985 polymorphism on human thymic T cell
WS49.6 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
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

TUESDAY, 3 SEPTEMBER 2024

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

TUESDAY, 3 SEPTEMBER 2024

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-Martin, 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, Alforonso 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**
WS51.1 Prevotella 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**
WS51.2 Cross-reactive immune responses following concomitant immunization against flaviviruses
David Wullimann, Mira Akber, John Tyler Sandberg, Marcus Buggert, Hans-Gustaf Ljunggren (*Sweden*)
- 16:30**
WS51.3 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 Strecker³, 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**
WS51.4 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**
WS51.5 NK cell derived IFN- γ mobilizes free fatty acids from adipose tissue to promote B cell activation during viral infection
Mia Krapic¹, Inga Kavazovic¹, Sabine Helmuth², Bojan Polić¹, Tamara Turk Wensveen¹, Felix Wensveen¹ (*¹Croatia, ²Germany*)
- 17:00**
WS51.6
- 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**
WS52.1 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**
WS52.2 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 Koprivica¹, Christos Chatzigiannis², Antonis Tsailanis², Stavroula Kyrkou², Eleftherios Paraskevas Tzacos², Aleksandar Pavić¹, Mirjana Dimitrijević¹, Andjelina Jovanović¹, Milan B. Jovanović¹, Sérgio Marinho³, Inês Castro-Almeida³, Vesna Otašević¹, Pedro Moura-Alves³, Andreas Tzacos², Ivana Stojanović¹ (*¹Serbia, ²Greece, ³Portugal*)
- 16:30**
WS52.3 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**
WS52.4 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**
WS52.5 Regulatory T cells drive OPC differentiation independent of MHC-II
Jessica White¹, Alerie Guzman de la Fuente^{1,2}, Andrew Young¹, Rebecca Ingram¹, Yvonne Dombrowski¹, Denise Fitzgerald¹ (*¹United Kingdom, ²Spain*)
- 17:00**
WS52.6 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

TUESDAY, 3 SEPTEMBER 2024

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 Slanzi, 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/PPAR α 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 (¹*Germany*, ²*Belgium*)
- 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**
WS54.1 iNKT cell immunomodulation and mucosal healing by microbiota-derived lactate
Federica Perillo, Chiara Amoroso, Alberto Baeri, Flavio Caprioli, Federica Facciotti, Francesco Strati (*Italy*)
- 16:20**
WS54.2 Microbial-derived metabolites promote NKT22 responses in colitis associated colorectal cancer patients
Federica Perillo, Alberto Baeri, Chiara Amoroso, Flavio Caprioli, Francesco Strati, Federica Facciotti (*Italy*)
- 16:30**
WS54.3 Neutrophils mediate protection against colitis and carcinogenesis by controlling bacterial invasion and driving IL-22 production by $\gamma\delta$ T cells
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 Mantovani^{1,2}, Sebastien Jaillon¹ (*¹Italy, ²United Kingdom*)
- 16:40**
WS54.4 Differential effects on fecal microbiota, gut immunity and vaccine response conveyed by a natural environment vs. co-housing with wild or pet store mice
Henriette Arnesen¹, Signe Birkeland¹, Harriet Stendahl¹, Klaus Neuhaus², Ryan Langlois³, David Masopust³, Harald Carlsen¹, Preben Boysen¹ (*¹Norway, ²Germany, ³USA*)
- 16:50**
WS54.5 Integrating functional metagenomics to decipher microbiome-immune interactions
Puspendu Sardar, Amelia Soderholm, Sarah Whiteside, Benjamin Beresford-Jones, Paula Kuo, Rahul Roychoudhuri, Virginia Pedicord (*United Kingdom*)
- 17:00**
WS54.6 Gut microbiota and maternal immune transfer at birth precede pre-allergic clinical outcome
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**
WS55.1 Identification of serial killing natural killer cells
Jens Niemann, Maren Claus, Vanna Imsirovic, Carsten Watzl (Croatia)
- 16:20**
WS55.2 A novel CD5-based adoptive cell transfer therapy for systemic fungal infection
María Velasco-de Andrés, Cristina Català, Laura Carrillo-Serradell, Violeta Planells-Romeo, Marta Español-Rego, Lorena Pérez-Amill, Pedro Puerta-Alcalde, Carolina Garcia-Vidal, Beatriz Martín-Antonio, Francisco Lozano (Spain)
- 16:30**
WS55.3 Dual modulation of cytotoxic and checkpoint receptors tunes the efficacy of Delta One T cells against colorectal cancer
Rafael Blanco Domínguez, Leandro Barros, Mariana Carreira, Sofia Mensurado, Bruno Silva-Santos (Portugal)
- 16:40**
WS55.4 Engineering NK cell immunotherapy to optimise liver homing and T cell regulation
Mariana Diniz, Yiya Zhong, Stephanie Kucykowicz, Daniel Brown Romero, Jessica Davies, Joseph McDowell, John Counsell, Mala K. Maini (United Kingdom)
- 16:50**
WS55.5 Development of $\gamma\delta$ T cell immunotherapy against glioblastoma
Gabriel Marseres^{1,2}, Coline 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**
WS55.6 Ethanol-treated human fibroblasts and their extracellular vesicles modulate TCD4⁺ lymphocytes
Daniella Figueiredo, Ariane Fidelis Busso-Lopes, Tatiane De Rossi, Rodrigo Gomes Bernardo Cruz, João Silva Vitor Ormonde, Jamile de Oliveira Sá, Larissa Tinô de Carvalho Silva, Adriana Franco Paes Leme (Brazil)
- 17:10** Discussion



TUESDAY, 3 SEPTEMBER 2024

ECOCHEM ROOM | 17:25-18:45
ECI STUDY GROUP
EUROPEAN IMMUNOMETABOLISM NETWORK MEETING

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

WEDNESDAY, 4 SEPTEMBER 2024

WICKLOW HALL 2 | 08:30-09:45

WORKSHOP 56 - REGULATION OF AUTOIMMUNE AND INFLAMMATORY DISEASE

- 08:30**
WS56.1 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 Brännert, Rhonda McFleder, Jörg Wischhusen, Chi Wang Ip (Germany)
- 08:40**
WS56.2 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 (¹Austria, ²Italy)
- 08:50**
WS56.3 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 Roder, 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**
WS56.4 Size matters; particle size regulates the induction of anti-inflammatory responses and immune tolerance via $\alpha v \beta 3$ mechano-sensor engagement
Roisin Lynch, Jorge Huete-Carrasco, Ed Lavelle (Ireland)
- 09:10**
WS56.5 Single cell sequencing of antigen-specific autoreactive B cells in MuSK myasthenia gravis
Laurent Paardekooper¹, Jessica van Bokkum¹, Yvonne Fillié-Grijpma¹, Theresa Kissel², Susan Kloet¹, Martijn Tannemaat¹, Jan Verschuuren¹, Silvere van der Maarel¹, Maartje Huijbers¹ (¹Netherlands, ²Germany)
- 09:20**
WS56.6 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

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY HALL 2 | 08:30-09:45

WORKSHOP 57 - RESPIRATORY INFLAMMATION

- 08:30**
WS57.1 Recruited atypical Ly6G⁺ macrophages license alveolar regeneration after lung injury
Cecilia Ruscitti, Joan Abinet, Pauline Marechal, Margot Meunier, Constance de Meeûs d'Argenteuil, Domien Vanneste, Pierre Janssen, Marc Thiry, Fabrice Bureau, Benjamin Dewals, Mutien-Marie Garigliany, Akeila Bellahcene, Coraline Radermecker, Thomas Marichal (Belgium)
- 08:40**
WS57.2 Targeting neutrophil extracellular traps to reduce immunopathology in tuberculosis
Julia Kutschenreuter, Ramla Cusman, Keira Skolimowska, Jon S. Friedland, Deborah L W Chong (United Kingdom)
- 08:50**
WS57.3 Elevated matrix-metalloproteinase and pro-inflammatory cytokine activity due to helminth co-infection drives pulmonary tissue destruction in tuberculosis
Maria Cristina Loader^{1,2}, Sory Vasquez Alves², Manuela Verastegui², Robert H. Gilman^{2,3}, Jon S Friedland¹ (¹United Kingdom, ²Peru, ³USA)
- 09:00**
WS57.4 Single cell RNA sequencing reveals endothelial cell killing and resolution pathways in experimental malaria-associated acute respiratory distress syndrome
Emilie Pollenus, Hendrik Possemiers, Sofie Knoops, Fran Prenen, Leen Vandermosten, Chloë Thienpont, Saeed Abdurahiman, Sofie Demeyer, Jan Cools, Gianluca Matteoli, Jeroen Vanoirbeek, Greetje Vande Velde, Philippe Van den Steen (Belgium)
- 09:10**
WS57.5 Identification of specific monocyte epigenetic signatures in sarcoidosis and tuberculosis patients
Marie Robert, Nader Yatim, Tom Dott, Arthur Mageau, Florian Dubois, Nicolas Charles, Tiphaine Goulenok, Violaine Saint-André, Karim Sacre, Darragh Duffy (France)
- 09:20**
WS57.6 Clinically severe chronic obstructive pulmonary disease patients are characterised by a distinct immune lung cell signature
Natalie Bordag¹, Katharina Jandl¹, Ayu Hutami Syarif¹, Juergen Gindlhuber¹, Diana Schnoegl¹, Ayse Ceren Mutgan¹, Konrad Hoetzenecker¹, Panja Böhm¹, Vasile Foris¹, Katarina Zederv, Slaven Crnkovic^{1,2}, Francesca Polverino³, Grazyna Kwapiszewska^{1,2}, Leigh Marsh¹ (¹Austria, ²Germany, ³USA)
- 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
WS58.1 germinal centre formation
Trang-My Nguyen, Orlane Maloudi, Maïlys Mouysset, Ines Claire Osma-Garcia, Dunja Capitan-Sobrinho, Yann Aubert, Manuel Diaz-Munoz (*France*)
- 08:40** CD4-Lck signalling activates CDK1 to enhance nuclear transport in T cells
WS58.2 **Dejan Mesner, Matt Whelan, Maitreyi Shivkumar, Clare Jolly** (*United Kingdom*)
- 08:50** NRK1-dependent cytoplasmic NAD/H synthesis determines CD4+ T
WS58.3 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
WS58.4 **Sonja Rittchen, Anja Zdouc, Stefano Angiari, Johannes Fessler** (*Austria*)
- 09:10** Spatial and functional association of CD69 leukocyte activation
WS58.5 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
WS58.6 T cell function
Puja Kumari, Dibyendu Samanta, Gayatri Mukherjee (*India*)
- 09:30** Discussion

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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 Schuetz^{1,2}, Janne Verreycken¹, Paulien Baeten¹, Baharak Hosseinkhani¹, Sam Duwe¹, Jelle Hendrix¹, Ilse Dewachter¹, Niels Hellings¹, Bieke Broux¹ (¹Belgium, ²Netherlands)
- 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 Longet^{1,2}, Karen Gooch¹, Yper Hall¹, Francisco J. Salguero¹, Adriana Tomic³, Miles Carroll¹ (¹United Kingdom, ²France, ³USA)
- 09:10**
WS59.5 Local skin enrichment of chemical-specific T cells as strategy for causative allergen identification
Caterina Curato¹, Uwe Paasch¹, Sonja Molin^{3,4}, Andreas Luch¹, Ines Schreiver¹, Katherina Siewert¹ (¹Germany, ²Algeria, ³Canada)
- 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

WEDNESDAY, 4 SEPTEMBER 2024

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 (*¹Ireland, 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 Marzaoli, 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

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 08:30-09:45

WORKSHOP 61 - CANCER IMMUNE REGULATION AND EVASION

- 08:30**
WS61.1 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**
WS61.2 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**
WS61.3 IL411 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**
WS61.4 TNFR2 expression by Tregs is critical for suppressing tumor immunity by regulating inflammatory cytokines
Morgane Hilaire, Maryam Koshravi, Angéline Mimoun, Emilie Ronin, Wilfrid Richer, Léonie Cagnet, Sahar Kassem, Alexandre Boissonnas, Elisa Bonnin, Eliane Piaggio, Benoît L. Salomon (*France*)
- 09:10**
WS61.5 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**
WS61.6 Investigating the Immunomodulatory role of epithelial YAP/TAZ in gastric metaplasia
Jacqueline Sung, Zhaoping Ju, Alex Gregorieff, Samantha Gruenheid (*Canada*)
- 09:30** Discussion



WEDNESDAY, 4 SEPTEMBER 2024

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

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY A | 11:15-12:30

WORKSHOP 62 - T CELL REGULATION AND FUNCTION III

- 11:15**
WS62.1 Roles and functions of the Foxk1 transcription factor to control T cell responses
Léa Baugé¹, Valentin Mellado¹, Alice Clément¹, Anne Gonzalez de Peredo¹, Sven Enerback², Bernard Malissen¹, Guillaume Voisinne¹, Romain Roncagalli¹ (¹France, ²Sweden)
- 11:25**
WS62.2 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**
WS62.3 Not so TOP after all: cytokine 3'untranslated regions dictate responsiveness to mTOR-mediated translation in human T cells
Anouk Jurgens, Branka Popovic, Josephine Zwiijnen, Floris Van Alphen, Arjan Hoogendijk, Aurelie Guislain, Monika Wolkers (Netherlands)
- 11:45**
WS62.4 A truncated LAT isoform lacking the 5 distal tyrosines still allows the development of gamma delta T cells
Mikel Arbulo-Echevarria¹, Luis M. Fernandez-Aguilar¹, Inmaculada Vico-Barranc'o, Isaac Narbona-Sanchez¹, Elke Kurz², Bernard Malissen³, Michael L. Dustin², Enrique Aguado¹ (¹Spain, ²United Kingdom, ³France)
- 11:55**
WS62.5 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**
WS62.6 S1P-signaling inhibition suppresses Th1-like Treg generation by rewiring mitochondrial metabolism
Rachel Coulombeau, Claudia Selck, Nicolas Giang, Allison Maher, Richard Nicholas2, Margarita Dominguez-Villar (United Kingdom)
- 12:15** Discussion

WEDNESDAY, 4 SEPTEMBER 2024

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 ANCAs: 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, Elena 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, Lluís 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 Tosoetto¹, Roisin Stack¹, Kieran Sheahan¹, Gregory Yochum³, Glen Doherty¹, Sudipto Das¹ (*¹Ireland, 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 Luo^{1,3}, Lin Lin¹, Søren Egedal Degn¹ (*¹Denmark, ²USA, ³China*)
- 12:15** Discussion

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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 Undurraga, 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 Ohi¹, Klaus Tenbrock^{1,3} (*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

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WICKLOW HALL 1 | 11:15-12:30

WORKSHOP 65 - ADOPTIVE T CELL THERAPY

- 11:15**
WS65.1 Advancing CD8⁺ Treg cell therapy to the clinic for the treatment of kidney transplanted patients
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 Guillonnet (France)
- 11:25**
WS65.2 Use of nonengineered multiantigen specific Tissue-resident memory T cells for adoptive cellular therapy in gastrointestinal patients with liver metastases
Emilien Laloy, Jean Rene Pallandre, Syrine Abdeljaoued, Christophe Borg (France)
- 11:35**
WS65.3 Chasing antigen-specific T cells with high avidity (CATCH)
Kalliopi Zampeta, Larissa Henze, Andreas Thiel, Lucie Loyal (Germany)
- 11:45**
WS65.4 Optimized platform for the production of personalized T cells with transgenic TCRs for a chronic lymphocytic leukemia therapy development
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**
WS65.5 A folate receptor alpha specific, CD28/CD40-based chimeric costimulatory antigen receptor (CoStAR™), enhances anti-tumour activity of T cells and tumour infiltrating lymphocytes
Milena Kalaitidou, Owen Moon, Leyuan Bao, Mark Dudley, Robert Hawkins, Gray Kueberuwa, John Stephen Bridgeman (USA)
- 12:05**
WS65.6 Adoptive PD1⁺ tumor-infiltrating lymphocyte therapy for metastatic TNBC: production results of the safety run-in phase of the TILS001 clinical trial
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

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LIFFEY HALL 1 | 11:15-12:30

WORKSHOP 66 - CANCER IMMUNE EVASION AND RESISTANCE

- 11:15**
WS66.1 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**
WS66.2 Probing tumour immune evasion via local immune profiling with fine needle aspirates in hepatocellular carcinoma (HCC)
Gloryanne Aidoo-Micah, Stephanie Kucykowicz, Vishnu Naidu, Nathalie Schmidt, Daniel Brown Romero, Rushabh Shah, Tate McKinnon-Snell, Yiya Zhong, Upkar Gill, Mariana Diniz, Laura J. Pallett, Edward Green, Alexa Childs, Tim Meyer, Mala K. Maini (*United Kingdom*)
- 11:35**
WS66.3 CX3CR1 loss by CD8 tumor infiltrating lymphocytes mediates immune evasion in colorectal cancer
Ugo Chartral¹, Eric Hervouet¹, Maxime Fredon¹, Nawfel Adib¹, Pauline Martin¹, Sylvain Simon², Paul Peixoto¹, Adeline Bouard¹, Syrine Abdeljaoued¹, Kathleen Ducoin¹, Nathalie Labarriere¹, Yann Godet¹, Angélique Viennot¹, Christophe Borg¹, Marie Kroemer¹, Romain Loyon¹ (*France, ²USA*)
- 11:45**
WS66.4 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**
WS66.5 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**
WS66.6 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 Viennot, Franck Monnien, Alexandre Doussot, Romain Loyon, Christophe Borg (*France*)
- 12:15** Discussion

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LIFFEY MEETING ROOM 2 | 11:15-12:30

WORKSHOP 67 - GLYCOSYLATION

- 11:15**
WS67.1 Investigating the effects of targeting stromal cell sialylation on the tumour immune microenvironment in colorectal cancer
Aoise O'Neill¹, Hannah Egan¹, Norashikin Zakaria¹, Oliver Treacy¹, Sean Hynes¹, Aisling Hogan¹, Jenny Che², Li Peng², Aideen Ryan¹ (¹Ireland, ²USA)
- 11:25**
WS67.2 N-glycosylation shapes the thymic differentiation of gd T-cells
Rúben Pinheiro, Beatriz Santos-Pereira, Eduarda Leite-Gomes, Inês Alves, Salomé S. Pinho, Bruno Silva-Santos (Portugal)
- 11:35**
WS67.3 Siglec-1/CD169+ macrophages orchestrate immune reaction and matrix deposition in pancreatic cancer
Ana Hennino¹, Kevin Thierry¹, Melissa Masmoudi¹, Zhichong Wu² (¹France, ²China)
- 11:45**
WS67.4 Glycosylation of $\gamma\delta$ T cells defines its activity and function associated with autoimmunity
Beatriz Santos-Pereira, Inês Alves, Manuel Vicente, Ana Campar, Carlos Vasconcelos, António Marinho, Salomé S. Pinho (Portugal)
- 11:55**
WS67.5 The interaction between TLR4 and sialic acid governs monocyte phenotype variations
Loise Råberg, Alexandra Stubelius (Sweden)
- 12:05**
WS67.6 T cell glycosylation as a key player during colitis-associated carcinogenesis
Eduarda Leite-Gomes¹, Mariana Silva¹, Ana M. Dias¹, Guilherme Faria¹, Ângela Fernandes¹, Rafaela Nogueira¹, Beatriz Santos-Pereira¹, Henrique Fernandes-Mendes¹, M^a Jesus Fernández-Aceñero², Carlos Taxonera², Paula Lago¹, Ricardo Marcos-Pinto¹, Salomé S. Pinho¹ (¹Portugal, ²Spain)
- 12:15** Discussion

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LIFFEY MEETING ROOM 3 | 11:15-12:30

WORKSHOP 68 - TRANSLATIONAL CANCER IMMUNOLOGY

- 11:15**
WS68.1 Lymphatic-derived oxysterols promote immunity and response to immunotherapy in melanoma
Mengzhu Sun¹, Laure Garnier¹, Chen Wang¹, Julien Angelillo¹, Julien Montorfani¹, Martin Roumain², Dale Brighthouse¹, Nadine Fournier¹, Tatiana Petrova¹, Camilla Jandus¹, Daniel Speiser¹, Jean-Marc Llobaccaro³, Manfred Kopf¹, Caroline Pot-kreis¹, Christoph Scheiermann^{1,4}, Giulio Muccioli², Abhishek D. Garg², Stéphanie Hugues¹ (¹Switzerland, ²Belgium, ³France, ⁴Germany)
- 11:25**
WS68.2 Profiling CRC liver metastasis immune microenvironment at steady state and after pre-surgical therapy
Cristina Faccani (*Italy*)
- 11:35**
WS68.3 Complement activation sustains tumor progression and vasiveness in human and mouse colorectal cancer - CRC
Elena Magrini¹, Kevin Berthenet¹, Monica Dambra¹, Luna Cordeiro Minute¹, Giovanni Pezone¹, Fabio Grizzi¹, Roberta Carrierio¹, Fabio Pasqualini¹, Sarah Mapelli¹, Sebastien Jaillon¹, Alberto Mantovani^{1,2}, Cecilia Garlanda¹ (*Italy*, ²United Kingdom)
- 11:45**
WS68.4 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, Ausra Teiserskiene¹, Alex Eustace¹, Richard Kennedy¹, Joshua LaBaer², William Gallagher¹, Bryan Hennessy¹, John Crown¹ (*Ireland*, ²USA)
- 11:55**
WS68.5 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**
WS68.6 Understanding the mechanism of cancer-associated fibroblast subpopulation reprogramming-mediated immunomodulation in colorectal cancer
Lei Lei, Eileen Reidy, Niamh Leonard, Aoise O'Neill, Oliver Treacy, Louise Rabbitt, Catherine Timon, Merah Al-Busaidy, Aisling Hogan, Sean Hynes, Aideen Ryan (*Ireland*)
- 12:15** Discussion

WEDNESDAY, 4 SEPTEMBER 2024

AUDITORIUM | 13:30-14:15

KEYNOTE LECTURE 3

Chairs: **Tracy Hussell** (*United Kingdom*),
Noushin 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: **Kathrin De la Rosa** (*Germany*), **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

WEDNESDAY, 4 SEPTEMBER 2024

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

WEDNESDAY, 4 SEPTEMBER 2024

WICKLOW HALL 2 | 14:25-15:40

WORKSHOP 69 - CANCER IMMUNOTHERAPIES

- 14:25** Development of a soluble form of TIGIT with immune modulatory property
WS69.1 **Namrata Ganguli, Dibyendu Samanta** (*India*)
- 14:35** Targeting SUMOylation pathway triggers IFN-I-dependent activation of natural killer cells against acute myeloid leukemias
WS69.2 **Rawan Hallal, Denis Tempe, Marion De Toledo, Ludovic Gabellier, Guillaume Bossis** (*France*)
- 14:45** Using nanoparticles as artificial antigen presenting cells to activate human CD4 T cells for immunotherapy
WS69.3 **Si-Sim Kang, Ariel Isser, Jonathan Schneck** (*USA*)
- 14:55** Potent CD8+ T cell effector functions induced by NaCl in cancer immunotherapy
WS69.4 **Caterina Scirgolea, Rosa Sottile, Marco De Luca, Alberto Susana, Enrico Lugli** (*Italy*)
- 15:05** A novel combined treatment approach for pancreatic ductal adenocarcinoma enhances immune response and tumour reduction
WS69.5 **Immacolata Maietta, Rosana Simón Vázquez, Africa González Fernández** (*Spain*)
- 15:15** CD69-deficiency confers susceptibility to anti-PD1-induced myocarditis
WS69.6 **Enrique Ortega-Sollero, Rosa Jiménez-Alejandre, Raquel Sánchez-Díaz, Pilar Martin** (*Spain*)
- 15:25** Discussion

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY HALL 2 | 14:25-15:40

WORKSHOP 70 - IMMUNITY IN RESPIRATORY INFECTIONS

- 14:25**
WS70.1 Developing bispecific antibody for sustained suppression of influenza virus
Romila Moirangthem¹, Sapir Cordela¹, Dina khateeb, Ben Shor¹, Ivan Kosik², Dina Schneidman Duhovny¹, Michal Mandelboim¹, Friederike Jönsson³, Jonathan W. Yewdell², Timothée Bruel³, Yotam Bar-On¹ (¹Israel, ²USA, ³France)
- 14:35**
WS70.2 Myeloid-derived OLAH (oleoyl-ACP hydrolase) and its main catalytic products act as early biomarkers of life-threatening illness from diverse viral respiratory infections
Jeremy Chase Crawford¹, Xiaoxiao Jia², Robert C. Mettelman¹, Heather S. Smallwood¹, Amanda M. Green¹, Lee-Ann Van de Velde¹, Ryan S. Thwaites³, Tanya Novak¹, Adrienne G. Randolph¹, Paul Thomas¹, Tim Flerlage¹, Zhongfang Wang^{1,2}, Brendon Y. Chua², Katherine Kedzierska^{1,2} (¹USA, ²Australia, ³United Kingdom, ⁴China)
- 14:45**
WS70.3 Leptin is expressed in lung granulomas of *Mycobacterium tuberculosis*-infected DBA/2 mice and impairs anti-mycobacterial capacity of immune cells
Claudia La Rocca, Carla Palma, Maria Teresa Lepore, Carla Bromuro, Cristiana Barbati, Vincenzo Gigantino, Fortunata Carbone, Giuseppe Matarese (Italy)
- 14:55**
WS70.4 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
Lucas Arendholz, Lev Petrov, Annika Elisa Stein, Cornelia Heindrich, Kirsten Wittke, Laura Kim, Franziska Sotzny, Janina Behrens, Martín Álvarez Puga, Christiana Franke, Harald Prüß, Judith Bellmann-Strobl, Uta Behrends, Susen Burock, Carsten Finke, Carmen Scheibenbogen, Birgit Sawitzki (Germany)
- 15:05**
WS70.5 Study of *Bdellovibrio bacteriovorus* as a live antibiotic against *Mycobacterium tuberculosis*
Archana Singh, Vidushi Sharma, Alisha Arora, Deepak Vats (India)
- 15:15**
WS70.6 Tissue-specific immunophenotyping reveals divergent immune responses to *Mycobacterium tuberculosis* in lung parenchyma and vasculature of tuberculosis mice model
Sergio Diaz 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

WEDNESDAY, 4 SEPTEMBER 2024**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 Sigal^{1,2}, Catherine Riou¹, Wendy Burgers¹ (¹South Africa, ²Germany)
- 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 Mauras, Caroline Manet, Marco Leonec, Camille Ludot, Sophie Luccantoni, Pauline Maisonnasse, Flavie Misplon, Yaël Glasson, Laure-Agnes Chepeaux, Laetitia Bossevot, Julien Lemaître, Francis Relouzat, Laura Junges, 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 Buisman, 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. Engelhardt³, Ernst J. Verschoor¹, Marit J. van Gils¹, Willy M. Bogers¹, Manuel J.T. Carrondo², Edmond J. Remarque¹, Gerrit Koopman¹ (¹Netherlands, ²Portugal, ³United 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 Trüb¹, Etori Aguiar Moreira¹, Péter Demeter Túrós¹, Llorenç Grau-Roma¹, Jacob Schön², Inês Berenguer Veiga¹, Annika Kratzel¹, Jenna N. Kelly¹, Melanie Brügger¹, Charaf Benarafa¹, Donata Hoffmann², Martin Beer², Volker Thiel¹ (¹Switzerland, ²Germany)
- 15:25** Discussion

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY HALL 1 | 14:25-15:40

WORKSHOP 72 - INNATE IMMUNITY IN CANCER II

- 14:25**
WS72.1 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**
WS72.2 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**
WS72.3 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 Mechta-Grigoriou¹, Diego Sebastian Amigorena¹, Emanuela Romano¹ (*¹France, ²USA*)
- 14:55**
WS72.4 Wiring the transcription factor network to prime Natural Killer anti-tumor immunity in triple-negative breast cancer
Veronica Manicardi, Gloria Manzotti, Elisa Salviato, Federica Torricelli, Elisa Gasparini, Alessia Ciarrocchi, Francesca Reggiani (*Italy*)
- 15:05**
WS72.5 PD-L1 ligation enhances NK cell anti-tumor function by inducing a metabolic shift
Katja Srpan, Kyle Lupo, Katharine Hsu (*USA*)
- 15:15**
WS72.6 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**
WS73.1 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**
WS73.2 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**
WS73.3 Antiviral protective signature of V δ 2 T cells in pediatric patients after $\alpha\beta$ /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**
WS73.4 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**
WS73.5 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**
WS73.6 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 Iannaccone¹ (¹Italy, ²Germany)
- 15:25** Discussion

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY MEETING ROOM 3 | 14:25-15:40

**WORKSHOP 74 - TRIGGERS OF AUTOIMMUNE AND
INFLAMMATORY DISEASE**

- 14:25**
WS74.1 Tlr7 bi-allelism defines a functionally distinct B cell subset and drives systemic autoimmunity
Léa Ferrayé, Charles-Henry Miquel, Berenice Faz-Lopez, Magali Savignac, Jean-Charles Guéry (France)
- 14:35**
WS74.2 Biological effect of cytokine specific auto-antibodies on immune responses in a healthy population
Florian Dubois¹, Jakob Hjorth Von Stemmann¹, Violaine Saint-André¹, Vincent Bondet¹, Celine Posseme¹, Bruno Charbit¹, Lluís Quintana-Murci¹, Morten Bagge Hansen^{1,2}, Sisse Rye Ostrowski^{1,2}, Darragh Duffy¹ (¹France, ²Denmark)
- 14:45**
WS74.3 Exploratory study of the utility of the detection of licroRNAs in urine of patients with immune-mediated inflammatory diseases
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)
- 14:55**
WS74.4 Gain-of-function human UNC93B1 variants as a cause of type I interferonopathy via enhanced TLR7 and TLR8 signalling
Clémence David¹, Carlos Arango-Franco¹, Mihaly Badonyi², Julien Fouchet¹, Gillian Rice², Blaise Didry-Barca¹, Lucie Maisonneuve¹, Luis Seabra¹, Robin Kechiche¹, Cécile Masson¹, Aurelie Cobat¹, Laurent Abel¹, Estelle Talouarn¹, Vivien Beziat¹, Caroline Deswarte¹, Kate Livingstone², Brigitte Bader-Meunier¹, Joseph Marsh², Jean-Laurent Casanova^{1,3}, Yanick Crow^{1,2}, Bénédicte Manoury¹, Marie-Louise Frémond¹, Jonathan Bohlen¹, Alice Lepelley¹ (¹France, ²United Kingdom, ³USA)
- 15:05**
WS74.5 Deciphering the impact of epigenetic imprinting for T cell differentiation in humans using an induced pluripotent stem cell (iPSC)-based in vitro model
Marcel Finke, Christopher Kressler, Frederik Hamm, Anne Schulze, Ramonique Lim, Harald Stachelscheid, Julia K Polansky (Germany)
- 15:15**
WS74.6 Interleukin-17-induced granulopoiesis alters neuroautoimmune susceptibility in a mouse model of multiple sclerosis
Katlynn Carter, Rebecca Jasser, Michaela Blanford, Tommy Regen, Ari Waisman (Germany)
- 15:25**
Discussion
A

UDITORIUM | 15:50-16:20

Closing Ceremony

POSTER SESSION 1**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 Krausov, Pavla Tborsk, Dmitry Stakheev, Pavol Lukch, Lenka Rajsiglov, Luca Vannucci, Daniel Smrř (*Czech Republic*)
- P1.01.05** Tertiary lymphoid structure-related immune infiltrates in NSCLC tumor lesions correlate with low tumor-reactivity of TIL products
Suzanne Castenmiller, Nandhini Kanagasabesan, Aurelie Guislain, Benoit Nicolet, Marleen van Loenen, Kim Monkhorst, Alexander Veenhof, Egbert Smit, Koen Hartemink, John Haanen, Rosa de Groot, Monika Wolkers (*Netherlands*)
- 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 (¹*Ireland*, ²*United 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, Batrice Turcq¹, Dany Anglicheau¹, Benoit Rousseau¹, Edouard Forcade¹, Bruno Silva-Santos², Pierre Merville¹, Julie Dechanet-Merville¹, Lionel Couzi¹ (¹*France*, ²*Portugal*)
- 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*)

POSTER SESSION 1

- P1.01.10** Exploring DARPins to detect MHC class I restricted antigen presentation
Sandra Schmid, Fabienne Läderach, Obinna Chijioke, Birgit Dreier, Andreas Plückthun², Christian Münz (Switzerland)
- P1.01.11** CAR-T cell therapy for solid tumors against a carbohydrate target
Beatriz Amorós-Pérez, Benigno Rivas-Pardo, Raquel González-García, Irene Real-Arévalo, Marcos Viñuela-Martín, Oana Hangiu, Oscar Aguilar Sopena, Pedro Roda Navarro, Luis Álvarez-Vallina, Manuel María Gómez del Moral, Jose Luis Subiza, Eduardo Martínez-Naves (Spain)
- P1.01.12** Cytotoxicity of V δ 1 $\gamma\delta$ T cells isolated from healthy donor PBMCs against colorectal cancer cells
Amy Walsh, Anthonia Ekperuoh, Rosemary O'Connor, Henry Paul Redmond, Cathriona Foley (Ireland)
- P1.01.13** Epigenetic editing for conventional to regulatory T cell reprogramming
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)
- P1.01.14** In vitro targeting of non-hematological tumour cells by immortalized NK cells engineered with a CD6-based chimeric antigen receptor
Lucía Aragón-Serrano¹, Laura Carrillo-Serradell¹, Violeta Planells-Romeo¹, Cristina Català¹, Michael O'Dwyer², María Velasco-de Andrés¹, Francisco Lozano¹ (¹Spain, ²Ireland)
- P1.01.15** Eosinophil counts in anti-CD19 CAR-T cell therapy. Could they predict efficacy and prognosis?
Cristina Arnaldos Pérez, Marta Español-Rego, Valentín Ortiz-Maldonado, Núria Martínez Cibrián, Susana Rives, Anna Alonso Saladrígues, Sergio Navarro Velázquez, Leticia Alserawan, Libertad Heredia, Daniel Jiménez, Catherina De Guzman, Mercedes Montoro Lorite, Álvaro Urbano Ispizua, Julio Delgado, Mariona Pascal, Manel Juan Otero, E. Azucena González Navarro (Spain)
- P1.01.16** Study on the effect of corticosteroids on lung development with the SSEA1+ stem/progenitor cells derived lung organoid model
Yan-Ru Cho, Bor-Luen Chiang (Taiwan)
- P1.01.17** Galectin-1-deficient Foxp3+ regulatory T cells show limited long-term protection in experimental inflammatory bowel disease
Raquel Fernández-Pérez, Rebeca Sánchez-Domínguez, Omaira Alberquilla, Miguel A. Martín, Juan Antonio Bueren, Marina Garin (Spain)
- P1.01.18** Antibacterial activity of KHYG-1 cells stably expressing a lymphoid scavenger-like receptor-based chimeric antigen receptor
Violeta Planells-Romeo¹, Laura Carrillo-Serradell¹, Lucía Aragón-Serrano¹, Cristina Català¹, Michael O'Dwyer², María Velasco-de Andrés¹, Francisco Lozano¹ (¹Spain, ²Ireland)
- P1.01.19** Search and find: regulatory T cells
Katja Leben Zupet¹, Kristina Manzoni², Jon Žnidarčič¹, Karen Butina Ogorelec¹, Andrea Šarac¹, Maša Čater¹, Simon Horvat¹, Anže Smole¹, Jelka Pohar¹ (¹Slovenia, ²Croatia)

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)

P1.02 ALLERGY AND ASTHMA

- P1.02.01** Quantitative transcriptome analysis of purified equine mast cells identifies a dominant mucosal mast cell population
Srinivas Akula, Miia Riihimäki, 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 Freiburger (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 Martin 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-Tejkl¹, Mikhail Tulaev¹, Walter Keller¹, Thomas Schleiderer¹, Rudolf Valenta¹, Susanne Vrtala¹ (¹Austria, ²France)
- 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 $\beta 1$ 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
Martín 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)

POSTER SESSION 1

- 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-Schaffer^{1,2}, Marcus Maurer¹, Stefan Frischbutter¹ (¹Germany, 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 Martínez-Cano, Aitana Alberdi Callejo, María Catalá, José González-Fernández, Celia González-Agudo, Reyes Tejedor-Lázaro, Fátima González-Chantal, Carlos Blanco-Guerra, Arantzazu 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*)
- P1.02.23** Interleukin-1 β 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*)

POSTER SESSION 1

- 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, María Pilar Osácar Puyoles, Sergio Zuheros Serrano, Carlos Colás Sanz, Luis Martínez-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-Santamaria, 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, Burkhard 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)
- 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 (¹Belgium, 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 Kopelentova, 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, Youssr Galai, Melika Ben Ahmed, Samar Samoud (Tunisia)

POSTER SESSION 1

- 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
Nubia Sabrina Martins, Guilherme Rodrigues de Mira, Thais Fernanda de Campos Fraga-Silva, Médèton Mahoussi Michaël Boko, Ualter Guilherme Cipriano Rosa, Maíra Nilson Benatti, Daniel Rodrigues, Leandra Naira Zambelli Ramalho, Andrea de Cássia Vernier Antunes Cetlin, Elcio Oliveira Vianna, Rita Tostes, Lívia Soares Zaramela, Vania Luiza Deperon Bonato (*Brazil*)
- 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*)

P1.03 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*)

POSTER SESSION 1

- 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*)
- 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 (*¹Spain, ²France*)
- P1.03.12** Plasmacytoid dendritic cells, but not AS-DC, cross-present antigens from HIV-infected cells
Chloe Admane, Stéphane Isnard, Etienne Hatton, Anne Hosmalin (*France*)

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. Roetschke^{1,2}, Yehor Horokhovskiy², Henning Urlaub^{1,2}, Juliane Liepe², Michele Mishto¹, Anna Schurich¹ (*¹United Kingdom, ²Germany*)
- 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, Maria Dolores Mansilla Ruiz, Maria del Carmen Rodriguez, Maria Ruiz (*Spain*)

POSTER SESSION 1

- 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
Daide Proietto¹, Elena Torreggiani¹, Beatrice Dallon¹, Martina De Laurentis¹, Eleonora Gallerani¹, Valentina Albanese¹, Victor Appay², Lacey Sian Llewellyn³, Salvatore Pacifico¹, David A. Price³, Antonella Caputo¹, Riccardo Gavioli¹, Francesco Nicoli¹ (*¹Italy, ²France, ³United Kingdom*)
- P1.04.08** Structure-based IgE-epitope investigation of the major cat allergen Fel d 4
Nikolina Todorovic¹, Daria Trifonova^{1,2}, Mirela Curin¹, Laszlo Schooltink¹, Theo Sagmeister¹, Christoph Grininger¹, Nina Gottstein¹, Renata Kiss¹, Tea Pavkov-Keller¹, Alexander Karaulov², Rudolf Valenta^{1,2}, Walter Keller¹ (*¹Austria, ²Russian Federation*)
- 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 Zvirbliene¹, Indre Kucinskaite-Kodze¹ (*¹Lithuania, 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 Thalassinou¹, Ian Giles¹, Anisur Rahman¹, Mihaela Delcea², Paul Dalby¹, Thomas McDonnell¹ (*¹United 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, Mugdha M, Siva V (*India*)

POSTER SESSION 1**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 Zezina¹, Verawan Boonsanay-Michel¹, Özen Sercan-Alp¹, Dieter Schmoll¹, Zhaohui Du², Thomas Kreutzberg¹, Michael Tsabar², Giorgio Gaglia², Andre Kurlovs², David Habel², Terry K. Means², Clément Chatelain², Heming Xing², Virginia Savova², Corneliu A. Bodea², Matthias Herrmann¹, Emanuele de Rinaldis² (¹*Germany*, ²*USA*)
- 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*)

P1.06 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 Tejada González¹, Sara Hernandez-Perez², Pieta Mattila¹ (¹*Finland*, ²*United 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*)

POSTER SESSION 1

- 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 Saarela^{1,2}, Juha Grönholm¹ (¹Finland, ²Norway)
- P1.06.06** Enhanced antibody responses in CD19-Cre mice
Sara Hernandez-Perez^{1,2}, Diogo M. Cunha², Pieta Mattila² (¹United 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 (¹Finland, 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 (¹United 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)

POSTER SESSION 1

- 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 Degauque, 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 Castaño, 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
Abdurrahman Simsek, Muhammed Ali Kizmaz, Tugce Bozkurt, Eren Cagan, Ali Eren Iskin, Ferah Budak (*Turkey*)
- 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*)

POSTER SESSION 1

- P1.06.24** Role of the Toll-like receptor homologue CD180 in B-cell dysfunction in systemic sclerosis
Szabina Erdő-Bonyár, Judit Meggyes-Rapp, Tünde Minier, Gábor Kumánovics, László Czírák, Tímea Berki, Diána Simon (Hungary)
- 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)
- P1.06.26** The B-cell function in patients with chronic lymphocytic leukemia
Aviwe Ntsethe, Bongani Nkambule, Phiwayinkosi Vusi Dladla (South Africa)
- P1.06.27** Mass cytometry immunophenotyping reveals significantly decreased frequencies of circulating B cells in autoimmune polyendocrine syndrome type 1
Shahinul Islam, Bergithe E. Oftedal, Kari Lima, Anders P. Jørgensen, Jorn Skavland, Eysteinn S. Husebye, Anette S.B Wolff (Norway)
- P1.06.28** Helicobacter infection increases the mitochondrial metabolism of B cells
Zeynep Nur Senturk, Bahar Deniz, Ayça Sayı Yazgan (Turkey)

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 Kurzypp, Vincent Luscombe, Pinqi Wang, Isobel Davis, Annabell Roberti, Rachel Exley, Angela Russell, 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 Cieślík, 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 Hoerauf^{1,2}, Tomabu Adjobimey^{1,3} (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)
- P1.07.06** 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 Geuking¹, Cláudio Meneses², Nathan Peters¹ (¹Canada; ²USA)

POSTER SESSION 1

- P1.07.07** 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)
- P1.07.08** Repeated *Plasmodium falciparum* infection in humans drives the clonal expansion of an adaptive $\gamma\delta$ T cell repertoire
Anouk von Borstel¹, Priyanka Chevour^{1,2}, Daniel Arsovski^{1,2}, Jamie Rossjohn¹, Edward Giles¹, Boubacar Traore³, Kim Williamson⁴, Kirsten Lyke⁴, Peter Crompton⁴, Martin Davey^{1,2} (¹Australia, ²United Kingdom, ³Mali, ⁴USA)
- P1.07.09** Dynamics of vaginal immunity during murine filarial and Herpes-Simplex-Virus-2 co-infection
Lisa Wadehul¹, Alexander Palmen¹, Kathrin Arndts¹, Gnatoulma Katawa², William Horsnell^{3,4}, Achim Hoerauf¹, Manuel Ritter¹ (¹Germany, ²Togo, ³South Africa, ⁴United Kingdom)
- P1.07.10** 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 Esparcia-Pinedo, Javier Aspa, Julio Ancochea, Arantzazu Alfranca, Francisco Sánchez-Madrid (Spain)
- P1.07.11** 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 ill patients: insights from experimental endotoxemia and intensive care patients
Schrijver Irene¹, Herderschee 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 (¹Switzerland, ²Netherlands)
- 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)

POSTER SESSION 1

- 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 Wilk^{1,2}, Kingston Mills¹ (¹Ireland, ²Poland)
- P1.07.22** *Staphylococcus aureus* biofilm-associated component PNAG triggers immune-chemotaxis
Reza Gheitasi, Daniela Roell, Daniel Weiss, Mario Mueller, Alexander Mosig, Oliwia Makarewicz, Mathias Pletz (Germany)
- 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)
- P1.07.26** Dermaseptin S4 improves the innate immunity of gingival cells against oral pathogens (*C. albicans* and *E. faecalis*)
Mahmoud Rouabhia, Jamila Chakir (Canada)
- P1.07.27** Innate immunity in tuberculosis among type 2 diabetes patients: characterization and clinical correlations
Alisha Arora, Archana Singh, Yashdeep Gupta, Anant Mohan (India)
- P1.07.28** Distinct profiles of cytokines and chemokines in cerebrospinal fluid can differentiate bacterial meningitis from viral meningitis
Ramona Cerasela Caragheorgheopol, Cătălin Țucureanu, Veronica Lazăr, Simin-Aysel Florescu, Dragoș Ștefan Lazăr, Iuliana Caraș (Romania)

POSTER SESSION 1

- 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 Muñoz, 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, Sunniva Todnem Sakkestad, Oda Barth Vedøy, Hans Steinsland, Dimitrios Kleftogiannis, Kurt Hanevik (Norway)
- P1.07.32** Elucidating the role of IL4/IL13 signaling in tuberculous granuloma formation
Miriam Herbert, Mark R. Cronan¹ (Germany)
- P1.07.33** Exploring distinct T-cell subsets in the upper respiratory tract during Influenza A and Bordetella pertussis infections
Anna Kratochvilová, Jana Holubová, Ondrej Stanek, Veronika Niederlová, Juraj Michálik, 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
Joaquín Pellegrini¹, Anne Keriell¹, Laurent Gorvel¹, Sean Hanniffy¹, Vilma Arce Gorvel¹, Mile Bosilkovski¹, Javier Solera², Stéphane Méresse¹, Sylvie Mémet¹, Jean Pierre Gorvel¹ (¹France, ²Spain)
- P1.07.36** The role of extracellular vesicles in oral squamous cell carcinoma- *Candida* interaction
Éva Veres, Zóra Szilovics, Dóra Adamecz, Gergő Svorenj, 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 $\gamma\delta$ T 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)

POSTER SESSION 1

- 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 Epstein-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
Mafalda Meunier, João Durães-Oliveira, Armanda Rodrigues, Ana Valério-Bolas, Joana Palma-Marques, Flávia Fróis-Martins, Rui Ferreira, Inês Cardoso, Graça Alexandre-Pires, Telmo Nunes, Isabel Pereira da Fonseca, Gabriela Santos-Gomes (Portugal)
- 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-Maëlle Fovet, Laetitia Lacroix, Camille Pimienta, Julie Morin, Nathalie Bosquet, Quentin Pascal, Francis Relouzat, Elisabeth Menu, Roger Le Grand, Nabila Seddiki (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, Sujai 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)
- P1.07.51** Towards novel COVID-19 therapy based on natural products with anti-SARS-CoV-2 activity
Dorentina Osmani, Stine Hellestø, Fan Zhou, Manpreet Hans, Vilde Sigfrid Skar Bulling, Malgorzata Dominika Szymczak, Knut Teigen, Rebecca Jane Cox Brokstad, Marta Kaminska, Torgils Fossen, Silke Appel (Norway)

POSTER SESSION 1

- 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 Wyszomolek¹, Agnieszka Razim¹, Anna Schmid¹, Jan Dvořák², Martin Horn², Adrian Leontovych², Michael Mareš², Muhammed Faruk Saglam¹, Viktor Cerny¹, Aleksandra Inic-Kanada¹, Ursula Wiedermann Schmidt¹, Irma Schabussova¹ (¹Austria, ²Czech 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, Milda Plečkaitytė (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 (¹Ireland, ²United 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, Danka Grčević², Barbara Bottazzi¹, Alberto Mantovani^{1,3}, Cristina Sobacchi¹, Antonio Inforzato¹ (¹Italy, ²Croatia, ³United 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 Muñoz, 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 Wass, Anna Grankvist, Beatrice Bergström, Catharina Lewerin, Christine Lingblom, Christine Wennerås (Sweden)

POSTER SESSION 1

- 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)

P1.08 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)
- P1.08.04** Seumetry: a user-friendly R package for high-dimensional flow and mass cytometry data analysis
Malte Borggrewe, Markus Flosbach, Madeleine Bunders, Stefan Bonn (Germany)
- P1.08.05** Identification of transcriptional regulatory networks that control variable human immune responses
Anthony Bertrand, Florian Dubois, Lluís 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, Lluís 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, Julien Reyes, Brigitte Nanan, Gabriela Pinget, Lucie Kraftova, Thomas Ashhurst, Felix Marsh-wakefield, Claire Wishart, Jian Tan, Peter Hsu, Nicholas King, Laurence Macia, Ralph Nanan (Australia)
- P1.08.08** Comprehensive post-translational modifications mapping of centrosomes in T cell activation
Marta Lozano-Prieto, Noa Martín Cofreces, 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)

POSTER SESSION 1

- 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, Luís 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 Sotzny, 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-Alfárez (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)
- P1.08.13** A simple and robust bulk TCR sequencing-based method for identification of antigen-specific TCR $\alpha\beta$ pairs
Evgeny Egorov¹, Ekaterina Serebrovskaia¹, Lilian Andrea Martinez Carrera¹, Nojan Jelveh¹, Kevin Bisdorf¹, Simona Karolin Matzke¹, Svetlana Khorkova¹, Andreas Bosio¹, Dmitry Chudakov², Olaf Hardt¹ (¹Germany, 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 (¹France, ²USA)
- P1.08.15** Glycosyltransferase and glycosidase changes in Natural Killer (NK) cells after cytokine stimulation; a bioinformatic analysis
Catherine Bannon, Roisín 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 (¹Spain, 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)

POSTER SESSION 1

- 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)
- P1.08.21** An open, integrated resource for understanding peptide repertoire tuning in human major histocompatibility complex (MHC) class I alleles
Chris Thorpe (United Kingdom)
- 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 Chudakov^{1,3}, Alexander Komkov¹ (¹United 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)
- P1.08.24** TNF receptor superfamily member 10B (TNFRSF10B) as a novel survival-associated target in thymoma
Havva Ozgen Eyupoglu, Erol Eyupoglu, Sukru Tuzmen (Turkey)
- 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 (¹Ireland, ²USA)

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 Alsaed, Johannes Smolander, Linh Lin, Lilja Lahtinen, Hanna Laitinen, Mikko Rasanen, Ville Heistman, Shadi Jansouz, Mari Ainola, Eva Sutinen, Pipsa Saharinen, Ilkka Ilonen, 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)

POSTER SESSION 1

- 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, Maeve 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 Cambroner, 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 Cambroner, 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-Garcia, 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 Cundell, 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-Zbulj¹, 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 Rätty, José Alberto Villacorta Hidalgo, Susanne Höher-Peters, Gregor Winkels (Germany)

POSTER SESSION 1

- 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 Leone¹, Filippo Conti¹, Ilenia Cammarata^{1,6}, Stephanie Kucykowicz², Gloryanne Aidoo-Micah², Daniele Accapezzato¹, Laura Forcina¹, Andrea Picchetto¹, Massimo Chiaretti¹, Giancarlo Dambrosio¹, Giuseppe Giannini¹, Francesca Belardinilli¹, Gian Luca Grazi¹, Antonio Musarò¹, Mala K. Maini², Doriana Fruci¹, Ana Hennino¹, Vincenzo Barnaba¹ (¹Italy, ²United Kingdom)
- P1.09.15** Split identity of IFN γ in remodeling of undifferentiated pleomorphic sarcoma cell line JBT19 towards chemotherapeutic resistance and anti-tumor immunity and its implication for adoptive cellular immunotherapy
Pavla Tábořská, Dmitry Stakheev, Daniel Smrž (Czech Republic)
- 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 (¹Slovenia, 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 Coccimiglio, 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 Martínez Sánchez¹, Lourdes Gimeno Arias¹, Marta Pares¹, Sebastian Heidt², Fran Claas², Matthias Niemann³, Eric Spierings³, Victor Pallaruelo-Santamaría¹, Cristina Fillat¹, Alfredo Minguela Puras¹ (¹Spain, 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)

POSTER SESSION 1

- 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, Mihailo Jovanovic, Nevena Gajovic (Serbia)
- P1.09.25** Phenotypic and functional analysis of cytokine-induced memory-like natural killer cells
Isabel María Vallejo Bermúdez, Monica Espinar García, Carmen María 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)
- P1.09.27** Role of ion channels in CAR T cells
Ghofrane Medyouni, Vivien Jusztsus, Orsolya Vörös, György Panyi, Péter Béla Hajdu (Hungary)
- P1.09.28** Miniaturization of T cell cultivation and utilization for process development
Hanne Haslene-Hox, Hanne Hein Trøen, Margrét Sigfúsdóttir, Ane Marit Wågbø, Lea Rosselle, Fatemeh Kaveh, Maxi-Lu Boeschen, Evan Zynda, Tuva Holt Hereng, Sebastien Walchli, Håvard Sletta, Else Marit Inderberg, Geir Klinkenberg (Norway)
- 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 Bertaina¹, Paola Paci¹, Linda Quatrini¹, Matilde Sinibaldi¹, Concetta Quintarelli¹, Biagio De Angelis¹, Franco Locatelli¹, Lorenzo Moretta¹, Ignazio Caruana², Paola Vacca¹ (¹Italy, 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 actuatable reservoir to treat ovarian cancer
Hannah Prendeville, Aoibhín 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)

POSTER SESSION 1

- 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 ICOSL isoforms recurrently expressed in Sezary syndrome
Loubna Oumeslakht^{1,2}, Armand Bensussan^{1,2}, Jerome Giustiniani², Sanae Benmkaddem¹, Nicolas Ortonne² (¹Morocco, ²France)
- P1.09.36** Leveraging single B cell technologies in the development of anti-PD-L1 antibodies
Ali Mert Sencer, Bilgi Güngör, 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, Veyrrat-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)
- P1.09.39** Preparación de nanopartículas para evaluación del efecto antitumoral en un modelo de melanoma
Ariel Ramírez 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 Cohen, Shakir Hasan, Stephen Li, Christina Loh, Dawar Pasha (Canada)
- 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 Birsén, Marguerite Vignon, Didier Bouscary, Justine Decroocq, 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)

POSTER SESSION 1

- 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 Rätty, 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 García, Pascual Martínez-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)
- 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 Güçlüler 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 β 2-microglobulin Levels in treatment-naïve patients with chronic lymphocytic Leukaemia
Zekhethelo Mkhwanazi, Aviwe Ntsethe, Bongani Nkambule, Tawanda Nyambuya, Phiwayinkosi Dlodla (South Africa)
- P1.09.52** Developing new and effective strategies for adoptive T- cell therapy in pediatric gliomas
Or Zohar, Maria Castro, Adi Anaki, Rachela Popovtzer, Dinorah Friedmann-Morvinski (Israel)
- P1.09.54** Identification of different subsets of cytokine-induced memory-like NK cells according to their phenotypic and proteomic profile: correlation with effector function
Sofía Carreira-Santos, Marina González-Sánchez, Nelson López-Sejas, Inmaculada Jorge Cerrudo, Esther Durán, Elena Delgado, Rafael Solana Lara, Javier G. Casado, Raquel Tarazona (Spain)

POSTER SESSION 1

- P1.09.55 Tumor-specific, AAV-mediated anti-PD-1 therapy combined with CAR-NK-cells as experimental immunotherapy for glioma
Philipp Elleringmann, Florian Strassheimer, Maja Strecker, Tijna Alekseeva, Muhammed Burak Demircan, Liang Xu, Torsten Tonn, Andreas Weigert, Winfried Wels, Joachim Steinbach, Christian Buchholz, Michael Burger (Germany)
- P1.09.56 Potential of inhibition of NLRP3 inflammasome in enhancement of immunotherapy in prostate cancer
Kateřina Kalkuřov, Dmitry Stakheev, Pavla Tborsk, Jiřina Bartuřkov, Daniel Smrř (Czech Republic)
- P1.09.57 Towards the deciphering of immunological mechanisms of tumor immunotherapy-induced cardiotoxicity
Chiara Catalano, Marinos Kallikourdis (Italy)
- P1.09.58 The effect of aberrant N-glycosylation of PD-L1 on the potency of anti-PD-1 treatments
Bar Kaufman, Nofar Erlichman, Tsipi Meshel, Adit Ben-Baruch, Moshe Elkabets, Angel Porgador (Israel)
- P1.09.59 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, Catrona Dowling (Ireland)
- P1.09.60 Immunomodulatory effect of ferric/nickel nanoparticles in vitro
Lenka Rajsiglova, Dmitry Stakheev, Kateřina Krausov, Pavol Luk, Paolo Tenti, Michal Babic, Daniel Smrz, Luca Vannucci (Czech Republic)
- P1.09.61 Expression relationship of nectin-2 and immune checkpoint molecules in pancreatic cancer patients
Mualla İlknur Gndz, Rukiye Abanoz, Melek Gunindi Korkut, Berkay Yahşı, Nalan Akyrek, Fsun zmen (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
Ins Daz-Cano, Jos Gracia, Patricia Cozar, Beln 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 Lber, Corinna Grunert, Antonia Busse, Bjrn Chapuy (Germany)

POSTER SESSION 1**P1.10 CANCER VACCINES**

- P1.10.01** Development of ProsVac-INCAN: an mRNA vaccine against prostate cancer
Blanca Torres, Dora Emma Vélez Uriza, Miguel Ángel Jiménez Ríos, Greco Hernández Ramírez (Mexico)
- P1.10.02** Dendritic cell targeting using a DNA multiepitope vaccine against EGFR for active breast cancer immunotherapy
Gretel Alvarez Escalante, Mariana de Lima Stein, Luiz Severino da Silva, Silvia Beatriz Boscardin, Elaine Guadalupe Rodrigues (Brazil)
- P1.10.03** Characterization of hypoxanthine phosphoribosyltransferase 1 (HPRT1) mutated Hodgkin lymphoma cells
Amomirza Mohammad, Ines Volkmer, Alexander Emmer, Martin Staeger (Germany)
- 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 Markus¹, Özmen Cobanoglu², Sana Sayedipour³, Omar Luna⁴, Sonia Ferkel¹, David Agorku⁴, Luis Cruz³, Fernando Albericio⁴, Francois Trottein², Frauke Alves¹, Fernanda Ramos-Gomes¹ (¹Germany, ²France, ³Netherlands, ⁴Spain)

P1.11 CELL COMMUNICATION AND SIGNALING

- P1.11.01** Mapping the effect of PD1 immunoreceptor on T-cell receptor signalling
Martina Kreileder¹, 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 (¹Ireland, ²United 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 Kreileder¹, Donagh Egan¹, Vadim Zhernovkov¹, Anisha Solanki², Rajat Varma², Paul Chariou², Ian Barrett², Claus Bendtsen², Simon Dovedi², Viia Valge-Archer², Donal Brennan¹, Walter Kolch¹ (¹Ireland, ²United 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)

POSTER SESSION 1

- 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 Schmid¹, Michael Thaler¹, Viktor Cerny¹, Tamara Weinmayer¹, Bradley Whitehead³, Anke Martens⁴, Magda Skalska², Mattia Morandi⁴, Katy Schmidt¹, Marco Brucale¹, Francesco Valle¹, Magdalena Wyszomolek¹, Peter Nejsum³, Jiri Hrdy⁴, Sabina Gorska², Lukas Wisgrill⁴, Aleksandra Inic-Kanada¹, Ursula Wiedermann¹, Irma Schabussova¹ (¹Austria, ²Poland, ³Denmark, ⁴Czech 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 Schiff-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-Peinado, 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*)

P1.12 CELLULAR MECHANISMS IN INNATE IMMUNOLOGY

- P1.12.01** Cytotoxic units of innate lymphocytes and innate-like T cells as regulators of mammary gland immunity
Gioana Litscher¹, Colin Sparano¹, Marijne Vermeer¹, Chiara Detta¹, Elisa Rallo¹, Maud Mayoux¹, André Fonseca da Silva¹, Caroline Mussak¹, Stanislav Dergun¹, Nicolò Coianiz¹, Burkhard Becher¹, Vanda Juranić Lisnić², Sònia Tugues¹ (¹Switzerland, ²Croatia)
- P1.12.02** Calcium macrophage differentiation and maintenance depends on oxidative phosphorylation and fatty acid consumption
Syamantak Basu, Supriya Murthy, Isabel Karkossa, Kristin Schubert, Manuela Rossol (*Germany*)

POSTER SESSION 1

- 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
Laura Blum, Deirdre Vincent, Julia Elrod, Michaela Klinke, Jasmin Knopf, Michael Boettcher (Germany)
- P1.12.04** The metabolic profile of plasmacytoid dendritic cells from patients with systemic sclerosis
Beatriz Ferreira¹, Carolina Mazedo¹, Eduardo Dourado¹, Ana Rita Prata¹, Rafael Argüello², Iola Duarte¹, Philippe Pierre^{1,2}, Catarina Almeida¹ (¹Portugal, ²France)
- P1.12.05** Monocytes drive myofibroblast contraction in a 3D skin model used to understand fibrosis in systemic sclerosis
Djúlío Zanin da Silva^{1,2}, Nienke van Kooten¹, Theogiannis Papadimitriou¹, Daphne Dorst¹, Birgitte Walgreen¹, Elly Vitters¹, Peter van der Kraan¹, Martijn van den Bosch¹, Arjan van Caam¹, Marije Koenders¹ (¹Netherlands, ²Brazil)
- P1.12.06** Systemic immune response to cold exposure is linked to $\gamma\delta$ T cells dynamics
Daniel Vasek, Peter Holíček, František Galatík, Veronika Somova, Natalie Fikarova, Michaela Hájková, Martin Převorovský, Jitka Žurmanová, Magdalena Krulova (Czech Republic)
- 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 Migliore², Paolo Carrega¹, Grazia Vento¹, Amirhossein Gaeini¹, Gaetana Pezzino¹, Jose Freni¹, Irene Bonaccorsi¹, Gregorio Costa¹, Riccardo Cavaliere¹, Guido Ferlazzo¹, Stefania Campana¹ (¹Italy, ²USA)
- 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
Hui-Ling Chiang, Ning-Sheng Lai, Ming-Chi Lu, Chien-Hsueh Tung, Chih-Chia Yu, Yu-Ling Huang, Yi-Ling Ye (Taiwan)
- 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 (¹United Kingdom, ²Austria)
- 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
Success Amaechi, Megan Hanlon, Dumitru Anton, Mary Canavan, Sonia Sundanum, Carl Orr, Douglas Veale, Viviana Marzaioli, Ursula Fearon (Ireland)
- P1.12.12** Polyherbal formulation NOQ19 modulates human macrophage polarization and function
Asli Korkmaz, Duygu Sag (Turkey)

POSTER SESSION 1

- 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 Finlay^{1,3}, Pedro Papotto³, Judith E. Allen³, Alvaro Diaz¹ (¹Uruguay, ²United Kingdom, ³Ireland)
- P1.12.14** Truncating mutations in NFKB1 lead to decreased expression of CCDC22 and COMMD proteins thereby enhancing inflammatory response
Kristiina Silventoinen, Katariina Nurmi, Goncalo Barreto, Kari K. Eklund (Finland)
- P1.12.15** Macrophages activation upon phagocytosis of structurally different antigens
Asta Luciunaite, Milda Norkiene, Aurelija Zvirbliene (Lithuania)
- P1.12.16** Modulation of macrophage inflammatory response by Polyherbal formulation Kabasura Kudineer choornam
Duygu Unuvar, Asli Korkmaz, Duygu Sag (Turkey)
- P1.12.17** Long live the macrophages – memantine as cellular youth elixir?
Veljko Blagojević, Ivana Čuruvija, Ivana Anđelović, Marko Vasić, Radmila Miljković, Ivana Prijić, Biljana Bufan, Jasmina Djuretić (Serbia)
- P1.12.18** Mouse and human macrophages can be activated to fight cancer
Inger Øynebråten¹, Jan-Morgan Dybdal¹, Paloma Othero López¹, Petter Angell Olsen¹, Else Marit Inderberg¹, Marianne Skeie¹, Sebastien Walchli¹, Adele De Ninno², Luca Simula³, Luca Businaro², Stefan Krauss¹, Nadège Bercovici³, Alexandre Corthay¹ (¹Norway, ²Italy, ³France)
- P1.12.19** Staphylococcal enterotoxins influence the monocyte transcriptional profile and shape subsequent macrophage differentiation
Claudia Arasa Cuartiella, Manuel Mata Forsberg, Khaleda Rahman Qazi, Eva Sverremark Ekstrom (Sweden)
- P1.12.20** Quantitative proteomic analysis of natural dendritic cell subsets
Simon O'Shaughnessy, David Finlay (Ireland)
- P1.12.21** Mitochondrial fission-inducible lipid droplets in macrophage antimicrobial responses
Karoline Raven¹, Syeda Farhana Afroz², James Curson¹, Ronan Kapetanovic³, Robert Parton¹, Matthew Sweet¹ (¹Australia, ²USA, ³France)
- P1.12.22** MTADV 5-MER peptide suppresses lung fibrosis of a mouse model and inhibits human fibroblasts biological functions by targeting of SAA, which fuels fibrosis
David Naor (Israel)
- P1.12.23** 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)
- P1.12.24** IFN- γ induced plasticity in human alveolar macrophages can be resolved with IL-10: Implications for macrophage plasticity as a therapeutic target for tuberculosis
Olivia Sandby-Thomas, Zara Davies Harold, Dearbhla Murphy, Sharee Basdeo, Donal Cox, Joseph Keane (Ireland)

POSTER SESSION 1

- P1.12.25** Limosilactobacillus reuteri regulate the monocyte transcriptome and functional macrophage polarization
Khaleda Rahman Qazi, Manuel Mata Forsberg, Ludwig Lundberg, Stefan Roos, Eva Sverremark Ekstrom (Sweden)
- P1.12.26** Platelets as possible biomarker candidates to differentiate between neurodegenerative disorders
Noelia Arias Gonzalez, Marc Boigues, Marco antonio Fernandez- Sanmartin, Katrin Beyer, Eva Martínez Cáceres (Spain)
- P1.12.27** High production of IL-12p70 by human dendritic cells stimulated with combinations of pattern-recognition receptor agonists
Brian Christopher Gilmour, Alexandre Corthay, Inger Øynebråten (Norway)
- P1.12.28** NFAT is important for NK cell maturation and function
Xiaoli Lou, Yin Xiao, Cristina Chiarolla, Snigdha Majumder, Nadine Hundhausen, Boutaina El kenz, Benjamin Lunz, Friederike Berberich-Siebelt (Germany)
- P1.12.29** Immune excitation of hematopoietic stem cells
Roi Gazit (Israel)
- P1.12.30** Evaluation of NK cell anti-tumor activity by detection of subcellular nitric oxide in response to BCG treatment
Inmaculada Ruiz Lorente, Lourdes Gimeno Arias, Alicia López Abad, Maria Victoria Martínez Sánchez, Diana Ceballos Francisco, Francisco Galindo Honrubia, Pedro López Cubillana, Alfredo Minguela Puras (Spain)
- P1.12.31** Dengue virus exploits secretory autophagy mechanisms to promote viral dissemination by human dendritic cells
Anusca Rader, Alexandra Cloherty, Kharishma Patel, Tracy-Jane Eisdien, Sterre van Piggelen, Renee Schreurs, Carla Ribeiro (Netherlands)
- P1.12.32** IL-2 drives glucose flux through glycolysis and the PPP
Conor de Barra¹, Karen Slattery¹, Geraldine O'Connor², Clair Gardiner¹ (¹Ireland, ²USA)
- P1.12.33** miRNA content in subpopulations of NK cell-derived extracellular vesicles connects to different functional activity
Miriam Aarsund¹, Yunjie Wu¹, Tirill Marie Trøften Hagen¹, Kimberly Schell², Amanda Sudworth¹, Rachel Crossland², Marit Inngjerdigen¹ (¹Norway, ²United Kingdom)

P1.13 CHEMOKINES AND THEIR RECEPTORS

- P1.13.01** Dissection of neutrophil heterogeneity in glioblastoma
Lucia Zotti, Francesca Albano, Eleonora Pace, Laura Giordano, Simone Puccio, Pasquale Persico, Matteo Simonelli, Massimo Locati, Raffaella Bonecchi (Italy)

POSTER SESSION 1

P1.14 CONTROL OF INFLAMMATION AND TISSUE REPAIR

- P1.14.02** Role of PTX3 in Staphylococcus aureus-induced sepsis
Raffaella Parente¹, Francesco Scavello¹, Giada Cassanmagnago¹, Giacomo Iapichino¹, Maria Rita Fumagalli¹, Arianna Felicetta¹, Martina Tagliaferro¹, Alessia Giordano¹, Sonia Valentino¹, Sarah Mapelli¹, Gainluigi Condorelli¹, Maurizio Cecconi¹, Alessandro Protti¹, Dominique Missiakas², Cecilia Garlanda¹, Alberto Mantovani^{1,2}, Andrea Doni¹ (¹Italy, ²USA, ³United Kingdom)
- P1.14.03** Optimizing bronchoalveolar lavage yield in infectious disease immunology research: a comprehensive review
Hamida Diab (Algeria)
- P1.14.04** Loss of TLR2 signalling slows retinal degeneration in mouse models of disease
Rachel Dalton, Ema Ozaki, Natalie Hudson, Matthew Campbell, Sarah Doyle (Ireland)
- P1.14.06** Dietary fibre and its metabolites regulate alveolar macrophage transcriptional landscape and alter bone marrow progenitor phenotype
Aishat Azeez (Ireland)
- P1.14.07** The effect of Th1 and Th2 cells on properties and transcriptomic profile of mare endometrial stromal cells – an in vitro study
Anna Wójtowicz¹, Agnieszka Sadowska¹, Tomasz Molcan¹, Dawid Tobolski¹, Graca Ferreira-Dias^{1,2}, Anna Szóstek-Mioduchowska¹ (¹Poland, ²Portugal)
- P1.14.08** The disease with a thousand faces: what's neutrophils' portrait?
Sandrine Huot, Paul R. Fortin, Cynthia Laflamme, Philippe Tessier, Martin Pelletier, Marc Pouliot (Canada)
- P1.14.09** Circulating levels of low density granulocytes and cell-free DNA as predictors of cardiovascular disease and bone deterioration in SLE patients
Uxía Tobío Parada, Ana Suárez Díaz, Javier Rodríguez-Carrio, Aleida Martínez-Zapico, Ángel I. Pérez-Álvarez, Silvia Suárez, Luis Caminal-Montero, Patricia López, (Spain)
- P1.14.10** Whole-brain light-sheet and live-cell microscopy to investigate the role of Gαi2 and Gαi3 in cerebral ischemia-reperfusion injury
Ragini Kushwaha, Bernd Nuernberg, Bettina Weigelin, Sandra Beer-Hammer (Germany)
- P1.14.11** Zymosan-induced trained innate immunity in mice aggravates myocardial infarction
Patricia Kleimann, Pascal Bouvain, Zhaoping Ding, Ulrich Flögel, Sebastian Temme (Germany)
- P1.14.12** Immune cell activity during anti-TNF treatment in patients with psoriasis and psoriatic arthritis
Aleksandra Petrovic, Victoria Marie Samuelsen, Richard Davies, Anders Krogh Aarebrot, Tim Holmes, Irene Sarkar, Brith Bergum, Roland Jonsson, Lene Frøyen Sandvik, Silje Michelsen Solberg, Silke Appel (Norway)

POSTER SESSION 1

- P1.14.13** The role of neutrophil extracellular traps in epidermolysis bullosa acquisita
Sripriya Murthy, Markus Thieme, Marie Louise Mueller, Lasse Kroeger, Christian Sadik (Germany)
- P1.14.14** Investigating the autoimmune response in myocarditis and myocardial infarction
Adam B. Lokman, Maria-Alexa Cosma, Sarah J. R. Sigal, Christophe Ravaud, Paul R. Riley (United Kingdom)
- P1.14.15** Obesity comprises tissue repair by altering type 2 immunity
Lea Semmler, Inaya Hayek, Andrea Deinzer, Christian Schwartz (Germany)
- P1.14.16** Modulating effect of astaxanthin in mouse model of osteoarthritis
Blagovesta Todorova, Nikolina Mihaylova, Andrey Tchorbanov (Bulgaria)
- P1.14.17** The impact of miR-21 on epithelial intercellular junctions influencing gut inflammation and barrier repair
Kevin Mercurio, Sinéad Corr (Ireland)
- P1.14.18** Sertoli cell transplantation alleviates acute inflammation and improves sperm quality
Natalie Fikarova, Bianka Porubska, Marie Hynkova, Daniel Vašek, Veronika Somova, Ondrej Simonik, Ondrej Sanovec, Katerina Komrskova, Vladimir Krylov, Tereza Tlapáková, Magdalena Krulova (Czech Republic)
- P1.14.19** Dysregulation of type 2 immune responses and microbiota in patients with obesity
Jule Gawor, Inaya Hayek, Christian Schwartz (Germany)
- P1.14.20** Orthotopically transplanted organoids closely recapitulate human colonocytes in vivo
Annika Hausmann, Frederik Post, Andreas Mund, Casper Steenholdt, Ole H. Nielsen, Matthias Mann, Kim B. Jensen (Denmark)
- P1.14.21** Lymphatic emigration of pro-tolerogenic human epidermal Langerhans cells after tick feeding and tick-borne pathogen transmission
Lisa Kleissl, Johanna Strobl, Michiel Wijnveld, Sophie Müller, Sophie Weninger, Aglaja Kopf, Sally Connolly, Laura Marie Gail, Christian Freystätter, Mateusz Markowicz, Herbert Strobl, Hannes Stockinger, Georg Stary (Austria)
- P1.14.22** Targeting NPM1 epigenetically reprograms macrophage metabolism to facilitate post-infarction cardiac repair
Sheng Zhang, Zhenzhen Zhan (China)
- P1.14.23** SLAMF7 expression of peripheral monocytes in patients with rheumatoid arthritis
Hannah R. Spatzier, Kathrin Rothe, Laurin Braune, Anne-Marie Glimm, Phuong Nguyen, Olga Seifert, Marco Krasselt, Matthias Pierer, Ulf Wagner (Germany)
- P1.14.24** The fibrin-derived peptide B β 15-42 (FX06) protects human pulmonary endothelial cells against COVID-19-triggered cytokines
Zhiran Wang¹, Vadim Zhernovkov¹, Kevin Wu¹, Dmitrii Lebedev¹, Kieran Wynne¹, Alfonso Blanco¹, Jeremy Simpson¹, Margaritha M. Mysior¹, Petra Wülfrot², Walter Kolch¹, Günther Eissner¹ (¹Ireland, ²Austria)

POSTER SESSION 1

- P1.14.25** ICOS/ICOSL/OPN in tissue repair: enhancing wound healing with ICOS-Fc treatment
Foteini Christaki, Deepika Pantham, Amirabbas Ghasemi, Reza Abouali, Umberto Dianzani, Ian Stoppa (*Italy*)
- P1.14.26** Characterising potential tissue-protective roles of the BTNL- $\gamma\delta$ T cell axis in relation to dietary tissue stress
Vivien Mülheims-Kohlhaas, Cara Brown, Adrian Hayday (*United Kingdom*)
- P1.14.27** Deregulated plgR contributes to steatotic liver disease via systemic IgA accumulation
Dragana Rajčić, Constanze Höbinger, Tim Hendrikx (*Austria*)
- P1.14.28** Development of a novel pathotype-specific therapeutic strategy for osteoarthritis by targeting synovial macrophage subpopulations
Anaïs Cardon¹, Nicolas Gaigeard¹, Lola Le Vaillant¹, Julien De Lima¹, Claire Vinatier¹, Denis Waast¹, Benoit Le Goff¹, Frédéric Blanchard¹, Virginie Escriou¹, Jerome Guicheux¹, Marie-Astrid Boutet^{1,2} (¹*France*, ²*United Kingdom*)
- P1.14.29** Modulation of lung tissue remodelling induced by Mycobacterium tuberculosis infection by anti-fibrotic drugs
Deborah L.W. Chong, Julia Kutschenreuter, Jon S. Friedland (*United Kingdom*)
- P1.14.30** Mesenchymal stem cell extracellular vesicles attenuate dendritic cell maturation
Fiona Buckley, Pamina Contreras Kallens, Meadhbh Brennan (*Ireland*)
- P1.14.31** IL-10 and Gal-3 expression is linked to reduced ulcerative colitis severity in patients with metabolic syndrome
Irfan Corovic, Ivan Jovanovic, Bojana Simovic Markovic, Isidora Stanisavljevic, Aleksandar Djukic, Natasa Zdravkovic, Milena Jurisevic, Marina Jovanovic (*Serbia*)
- P1.14.32** Investigating innate immune mechanisms in dental pulp repair
Huda Alsalamini¹, Katherine Feeney¹, Catherine Fulton¹, Imad About², Fionnuala Lundy¹, Ikhlas El Karim¹, Yvonne Dombrowski¹ (¹*United Kingdom*, ²*France*)
- P1.14.33** Immunomodulatory capacity of large and small apoptotic bodies derived from human bone marrow mesenchymal stromal cells: an in-vitro investigation
Jiemin Wang, Seyedmohammad Moosavizadeh, Manon Jammes, Abbas Tabasi, Trung Bach, Aideen Ryan, Thomas Ritter (*Ireland*)
- P1.14.34** Intravenous immunoglobulins: A new therapeutic option for cryptogenic organizing pneumonia?
Daniel Albert Mendoza Bravo, Ivan Garcia De La Torre, Celia Ferrez Hernández, Vivian Lizeth Stewart DelCid, Elena Manterola Navarro, Jhonnathan Adrian León Valdiviezo, Rafael Rodriguez Ramos, Ana De Andres Martin (*Spain*)
- P1.14.35** Immune cell interaction in pulmonary arterial hypertension
Olaya Esparta, Konrad Roskopf, Panja Böhm, Konrad Hoetzenecker, Grazyna Kwapiszewska, Leigh Marsh (*Austria*)
- P1.14.36** The tricarboxylic acid cycle regulates fibroblast-driven tissue remodelling via hypoxia-inducible factor 1 α during Mycobacterium tuberculosis infection
Ramla Cusman, Julia Kutschenreuter, Deborah L.W. Chong, Jon S. Friedland (*United Kingdom*)

POSTER SESSION 1

- P1.14.37** Investigating the impact of ECM-based biomaterials in macrophage-mediated tissue regeneration
Sinead O'Rourke, Giovanni Gonnella, Josephine Wu, Gabriela Soares Kronemberger, Aisling Dunne, Daniel Kelly (*Ireland*)
- P1.14.38** Phosphodiesterase 4 regulates monocyte-dependent fibroblast activity in Mycobacterium tuberculosis (Mtb) infection
Sharenja Ratnakumar, Deborah L.W. Chong, Joanna Porter, Jon S. Friedland (*United Kingdom*)
- P1.14.39** Comparative effects of Vitamin C, curcumin and sambucus nigra extract on cell viability & cytokine levels of cigarette exposed lung epithelium cell culture
A. Eren Ozkaya, Hanife Sevgi Varli Ma, Aysegul Yabaci Tak, Nelisa Turkoglu Lacin, Fatmanur Karakose Okyaltirik (*Turkey*)
- P1.14.40** Characterization of fibroblast-like synoviocytes isolated from the synovial fluid of juvenile idiopathic arthritis patients
Simone Pelassa, Federica Raggi, Chiara Rossi, Federica Briasco, Chiara Artale, Marco Gattorno, Angelo Ravelli², Alessandro Consolaro, Maria Carla Bosco (*Italy*)
- P1.14.42** Teucrium montanum extract ameliorates collagen-induced arthritis in rats
Biljana Bufan, Mirjana Marčetić, Jasmina Djuretić, Ivana Čuruvija, Veljko Blagojević, Dragana Božić, Violeta Milutinović, Jelena Sopta, Jelena Kotur-Stevuljević, Nevena Arsenović-Ranin (*Serbia*)
- P1.14.43** Modulating human macrophage metabolism through the glycolytic enzyme PKM-2 for the generation of bone regenerative extracellular vesicles
Cansu Gorgun, Brenton Cavanagh, David Hoey, Annie M. Curtis (*Ireland*)
- P1.14.44** Intermittent actuation decreases the presence of neutrophils in the pericapsular region of implanted biomaterials
Hannah Prendeville, Niamh A. Ward, Garry Duffy, Eimear Dolan (*Ireland*)
- P1.14.45** Butyrate, tributyrin, and high-fiber diet: improving inflammation in acute and chronic psoriasis
Roberta Sagiorato, Beatriz Burger, Vitória Gaspar, Isabela Baccarin, Isabela Grego, Hosana Rodrigues (*Brazil*)
- P1.14.46** Unravelling stem cell destiny: calcineurin-NFAT axis in early stem cell commitment and immune exclusion
Stefano Cozzi, Laura Marongiu, Marco Galli, Giulia Stucchi, Giuseppe Rocca, Anna Celant, Ilaria Fontana, Alessia Donato, Metello Enzo Innocenti, Francesca Granucci (*Italy*)
- P1.14.47** Extracellular vesicles produced by interleukin 4 polarized macrophages suppress atherosclerosis by reprogramming Ly6Chi monocytes that improve efferocytosis
Ngan Khanh Vu^{1,2}, Tuan Anh Phu², Martin Ng², Alex Gao², Robert L. Raffai² (*Ireland, ²USA*)

POSTER SESSION 1

- P1.14.48** Downregulation of notch signaling is associated with enhanced activity of human osteoclast progenitors in patients with rheumatoid arthritis
Alan Šučur¹, Sara Aničić¹, Zrinka Jajić¹, Marina Ikić Matijašević¹, Mariastefania Antica¹, Maša Filipović¹, Ivo Krešić², Pavao Planinic², Marta Radošević¹, Ozana Jakšić¹, Katerina Zrinski Petrović¹, Darja Flegar¹, Tomislav Kelava¹, Nataša Kovačić¹, Danka Grčević¹ (¹Croatia, ²Bosnia and Herzegovina)
- P1.14.49** Dexamethasone and mRNA co-loaded lipid nanoparticles (LNPs): a synergistic approach for efficient mRNA delivery and reduced pro-inflammatory cytokine secretion in immunological cells
Rocio Gambaro¹, Ignacio Berti^{1,2}, María-José Limeres¹, Malin Svensson¹, Silvia Fraude¹, Paula Calderon¹, Ana Pena Vaquero¹, German Islan^{1,2}, Stephan Gehring² (¹Germany, ²Argentina)
- P1.14.50** Role of macrophage migration inhibitory factor (MIF) on mesenchymal stromal cell (MSC) therapeutic efficacy in acute lung injury
Ian Hawthorne, Courteney Tunstead, Evelina Volkova, Hazel Dunbar, Claudia C. dos Santos, John G. Laffey, Karen English (Ireland)
- P1.14.51** Time-dependent modulation of peritoneal adhesion post-abdominal surgery: the role of PAD2 in regulating neutrophil extracellular traps and macrophage extracellular traps
Yuqing Lu, Elrod Julia, Jasmin Knopf (Germany)
- P1.14.52** To stress... To resist? The power of stress responses in sepsis
Katia Jesus, André Barros, Elsa Seixas, Luís F. Moita (Portugal)
- P1.14.53** Neutrophil subsets and their functions in the development of periodontitis
Banndith Cheat, Jérôme Bouchet, Marjolaine Gosset, Véronique Witko-Sarsa, Catherine Blanc (France)
- P1.14.54** Attenuation of apoptosis and inflammation in oral lichen planus patients after low level laser therapy
Milena Draganova, Maria Mutafchieva, Svitlana Bachurska, Georgi Tomov, Plamen Zagorchev (Bulgaria)
- P1.14.55** Immuno profile of Inflammatory bowel disease patient response to anti-TNF α therapy
Penelope Pelczar, Can Ergen-Behr, Marius Boettcher, Andres Machicote, Morsal Sabihi, Carolin Manthey, Samuel Huber (Germany)
- P1.14.56** Expression of MIR22 host gene in different cell populations isolated from oligoarticular juvenile idiopathic arthritis patients
Chiara Artale, Simone Pelassa, Federica Raggi, Chiara Rossi, Federica Briasco, Francesca Orso, Daniela Taverna, Marco Gattorno, Alessandro Consolaro, Maria Carla Bosco (Italy)
- P1.14.57** Novel dairy fermentates have differential effects on key immune responses associated with viral immunity and inflammation
Dearbhla Finnegan, Monica Mechoud, Claire Connolly, Jamie Fitzgerald, Tom Beresford, Harsh Mathur, Lorraine Brennan, Paul Cotter⁵, Christine Loscher (Ireland)

POSTER SESSION 1

- P1.14.58** Development of an ex vivo approach preserving natural hair follicles and resident immune cells in order to recapitulate hair loss-associated inflammation
Emilie Braun, Mathias Peries, Nicolas Giang, Manon Scholaert, Benoit Chaput, Nicolas Gaudenzio, Emeline Pages (*France*)
- P1.14.59** Prothrombotic activity of adipose tissue in patients with rheumatoid arthritis treated with JAK kinase inhibitors baricitinib or upadacitinib
Krzysztof Bonek, Magdalena Plebanczyk, Maciej Ołdak, Weronika Kurowska, Sylwia Szczygielska, Katarzyna Helon, Agnieszka Zielińska, Anna Felis-Giemza, Włodzimierz Maslinski, Ewa Kuca-Warnawin (*Poland*)
- P1.14.60** A protective function of sclerosing cholangitis on inflammatory bowel disease
Tanja Bedke, Friederike Stumme, Miriam Tomczak, Babett Steglich, Rongrong Jia, Simon Bohmann, Agnes Wittek, Jan Kempinski, Emilia Göke, Marius Boettcher, Dominik Reher, Anissa Franke, Maximilian Lennartz, Thorben Fründt, Sören Weidemann, Gisa Tiegs, Christoph Schramm, Penelope Pelczar, Samuel Huber (*Germany*)
- P1.14.61** CXCL4, CXCL4-DNA/RNA complexes and anti-CXCL4 antibodies are modulated in Systemic Sclerosis patients under Iloprost therapy
Giuseppe Ocone, Roberto Lande, Anna Mennella, Katia Stefanantoni, Raffaella Palazzo, Immacolata Pietraforte, Iliana Sciarra, Massimiliano Vasile, Valeria Riccieri, Loredana Frasca (*Italy*)
- P1.14.62** USP43 Promotes Inflammation-driven colorectal cancer progression through stabilizing HDAC11 protein
Han Wu, Weilin Chen (*China*)
- P1.14.63** High-fructose diet and folate insufficiency exacerbate renal inflammation in adenine-induced murine model of chronic kidney disease
Ting-Yu Chen, Ya-Ching Chiu, Jennifer Fransisca Budiman, Bi-Fong Lin (*Taiwan*)
- P1.14.64** Chronic intestinal inflammation predisposes to the development of acute kidney injury
José Arimatéa de Oliveira Nery Neto, Victor Yuji Yariwake, Eloisa Martins da Silva, Raquel Vieira, Cláudia Silva Souza, Suemy Melim Yamada, João Vinícius Honório da Silva, Marcella Cipelli, Samuel dos Santos Oliveira, Laura Quadros-Pereira, Lorena Doretto da Silva, Niels Olsen Saraiva Camara, Vinicius de Andrade-Oliveira (*Brazil*)
- P1.14.65** Gentamicin-induced inner ear injury: modulating immune and inflammatory responses with alpha1-antitrypsin for inner ear function preservation
Amit Amar, Eli Lewis, Sabri El-Saied, Tehilla Marom, Binyamin Kaminer (*Israel*)
- P1.14.66** Soluble immune checkpoints as biomarkers for disease activity in large vessel vasculitis
Martina Bonacini, Alessandro Rossi, Ilaria Ferrigno, Cecilia Catellani, Veronica Buia, Francesco Muratore, Chiara Marvisi, Carlo Salvarani, Alessandro Zerbini, Stefania Croci (*Italy*)

POSTER SESSION 1

- P1.14.67 A dynamic interplay between angiogenesis and neutrophils in systemic sclerosis patients
Annagioia Ventrìci, Manuela Tumminelli, Luca Modestino, Marialuisa Trocchia, Leonardo Cristinziano, Anne Lise Ferrara, Stefania Loffredo, Giuseppe Spadaro, Francesca Wanda Rossi, Gianni Marone, Amato de Paulis, Maria Rosaria Galdiero (Italy)
- P1.14.68 Genetic variants and serum levels analysis of indoleamine 2,3-dioxygenase in Behcet's disease
Ülkü Uçar, Yagmur Aydin Atalay, Güven Özkaya, Barbaros Haluk Oral (Turkey)
- P1.14.69 Dysregulated innate immune cell activity in children with periodic fever, aphthous stomatitis, pharyngitis, adenitis
Andy Dernstedt, Pauline Girard, Emilie Sallansonnet, Emma Arsac, Paola Fontannaz, Wafae Adouan, Sylvain Lemeille, Arnaud Didierlaurent, Géraldine Blanchard-Rohner (Switzerland)
- P1.14.70 Role of CD16 receptor in development of diabetes mellitus type 2
Vanna Imširović, Felix Wensveen, Bojan Polić, Vedrana Jelencić (Croatia)
- P1.14.71 Characterisation of T lymphocytes in a rat model of Duchenne muscular dystrophy
Suzan Saidin, Valentina Taglietti, Frédéric Relaix (France)
- P1.14.72 Upregulation of DNase I in systemic lupus erythematosus: a role of mitochondrial DNA
Uxía Tobío Parada, Ana Suárez Díaz, Javier Rodríguez-Carrio, Aleida Martínez-Zapico, Silvia Suárez, Patricia López (Spain)
- P1.14.73 To BCG or not to BCG – a case against trained immunity?
Ivana Anđelović, Radmila Miljković, Ivana Ćuruvija, Marko Vasić, Marija Petrušić, Irena Živković, Veljko Blagojević (Serbia)
- P1.14.74 Th17-cell derived IL-22 plays a non-redundant protective role in a mouse colitis model
Antonella Fazio, Babett Steglich, Beibei Liu, Penelope Pelczar, Justus Neuendorff, Anissa Franke, Nicola Gagliani, Samuel Huber (Germany)
- P1.14.75 Treatment of experimental autoimmune uveitis and effects of probiotic supplementation
Petra Prochazkova, Radka Roubalova, Janet Jezkova, Miloslav Kverka, Aneta Klímová, Petra Svozilkova, Jarmila Heissigerova (Czech Republic)
- P1.14.76 A multidisciplinary approach to diagnosis and management of scleromyositis syndrome with positivity of anti-OJ, anti-PL7 and anti-Scl70 antibodies
Dhouha Krir, Imen Zamali, Samar Derbel, Mariem Marrak, Ahlem Ben Hmid, Meza Abdallah, Melika Ben Ahmed (Tunisia)
- P1.14.77 Simultaneous hyperbaric oxygen therapy and antioxidant supplementation in the treatment of thermal skin injuries reduce inflammation and alter nociceptive signalling and wound healing
Nemanja Jovičić, Dragica Selakovic, Milos Krstic, Bojana Krstic, Marko Simic, Sara Rosic, Natalija Arsenijevic, Gvozden Rosic (Serbia)
- P1.14.78 Premature ageing in long-term homeless adults
Ailbhe Herity, Conor Reddy, Nicole Roche, Matt McElheron, Adam Dyer, Georgia Richard, Nollaig Bourke, Cliona Ni Cheallaigh (Ireland)

POSTER SESSION 1

- P1.14.79** Serum free light chains in systemic lupus erythematosus disease
Dhouha Krir, Youssr Galai, Imen Zamali, Ahlem Ben Hmid, Raja Rekik, Monia Khanfir, Alia Fazaa, Habib Houman, Ahmed Laatar, Kamel Bousslema, Melika Ben Ahmed (Tunisia)
- P1.14.80** Uncovering the role of novel protein FKBPL in obesity associated psoriasis
Ananya S. Pushpa, Anna Bogdanska, Noor Bakour, Stephanie Annett, Tracy Robson (Ireland)
- P1.14.81** Cytotoxicity by micronucleus assay exhibit cellular inflammation in drug-addicted mothers and their newborns
Ana Lilia Fletes Rayas, Elisa García Morales, Jose De Jesus Lopez Jimenez, Jacqueline-Alejandra Noboa-Velastegui, Rosa Elena Navarro Hernandez (Mexico)
- P1.14.82** A switch in macrophage ontogeny leads to increased fibrosis during aging after myocardial infarction
Tobias Weinberger^{1,2}, Clarisabel Garcia Rodriguez², Denise Messerer¹, Clement Cochain¹, Christian Schulz¹, Elisa Gomez Perdiguero² (¹Germany, ²France)

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 Khaliq, 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-Díez, 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)
- P1.15.06** Functional regulation of human lymphoid cells by IL-1R8 targeting in cancer
Roberto Garuti¹, Domenico Supino¹, Elena Magrini¹, Giovanni Pezone¹, Irene Di Ceglie¹, Andrea Mariancini¹, Silvia Carnevale¹, Laura Falcone¹, Monica Casucci¹, Joanna Mikulak¹, Domenico Mavilio¹, Enrico Lugli¹, Sebastien Jaillon¹, Alberto Mantovani^{1,2}, Cecilia Garlanda¹ (¹Italy, ²United Kingdom)

POSTER SESSION 1

- 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 Benítez, Judith Grau-Expósito, Sebastián G. Kugel, Núria Massana, Jon Cantero-Pérez, Nerea Sánchez-Gaona, Josep Castellví, Laura Mañalich-Barrachina, Cristina Centeno-Mediavilla, 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 Garcia De La Torre, Carlota García-Hoz Jiménez, Eulalia Rodríguez Martín, Rafael Rodríguez Ramos, Elena Manterola 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 spondyloarthropathies treated with biologics
Krzysztof Bonek, Antonina Markowicz, Maciej Oldak, Magdalena Plebanczyk, Anna Kornatka, Sylwia Szczypińska, 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 Schulenberg¹, Michelle Loeser¹, Martí Farrera-Sal¹, Jacqueline Keye¹, Candise Tat², Désirée Kunkel¹, Bilal A. Omer², Michael Schmuck-Henneresse¹ (¹Germany, ²USA)
- 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)

POSTER SESSION 2**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 (*¹Spain, ²Switzerland*)
- P2.01.03** Transcriptional and epigenetic regulation of IL23R expression in human CD4⁺ T cells
Hanane Yahia, Ikram Mezghiche, Victoire Baillet, Daniel J. Cua, Raphaelle 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 Kzhyskowska (*Germany*)
- P2.01.05** IFN- γ response by medullary thymic epithelial cell in the absence of Aire gene
Ana Carolina Monteleone Cassiano^{1,2}, Rute Daniela Pinto², Pedro Ferreira², Geraldo Passos¹, Nuno Alves², Eduardo Donadi¹ (*¹Brazil, ²Portugal*)
- 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
Ludmiła Szewczak, Magdalena Kierasińska, Rafał Rola, Anna Karlińska, Katarzyna Donskow-Łysoniewska (*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-Velástegui, 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

P2.02 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)

P2.03 EPITHELIAL AND STROMAL CELLS

- P2.03.01** Packaged food emulsifiers trigger pro-inflammatory activation and disruption of the gut epithelial barrier
Duygu Yazici¹, Yagiz Pat¹, Ismail Ogulur¹, Sena Ardicli¹, Sheri Simmons², Anthony Almada², Christine Avena², Tye Jensen², Manru Li¹, Yasutaka Mitamura¹, Huseyn Babayev¹, Anja Heider¹, Raja Dhir², Mubeccel Akdis¹, Kari Nadeau², Cezmi Akdis¹ (¹Switzerland, ²USA)
- P2.03.02** PPAR β / inhibition enhances mesenchymal stromal cell-mediated immunomodulation in the context of acute respiratory distress syndrome
Courteney Tunstead¹, Evelina Volkova¹, Hazel Dunbar¹, Ian J. Hawthorne, Alison Bell¹, Ritu Negi¹, Bairbre McNicholas¹, Claudia C. dos Santos², John G. Laffey¹, Karen English¹ (¹Ireland, ²Canada)
- P2.03.03** Differential FLS populations define Rheumatoid and Psoriatic Arthritis pathotypes via their functional response to distinct immune regulators
Órla Tynan, Conor Smith, Mary Canavan, Achilles Floudas, Aoife O'Rourke, Dumitru Anton, Carl Orr, Douglas Veale, Ursula Fearon (Ireland)
- P2.03.04** Presence and characterization of circulating endothelial cells in individuals-at-risk and patients with rheumatoid arthritis
Brianne Barker, Mary Canavan, Dumitru Anton, Aoife O'Rourke, Carl Orr, Douglas Veale, Ursula Fearon (Ireland)
- P2.03.05** Investigating the impact of PPAR β/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)

POSTER SESSION 2

- 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 Ardicli¹, Sheri Simmons², Anthony Almada², Christine Avena², Tye Jensen², Manru Li¹, Xiangting Bu³, Yasutaka Mitamura¹, Anja Heider¹, Huseyn Babayev¹, Raja Dhir², Lou Zhang³, Mubeccel Akdis¹, Kari Nadeau⁵, 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)

P2.04 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 Martin 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 Á. González Gay, Iván Ferraz Amaro (Spain)
- P2.04.04** Loss of thymic interferon signature in autoimmune regulator-deficient mice
Adrianna Jebrzycka, Lars Breivik, Anagha Joshi, Eystein S. Husebye, Anette S.B. Wolff, David Dolan, Bergithe E. Oftedal (Norway)
- 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)

POSTER SESSION 2

- P2.04.07** Methyl-rich diet suppresses the development of lupus-like symptoms in humanized mouse model of the disease
Lidiya Kechidzhieva, Nikola Ralchev, Blagovesta Todorova, Kalina Kalina Tumangelova-Yuzeir, Dobroslav Kyurkchiev, 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*);
- P2.04.09** Evaluation of soluble immune checkpoint proteins in systemic lupus erythematosus and Sjögren's syndrome patients
Ege Gürlü, Basak Aru, Müge Bıçakçıl Kalaycı, Gülderen Yanıkkaya Demirel (*Turkey*)
- P2.04.10** How does SARS-CoV-2 affect the immune system of lupus nephritis patients? A two-year perspective
Anna Wardowska, Michał Komorniczak, Barbara Bułło-Piontecka, Katarzyna A. Lisowska (*Poland*)
- P2.04.11** Transfer of IgG of Long-COVID patients induces subgroup-specific symptoms in mice
Hung-Jen Chen, Brent Appelman, W. Ashwin Mak, Hanneke Willemen, Judith Prado, Chiara Geyer, Amélie Bos, Sabine Versteeg, Patricia Silva Santos Ribeiro, Braeden Charlton, Eline L. Schüchner, Fanny Boissard, W. Joost Wiersinga, Michèle van Vugt, Marit J. van Gils, Rob C.I. Wüst, Niels Eijkelkamp, Jeroen den Dunnen (*Netherlands*)
- P2.04.12** Immune parameters of patients with systemic lupus erythematosus after COVID-19 infection
Katarzyna A. Lisowska, Michał Komorniczak, Barbara Bułło-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 Mosquea Jiménez, María Inmaculada Alcalá 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, Maria Palacios Ortega, Alejandro Pereiro Rodriguez, Teresa Guerra Galan, Maria Dolores Mansilla Ruiz, Marc Perez-Guzman, Juliana Ochoa Grullon, Miguel Fernandez Arquero, María 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*)

POSTER SESSION 2

- 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 (¹Spain, 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)
- P2.04.20** The peripheral MAIT cell TCR α/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 Garcia Alaejos, Marta Aguilar Criado, María Luisa Vargas Pérez (Spain)
- P2.04.22** The TCR repertoire of circulating $\gamma\delta$ 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 Mosquea 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)

POSTER SESSION 2

- 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 Uluçkan, 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 Alberti Minutti, Laura Cecilia Bonifaz Alfonzo, Adriana Karina Chávez Rueda (Mexico)
- P2.04.32** Stratification of inflammatory arthritis using immunophenotyping
Abel Mekonnen Tesfaye, Erlend Holm-Nordli, Guro Løvik 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 Konietzschke, Claudia Kedor, Annika 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 Gustavsén, 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)

POSTER SESSION 2

- 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 Tsirogianni (*Greece*)
- P2.04.40** Exploring how exposure to different environments in utero contribute to the concept of transgenerational trained immunity
Juliet Karger, Fabien Prodjinotho, Clarissa Prazeres da Costa (*Germany*)

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 Rodríguez, 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 Ciprian, Alejandra Carrero García, 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-CD8 β 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 Debureau, 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 Soyoz, Berna Uzunoglu, Necmi Can Yuksel, Emre Firat (*Turkey*)

POSTER SESSION 2

- 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 Rodríguez de la Peña, María Guzmán-Fulgencio, Miguel Fernandez Arquero, Rebeca Perez de Diego, Silvia Sanchez Ramon (Spain)
- P2.05.09 Biomarkers in patients with haematological malignancy in response to polyclonal gammaglobulin replacement therapy
Alejandro Peixoto Rodríguez, Elsa Mayol Hornero, Juliana Ochoa Grullon, Angela Villegas Mendiola, Maria Palacios Ortega, Maria Dolores Mansilla Ruiz, Carlos Jiménez García, 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 Gaigard¹, Anaïs Cardon¹, Claire Vinatier¹, Frédéric Blanchard¹, Denis Waast¹, Benoît Le Goff¹, Jerome Guicheux¹, Marie-Astrid Boutet^{1,2} (¹France, 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 Gualtierio, 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 Francalanci, Francesco Liotta, Lorenzo Cosmi, Paola Parronchi, Laura Maggi, Alberto Magi, Francesco Annunziato (Italy)

POSTER SESSION 2

- 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 Garcia, 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 Rodríguez Martín, Rafael Rodríguez Ramos, José Luis Veiga González, Ivan Garcia De La Torre, Daniel Albert Mendoza Bravo, Paula Batres Faba, Celia Ferrez Hernández, 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 García-Cuesta, María Sánchez-Códez, Estrella Peromingo-Matute, Francisco Mora-López, Raquel De la Varga-Martínez (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- κ B1 and NF- κ B2 defects
Nazanin Fathi¹, Matineh Nirouei¹, Zahra Salimian Rizi¹, Saba Fekrvand¹, Hassan Abolhassani¹, Fereshte Salami¹, Arsh Haj Mohamad Ebrahim Ketabforoush¹, Gholamreza Azizi², Amene Saghaazadeh¹, Marzie Esmaeili¹, Amir Almasi-Hashiani¹, Nima Rezaei¹ (¹Iran, 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 Mendiola¹, Maria Dolores Mansilla Ruiz¹, Won Cheol Choi², Silvia Sanchez Ramon¹, Jaekyung Cecilia Song² (¹Spain, 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)

POSTER SESSION 2

- 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 Masó, Marina García Prat, Alba Parra Martínez, Aina Aguiló Cucurull, Janire Perurena Prieto, Mónica Martínez Gallo, Laith Moushib, Maria Antolin Mate, Jacques G. Rivière, 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)
- 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 Hadjichristodoulou, Fani Kalala, Matthaïos 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 Møller, Line Småstuen Haug, Merete Åse Eggesbø, 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 and 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)

POSTER SESSION 2**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, Ildelfonso Sánchez-Cerrillo, Alba Roca, Aránzazu Rosado-Díez, Olga Popova, Lucio García-Fraile, Ana Quintas, Arantzazu 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)
- P2.06.07** 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)
- P2.06.08** 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)
- P2.06.09** 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 Beltra^{1,2}, Sasikanth Manne², Morgan Le Gall¹, Hélène Mereau¹, John Wherry² (¹Switzerland, ²USA)
- P2.06.10** Type 1 interferons and Foxo1 down-regulation play a key role in age-related T-cell exhaustion in mice
Aurélien 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 Demir^{1,2}, Feyza Gul Ozbay Kurt², Ihor Arkhypov², Samantha Lasser², Kerim Bora Yilmaz¹, 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)

P2.07 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 Agell, Alaitz Aranburu, Timothy Sundell, Charlotte Jonsson, Alessandro Camponeschi, Anna-Karin Hultgård Ekwall, Andreas Tilevik, Inger Gjertsson, Lill Mårtensson (Sweden)

P2.07.02 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)

P2.07.03 Diversity and survival of circulating and bone marrow-resident memory T cells
Emilia Schneider Revueltas¹, Lukas Heiberger¹, Marta Ferreira-Gomes¹, Pawel Durek¹, Gabriela M. Guerra¹, Jun Dong¹, Koji Tokoyoda^{1,2}, 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)

P2.07.06 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)

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 b-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 Grieger¹, Valerie Beneke¹, Franziska Keidel¹, Sonja Moos¹, Zeina Salloum¹, Knut Schäkel¹, Stefano Casola², Florian Kurschus (¹Germany, ²Italy)
- P2.07.12** Exploring MAL signalling as a mechanistic mediator of IFN γ -induced trained immunity
Isabella Batten, Dearbhla Murphy, Sarah Connolly, Grainne Jameson, Sharee Basdeo (*Ireland*)
- P2.07.13** Early measles immunization in children before 12 month of age affects specific memory B cell responses
Maaïke van der Staak, Hinke ten Hulscher, Jelle de Wit, Rik de Swart, Nynke Rots, Rob van Binnendijk (*Netherlands*)
- 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*)

P2.08 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
Inmaculada Ruiz Lorente, Lourdes Gimeno Arias, Alicia López Abad, Maria Victoria Martínez Sánchez, Diana Ceballos Francisco, Pedro López Cubillana, Alfredo Minguela Puras (*Spain*)

POSTER SESSION 2

- 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-Adalia (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 Manzananas, Esther M. Lafuente (Spain)
- P2.08.08** Mitochondria transfer, a potential mechanism of CD4⁺ T cell exhaustion in oral cancer
Bárbara Antilef, Solange Cisterna, Romina Quiroga, Sergio Sanhueza, Camilo Cabrera, Camila Muñoz, Felipe Zúñiga, Luciano Ferrada, Wilfredo González, Patricia Luz, Andrés Caicedo, Andy Perez, Mauricio Hernandez, Estefania Nova-Lamperti (Chile)
- 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 Cippitelli¹ (¹Italy, ²USA)
- 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)

POSTER SESSION 2

- 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*)
- P2.08.15** Comprehensive landscape of tissue resident memory T cells in bone marrow of acute myeloid leukemia
Manolo Sambucci, Tiziana Ottone, Mario Picozza, Maria Teresa Voso, Luca Battistini, Giovanna Borsellino (*Italy*)
- 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 Laffranchi, 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, María-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*)

POSTER SESSION 2

- 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 Hendersen, 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, ThomasW 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 Stančíková, Jan Stuchlý, Jana Kotašková, Karla Plevová, Tomáš Arpáš, 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 Escribano 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 (¹*Switzerland*, ²*Spain*)

POSTER SESSION 2

- P2.08.35** Dysfunctional $\gamma\delta$ 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 Guttman-Gruber¹, Giorgia Nasi¹, Iris Gratz^{1,2} (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 Klimczuk, Felicia Gajdowska, Michał Młynarczyk, Weronika Hewelt-Belka, Danuta Gutowska-Owsiak (Poland)

POSTER SESSION 2

- P2.08.45** NK-LGL comprise dominant pools of adaptive NK cells that help distinguish from NK cell expansions
Tim Holmes^{1,2}, Ram Pandey², Paolo Cirillo¹, Yenan Bryceson^{1,2} (¹Norway, ²Sweden)
- P2.08.46** Molecular and functional analysis of neutrophil subpopulations of different density in colorectal cancer
Hamdullah Yanik, Ece Tavukcuoglu Demir, Timucin Erol, Kerim Bora Yılmaz, Güneş Esendağlı (Turkey)
- 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, Dhouha 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 Kazakova¹, Tsvetomira Ivanova¹, Diana Molander¹, Dorian Dikov², Kiril Simitchiev¹, Yordan Sbirkov¹, Victoria Sarafian¹ (¹Bulgaria, ²France)
- P2.08.50** Histone 3 acetylation is altered in NK cells from metastatic breast cancer patients
Ethan Collins, Clair Gardiner, Ciara O'Hanlon Brown (Ireland)
- P2.08.51** Activated human macrophages suppress growth and kill cancer cells
Jan-Morgan Dybdal, Inger Øynebråten, Alexandre Corthay (Norway)

P2.09 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 Neuzil^{1,2}, Magdalena Krulova¹ (¹Czech 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)

POSTER SESSION 2

- P2.09.04** Mast cells switch their secreted cytokine profile from pro-inflammatory to pro-tolerant upon prologued IL-33 exposure
Andrea Teufelberger¹, Carolin Költgen¹, Melanie Heßler², Magda Babina², Peter Wolf¹ (¹Austria, 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
Katariina Nurmi¹, Martina Lorey¹, Jukka Parantainen¹, Wojciech Cypryk², Vesa-Petteri Kouri¹, Tuula Anneli Nyman³, Kari K. Eklund¹ (¹Finland, 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 Chelms, 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 Chelms, 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 Boulouis¹, Elli Mouchtaridi¹, Thomas R. Müller¹, Jeffrey Y.W. Mak², David P. Fairlie², Peter Bergman¹, Jakob Michaëlsson¹, Jonas Halfvarson¹, Jenny Mjösberg¹, Marcus Buggert¹, Johan K. Sandberg (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)

POSTER SESSION 2

- 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 Frémond, Benjamin Fournier, François Maillet, Pierre Quartier, Eugénie Sarda, Adrien Schwartz, Isabelle Melki, Cyril Gitiaux, Brigitte Bader-Meunier, Mathieu Rodero, Darragh Duffy (France)
- 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 (¹Italy, 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 Klenerman (United Kingdom)
- P2.09.21 Evaluation of HLA-G levels in human umbilical cord blood-derived mesenchymal stem cells after co-culture with PBMCs
Ayşe Erol Bozkurt, Sule Karataş, Figen Abatay Sel, Mediha Süleymanoğlu, Beril Yaşa, 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 Gunalp, Duygu Sag (Turkey)

POSTER SESSION 2

- P2.09.27** Candida-driven modulation of macrophage polarization: influence of *Candida albicans* and non-albicans species.
Florabelle Cabarrubias, Swagata Chakraborty, Tamás Takács, Attila Gacser (Hungary)
- 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 Schiff-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^{1,2}, Juan Carlos Leon Contreras¹, Jorge Castro Albarran¹, Ana-Lilia Fletes-Rayas¹, Iñaki Álvarez², Rosa Elena Navarro Hernandez¹ (¹Mexico, ²Spain)
- 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)
- P2.09.35** Helminth infection modulates the immune response to SARS-CoV-2 vaccination
Jinpeng Su, Youssef Hamway, Julia Schluckebier, Bo-Hung Liao, Zhe Xie, Walaa Jradi, Jennifer Robb, Ulrike Protzer, Clarissa Prazeres da Costa (Germany)
- P2.09.36** Exploring the human immune response through tonsil-derived organoids
Maria Cavaco, Rodrigo Pedroso, Diana Matias, Luís 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 Tuillon (France)

POSTER SESSION 2

- 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*)
- P2.09.39** NK cell regulation of humoral immunity in therapeutic vaccination
Joseph McDowell, Stephanie Kucykowicz, Jessica Davies, Dimitra Peppas, 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.
Nicole 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, Tamandeep 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 Cloonan^{1,2} (*¹Ireland, ²USA*)

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 Ojalora, 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*)

POSTER SESSION 2

- 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 Estaras Hermosel¹, Salvatore Valvo², Sergio Alegre Gomez¹, Raul Torres Ruiz¹, Sandra Rodriguez Perales^{1,3}, Shehan Ismail³, Francisco Sanchez-Madrid¹, Noa Beatriz Martin Cofreces¹, 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 Calzada-Fraile, Ana Adela Calero-Garcia, Manuel Izquierdo-Pastor, Pedro Roda Navarro, Noa Beatriz Martín-Cófreces (Spain)
- P2.10.08** Exploring the role of calcium ion channels during mycobacterial infection
Priya Ghosh^{1,2}, Jacqueline Eich², Tobias Dallenga², Ulrich E. Schaible², Avinash Sonawane¹ (¹India, ²Germany)
- P2.10.09** Interplay of cytoskeleton and membrane morphology during formation of immunological synapse
Ondřej Ballek, Valerie Tahtahova, Dominik Filipp (Czech Republic)
- P2.10.10** Analysis of TAM receptor expression in patients with Sjögren's disease
Irene Sarkar¹, Hanne Borge¹, Kirsten Lassing^{1,2}, Aleksandra Petrovic¹, Tamandeep Kaur Bharaj¹, Alireza Molai¹, Richard Davies¹, Magdalena Alfredsen¹, Johan Gorgas Brun¹, Roland Jonsson¹, Kathrine Skarstein¹, Silke Appel¹ (¹Norway, ²Netherlands)
- P2.10.11** Influence of neutrophils and neutrophil extracellular traps on immunoglobulin G N-glycan modifications over the time course of experimental sepsis
Jasmin Knopf¹, Kursat O. Yaykasli¹, Karin A. van Schie², Manfred Wuhrer², Michael Boettcher¹, Martin Herrmann¹, Rostyslav Bilyy^{3,4} (¹Germany, ²Netherlands, ³Ukraine, ⁴Romania)
- P2.10.12** Using biorthogonal (CLICK) chemistry to measure nutrient uptake flux in single immune cells
Connor Corrigan, Luuk Reinalda, Sander van Kasteren, David Finlay (Netherlands)
- P2.10.13** Spatiotemporal cellular dynamics related to germinal center reaction in regional lymph node of COVID-19 lungs based on in-situ hybridization at single-cell resolution
Young Min Woo, Taehwan Oh, Jung Joo Hong (South Korea)
- P2.10.14** Phosphatase of regenerating liver-1 regulates the activity of Lck during early T cell receptor signalling.
Carlos Carrasco Padilla, Oscar Aguilar Sopena, Alvaro Gomez Moron, Raúl Torres Ruiz, Sandra Rodriguez Perales, Noa Martín Cofreces, Pedro Roda Navarro (Spain)
- P2.10.15** Vesicle transport inhibitors induce weak Nur77 expression in murine iNKT and B cells, potentially leading to false positive signals
Yavuz Mercan, Gerhard Wingender (Turkey)

POSTER SESSION 2

- P2.10.16** Maternal microbial metabolites in the fetal intestine and their effects on immunomodulation and epithelial function
Roselydiah Makunja, Arina Maltseva, Tiina Pessa-Morikawa, Masuma Khatun, Ville Koistinen, Olli Kärkkäinen, Niko Paalanen, Kati Hanhineva, Terhi Ruuska, Mikael Niku (Finland)
- P2.10.17** Development of an immunoassay for quantification of soluble human CD40L (CD154) in plasma samples
Kathrine Pedersen, Nick Stub Laursen, Annette Gudmann Hansen, Yaseelan Palarasah, Steffen Thiel (Denmark)
- P2.10.18** Similarly reshaped cytokine profile in malignant and autoimmune hematologic disorders
Nino Nanava, Sophia Metreveli, Nino Kikodze, Giorgi Giorgobiani, Tinatin Chikovani, Nona Janikashvili (Georgia)
- P2.10.19** Implications of PD-1/PD-L1 Pathway as a New Immunological Paradigm for Juvenile Idiopathic Arthritis
Lata Singh, Manisha Supriya, Sahar Choudhary, Narendra Kumar Bagri (India)
- 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, Jinchan 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 Lu^{1,2}, Boris Simonetti¹, Alisa Veler¹, Stephen Cross¹, Xiongtao Ruan³, Timsse Raj¹, Andrew Dowsey¹, Robert F. Murphy³, Paul Verkade¹, Pete Cullen¹, Christoph Wuelfing¹ (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 Cescemi, 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)

POSTER SESSION 2

- P2.10.28** Investigation of the effects of bevacizumab treatment on the immune system in age-related macular degeneration
Ali Eren Iskin, Muhammed Ali Kizmaz, Abdurrahman Simsek, Tugce Bozkurt, Tugba Senbuz, Elif Kaçmaz, Gamze Uçan Gündüz, Mehmet Baykara, Ferah Budak (*Turkey*)
- P2.10.29** Role of Irisin in autosomal dominant polycystic kidney disease
Ali Eren Iskin, Abdulmecit Yildiz, Abdurrahman Simsek, Muhammed Ali Kizmaz, 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*)
- P2.10.33** AKNA is a novel RNA-binding protein that localizes to the centrosome and regulates the germinal center reaction
Lisa Kifinger¹, Gesine Behrens¹, Rosa Schmitz¹, Anneli Petes¹, Kai Höfig¹, Juliane Merl-Pham¹, Stefanie Hauck¹, Joao Guimaraes², Henning Urlaub¹, Magdalena Götz¹, Vigo Heissmeyer¹ (¹Germany, ²Portugal)
- 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*)
- P2.10.39** Aging-associated endolysosomal dysfunction accelerate inflammaging and neurodegeneration through the STING-IFN-I axis
Najmeh Saffarzadeh, Maria Öberg, Caitlyn Myers, Anetta Härtlova (*Sweden*)

POSTER SESSION 2

- 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)

P2.11 IMMUNE SENESCENCE

- P2.11.01** Ageing impacts the innate immune response to vaccine adjuvants
Alexandra Sanchez-Martinez, Gabriella Chappell, Anita Milicic, Christine Rollier (United Kingdom)
- 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 Boddaert, 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, Vesselina Koleva, Maria Nikolova (Bulgaria)
- P2.11.06** Beyond the obstruction: immunological perspectives on aortic stenosis and coronary artery disease
Pablo Alvarez-Heredia, Jose Joaquín 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)
- P2.11.07** Role of $\beta 2$ integrins on dendritic cells in immunosenescence
Christoph Hieber, Yanira Zeyn, Nadine Röhrig, Evelyn Montermann, Matthias Bros, Stephan Grabbe (Germany)

POSTER SESSION 2

- 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*)

P2.12 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 Mattiola⁴, Arianna Maria Candelotti², Giuseppe Pietropaolo², Helena Stabile², Cinzia Fionda², Giovanna Peruzzi², Stephen R Brooks¹, Wanxia Li Tsai¹, Yohei Mikami⁵, Giovanni Bernardini², Angela Gismondi², Silvano Sozzani², James Di Santo³, Christian Vossenhricht³, Andreas Diefenbach⁴, Massimo Gadina¹, Angela Santoni², Giuseppe Sciumè² (¹USA, ²Italy, ³France, ⁴Germany, ⁵Japan)
- 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 Stojanović¹ (¹Serbia, 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*)
- 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 Bryceson⁵, Roberta Castriconi⁶, Cichocki Franck⁴, Marco Colonna⁴, Davis Daniel M.³, Andreas Diefenbach⁷, Haniffa Muzlifah³, Horowitz Amir⁴, Lanier Lewis⁴, Malmberg Karl-Johan⁸, Miller Jeffrey⁴, Lorenzo Moretta⁶, Narni-Mancinelli Emilie¹, Luke O'Neill⁹, Chiara Romagnani⁷, Dylan Ryan³, Simona Sivori⁶, Vagne Constance¹, Vivier Eric¹ (¹France, 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*)

POSTER SESSION 2

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, Alikì Xochelli¹, Pantelis Sarafidis¹, Eleni Frangou^{1,2}, Asimina Fylaktou¹, Maria Stangou¹ (¹Greece, 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-tropic T-cells to acquire a Trm phenotype
Joshua McGuire, Beverley Rodger, Harjod Singh Assi, James Lindsay, Andrew Stagg (United Kingdom)
- P2.14.05** In-depth characterization of human induced regulatory T cells by mass cytometry
Roosa Kattelus, Inna Starskaia, 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 (¹Austria, 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)

POSTER SESSION 2**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 Beklen^{1,1}, Muhammed Allippara¹, Katariina Nurmi¹, Pirkko Pussinen¹, Mari Ainola, Kari K. Eklund¹ (¹Finland, ²Turkey)
- P2.16.03** CD8 regulatory T cells inhibit antigen-specific CD4 T cell responses during respiratory infection with Bordetella pertussis
Caroline Sutton, Caitlín 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, Mediha Süleymanoğlu, Beril Yaşa, Hayriye Şentürk Çiftçi, Fatma Savran Oğuz (Turkey)
- P2.16.07** Investigating the mechanism of human peripheral helper T cells (Tph) generation
Linh-Huyen Truong, Rachel Anscombe, Feng Liu, Liye Chen (United Kingdom)
- P2.16.08** Tissue-specific immunity in the human fetus by $\gamma\delta$ T cells
Guillem Sanchez Sanchez, Isoline Verdebout², Yohannes Tafesse, Moosa Rezwani, Céline La, Panagiotis Vitsos, Aurélie Detavernier, Stanislas Goriely, Maria Papadopoulou, David Vermijlen (Belgium)

POSTER SESSION 2

- 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. Schultze, Christine Falk (Germany)
- P2.16.10** Tissue-specific imprinting shapes conventional dendritic cell functionality in tumors and non-malignant tissues
Anna Celant, Giulia Protti, Giuseppe Rocca, Francesco Andreatta, 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 (¹Ireland, ²Germany)
- 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 (¹Germany, ²China)
- 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 Guillonnet¹, Marwan Bouras¹, Alexander Kettner², Marion Davieau¹, Mélanie Petrier¹, Cynthia Fourgeux¹, Cédric Jacqueline¹, Antoine Roquilly¹, Karim Asehnoune¹, Pierre Rocheteau^{1,2} (¹France, ²Switzerland)
- 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 (¹Armenia, ²Czech Republic)

POSTER SESSION 2

- 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)
- 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 Hoetzenecker, 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 Grieger, Valerie Beneke, Vanessa Neuhaus, 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
Chistina Tsigalou, Elisabeth Stavropoulou, Konstantinos Nikolettos, Alexandros Karvelas, Theocharis Konstantinidis, Grigorios 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)

P2.17 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)

POSTER SESSION 2

- 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
(¹France, ²India)
- P2.17.06** Getting dynamic insights into the regulation of autoreactive germinal centers using serial intravital microscopy
Layla Pohl¹, Thomas R. Wittenborn¹, Cecilia Fahlquist-Hagert¹, Lisbeth Jensen¹, Ali Shahrokhtash¹, Donato Sardella¹, Alain Pulfer², Kristian Savstrup Kastberg¹, Duncan Sutherland¹, Santiago F. Gonzalez², Ina Maria Schiessl¹, Søren Egedal Degn¹
(¹Denmark, 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, Iliana 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 Imparato, 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)

P2.18 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

P2.19 MICROBIOTA

- P2.19.01** Understanding the molecular recognition of *Bacteroides fragilis* glycosphingolipids by natural killer T-cell receptor
Praveena Thirunavukkarasu¹, Sungwhan Oh¹, Heebum Song¹, Ji-Sun Yoo¹, Da-Jung Jung¹, Deniz Erturk-Hasdemir¹, Yoon Soo Hwang¹, Changwon C. Lee¹, Jérôme Le Nours¹, Hyunsoo Kim¹, Jesang Lee^{1,4}, Richard S. Blumberg¹, Seung Bum Park¹, Dennis L. Kasper¹, Jamie Rossjohn^{1,2} (¹USA, ²United Kingdom)
- 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 (¹Portugal, ²France)
- 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
Rosa Elena Navarro Hernandez, David-Roman Sanchez-Chipres, Ana-Lilia Fletes-Rayas, Anaïd Maciel-Rivera, Jacqueline-Alejandra Noboa-Velastegui, Perla-Monserrat Madrigal-Ruiz, Dalia-Alejandra Madrigal-Ruiz, Blanca-Rosa Aguilar-Uscanga (Mexico)
- P2.19.07** Relationship between gut microbial diversity and body composition: Insights from Dual energy Xray absorptiometry scan analysis in athletes, individuals with central obesity and healthy individuals
Dummi Gunasinghe¹, Diyanath Ranasinghe², Jeewantha Jayamali¹, Thashmi Nimasha¹, Harshani Chathurangika¹, Gathsaurie Neelika Malavige¹, Chandima Jeewandara¹ (¹Sri Lanka, ²United Kingdom)
- 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. Chabalgoity³, Ed Lavelle¹, Natalia Muñoz-Wolf¹ (Ireland¹, ²USA, ³Uruguay)

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 Dinić, Amarela Terzić-Vidojević, Dušan Radojević, 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 Fahlquist-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 (¹Denmark, ²Germany)
- 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 Uiho¹ (¹Estonia, ²Czech 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 (¹Germany, ²Ireland)
- 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 Súkeníková, Jiri Hrdy, Miloslav Kverka (Czech Republic)

POSTER SESSION 2

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* β -glucans
Patricia Vuscan, Breda Kischkel, Maria 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 Rossol (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 Zilliger^{1,2} (¹Germany, ²Denmark)
- 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)
- P2.20.10** 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)
- 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 (¹Germany, ²Ghana)

POSTER SESSION 2

- 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 Mauri, 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 Bursalı, Gökhan Karakülah, 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
Shane O'Carroll, Christian Peace, Juliana Toller-Kawahisa, Alessia Zotta, Emily Day, Alex Hoofman, Sara Charki, Yukun Min, Aline Zoller, Anne Mcgettrick, Luke A.J O'Neill (Ireland)
- 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-1 β and interleukin-18 production and secretion in human macrophages
Rodrigo Díaz¹, Gillian Rice¹, Diego San Felipe^{1,2}, Tamar Pepanashvili¹, Paul Kasher¹, Tracy Briggs¹, Gloria Lopez-Castejon¹ (¹United Kingdom, ²Spain)

POSTER SESSION 2

- 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 Inngjerdigen¹ (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)

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, Kautilya K. Jena², Daniel Boehmer², Benedetta Sposito², Virginie Millet¹, Lionel Spinelli¹, Sarah Wurbel¹, Chloé Riquier¹, Franck Galland¹, Philippe Naquet¹, Vanessa Mitsialis², Katlynn Bugda Gwilt², Jay R. Thiagarajah², Katherine A. Fitzgerald², Scott B. Snapper², Achille Broggi¹, 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)
- P2.21.04** Chronic inflammation of the male genital tract impairs fertility by decreasing sperm quality as well as altering female genital tract immunoregulation induced after insemination
Maria Sol Martinez, Fernando Nicolás Ferreyra, Yair Aron Chocobar Torres, Daniela Andrea Paíra, Carolina Olivera, Virginia Elena Rivero, Rubén Darío Motrich (Argentina)
- P2.21.05** Effects of gluten consumption on the transcriptomic landscape of dermatitis herpetiformis
Helka Kaunisto, Esko Kemppainen, Teea Salmi, Päivi Saavalainen, Katarzyna Leskinen, Heli Pessa, Rebecka Venti-Holmberg, Kaisa Hervonen, Tuire Ilus, Katri Kaukinen, Katri Lindfors (Finland)
- P2.21.06** Allergen-displaying extracellular vesicles of probiotic *Escherichia coli* strain O83:K24:H31 for mucosal tolerance induction in allergy
Viktor Černý^{1,2}, Eliška Krčmářová¹, Stefan Heintz², Michael Thaler², Anna Schmid², Agnieszka Razim², Jiri Hrdy¹, Aleksandra Inic-Kanada², Ursula Wiedermann², Irma Schabussova² (¹Czech Republic, ²Austria)

POSTER SESSION 2

- 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 Randulff 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. Hulleman-van Haaften¹, Bastiaan Tuk¹, Lisette A. van Berkel¹, Polychronis Kemos², Frank Ruemmele³, Nick Croft², Johanna C. Escher¹, Lissy de Ridder¹, Janneke N. Samsom¹ (¹Netherlands, ¹United Kingdom, ³France)
- 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 Pajoochian¹, 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 Pietrosevoli¹, Milena Hasan¹, Anne Fourie¹, Carrie Greving¹, Barbara Joyce Shaikh¹, Raphaëlle 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, Pumla Bhekiwe Manyatsi, Gerhard Wingender (Turkey)

POSTER SESSION 2

- 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 Revés, Renee M. Laird², Mislav Novokmet³, Jerko Štambuk³, Siniša Habazin³, Berk Turhan², Zeynep H. Gümüş², Ryan Ungaro², Joana Torres¹, Gordan Lauc³, Jean-Frederic Colombel², Chad K. Porter², Salomé S Pinho¹ (¹Portugal, ²USA, ³Croatia)
- 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 Charrouf, 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 Brichova, Kateřina Benešova, Miloslav Kverka, Jarmila Heissigerova, Petra Svozilkova, Štěpán Coufal, Iva Onděčková, Jana Senavova, 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 (¹Sweden, ²United 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 Garcia De La Torre, Vivian Lizeth Stewart DelCid, Daniel Albert Mendoza Bravo, Elena Manterola Navarro, José Luis Veiga González, Carlota García-Hoz Jiménez (Spain)
- 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)

POSTER SESSION 2

- 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
(¹Denmark, 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 (¹Portugal, ²United Kingdom)
- P2.21.28** Impact of murine allergic airway inflammation on pIgR-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 Cloonan^{1,2} (¹Ireland, 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 Bylinska, Katarzyna Ranoszek-Soliwoda, Emilia Tomaszewicz, Grzegorz Celichowski, Jaroslaw Grobelny, Malgorzata Krzyzowska (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 (¹Sweden, ²USA)

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 Chiarot², Simona Tavarini², Chiara Sammiceli², Bruna Clemente², Emilio Siena², Monia Bardelli², Michela Brazzoli², Fabio Bagnoli², 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'Keefe, 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 Ginhoux^{2,3}, Burkhard Becher⁴, Melanie Greter⁴, 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)
- 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, Volodymyr Tsvilovskyy, 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 Lavarello¹, Davide Cangelosi¹, Martina Morini¹, Francesca Bellora¹, Pietro Arnaldi¹, Fabrizio Loiacono¹, Santina Bruzzone¹, Francesco Piacente¹, Silvia Bruno¹, Annamaria Pessino¹, Serafina Mammoliti¹, Alberto Garaventa¹, Massimo Conte¹, Massimo Locati¹, Danilo Norata¹ Vivier Eric², Cristina Bottino¹, Roberta Castriconi¹ (¹Italy, ²France)

POSTER SESSION 2

- 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 Akyöney^{1,2}, Batuhan Yağcıoğlu¹, Pınar Karaşar¹, Barbaros Oral¹, Güneş Esendağlı¹ (*¹Turkey, ²Sweden*)
- 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 Dünder¹, Batuhan Yağcıoğlu¹, Elif Özalp^{1,2}, Barbaros Oral¹, Diğdem Yöyen Ermiş¹ (*¹Turkey, ²Budapest*)

POSTER SESSION 3**P3.01 NEUROINFLAMMATION**

- P3.01.01** Clinical and electrophysiological findings of peripheral neuropathy and sensory fiber involvement in Sjögren's syndrome
Hacer Erdem Tilki, 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 Reñares-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 Zierler^{1,2} (¹Germany, ²Austria)
- 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 Gürcan, 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 Ruedl (Singapore)
- P3.01.11** Comparison of immune response in different experimental models of retinal degeneration
Kateřina 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 Pearson^{1,2}, Aureore Nkiliza^{1,2}, Joseph Ojo^{1,2}, David Loane¹ (¹Ireland, 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 Bufi^{1,2}, Julia Di Stefano¹, Yousra El Ouaamari¹, Pietro Romele², Andrea Papait², Dorien Verdoodt¹, Nathalie Coolsv, Elise Van Breedam¹, Ornella Parolini², Antonietta Silini², Peter Ponsaerts¹ (¹Belgium, ²Italy)
- 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 Procaccini, 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 Luijn, 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 Romera¹, Amaia Muñoz Lopetegi¹, Eugenia Martinez Hernandez¹, Laia Prades¹, Francesc Graus¹, Josep Dalmau^{1,2}, Raquel Ruiz García¹ (¹Spain, ²USA)

POSTER SESSION 3

- 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 Mydel^{1,2} (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 Cantisán, 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 Cantisán, 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 Čuruvija, 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, Gülderem Yanikkaya Demirel (Turkey)
- P3.01.30** Impact of parasite antigens on neuroinflammation and tissue remodelling in neurocysticercosis
Luz Toribio^{1,2}, Deborah L.W. Chong¹, Hector H. Garcia^{2,3}, 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 Krčmářová, Jiri Hrdy, Viktor Cerny, Petra Petrášková, Olga Novotná, Petra Nytrová, Michaela Týblová, Jana Lízrová, 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 Arellano^{1,2}, Eric Acuña, Eileah Loda², Lindsay Moore², Juan Tichauer¹, Cristian Castillo¹, Favián Vergara¹, Paula I Burgos¹, Pablo Penaloza-MacMaster², Stephen Miller², Rodrigo Naves¹ (¹Chile, ²USA)
- 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 Förster, 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)

POSTER SESSION 3

- 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 María 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 Eriksson
(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 María 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)

POSTER SESSION 3

- 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 Søndergaard, Helene Mens, Anne-Mette Lebech, 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, Maria Antonia Romera, Mari Carmen Anton, Arnau Trillas, Mar Guasp, Eugenia Martinez Hernandez, 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 (¹Poland, 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 Garcia, Jose Miguel Sempere-Ortells, Pascual Martinez-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)

P3.02 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 Eppe, 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 Eppe, Vladimir Temchura (Germany)

POSTER SESSION 3

- P3.02.03** Design considerations towards a RIG-I adjuvanted CMV mRNA vaccine
Svenja Dudek¹, Jan Kacprzak¹, Christine Wuebben¹, Thomas Zilliger^{1,2} Gunther Hartmann¹ (¹Germany, ²Denmark)
- 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 Čolić^{1,2} (¹Bosnia 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 Pajoochian, Stefanía P. Bjarnarson, Ingileif Jónsdóttir, Audur Anna Aradóttir 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 Zillinger^{1,2}, 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 Kervevan¹, Héloïse Mary¹, Camilla Collina¹, Barbara F. Fonseca¹, Hippolyte Debarnot¹, Rémy Robinot¹, Stacy Gellenoncourt¹, Olivier Schwartz¹, Lorna Ewart², Michael Bscheider³, Samy Gobaa¹, Lisa Chakrabarti¹ (¹France, ²USA, ³Switzerland)
- P3.02.09** Improving paediatric vaccine responses: a neonatal mouse model of pneumococcal vaccination
Kiva Brennan, Eleanor Noone, Luke Gibbons, Rachel Dalton, Aline Zoller, Ed Lavelle, Natalia Muñoz-Wolf, Sarah Doyle (Ireland)
- P3.02.10** Investigating SARS-Cov2 antigen cross-reactivity of secreted (monoclonal) antibodies using droplet microfluidic linked deep sequencing
Luca Schlottheuber¹, 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, Benoit Chaput¹, Eric Merle², 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)

POSTER SESSION 3

- 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)
- P3.02.14** High affinity “non-cognate” ligand proteins as a new strategy for hepatitis C virus vaccine
Petr Kosztyu, Lucie Vankova, Eliska Kopečna, 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)

P3.03 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)

POSTER SESSION 3**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 Rodríguez Ramos, José Luis Veiga González, Celia Ferrez 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, Lucía 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)
- P3.04.08** 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, Seamas Donnelly, Michelle E. Armstrong (Ireland)

POSTER SESSION 3

P3.05 T LYMPHOCYTE REGULATION AND FUNCTION

- P3.05.01** The role of NF κ B inducing kinase in regulatory T cells and tissue regulatory T cell subtypes
Zeynep Ergün, Ari Waisman (Germany)
- P3.05.02** Hybrid SARS-CoV-2 immunity induces durable cellular pan-coronavirus immunity also in the elderly
Lucie Loyal, Julian Braun, Andreas Thiel (Germany)
- P3.05.03** Role of co-stimulatory molecules expressed by dendritic cells in formation of immunological synapse
Vincent Gloe (Switzerland)
- P3.05.04** Ligand-independent signalling of T cell inhibitory receptors.
Sidrah Naseem, Zhengmin Yang, Andrea Nunez, Jesse Goyette (Australia)
- P3.05.05** 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)
- P3.05.06** Two step selection for bias in β Chain V-J pairing
Yoram Louzoun, Reut Levi (Israel)
- P3.05.07** Blockade of PD-1 and costimulation of the CD27 pathway drive the Eomes-dependant proliferation of CD8 T cells with an exhausted phenotype
Solange 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 OLvera, Christian Brander, Eva María Martínez Cáceres, 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)

POSTER SESSION 3

- 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 Elo^{1,2}, Riitta Lahesmaa^{1,2} (*¹Finland, ²USA*)
- 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 preeclampsia on $\gamma\delta$ 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*)
- P3.05.19** Histone deacetylase class I, especially HDAC2 leads to change of the CD4⁺ lineage genes and switch the differentiation to CD4⁺CD8 α ⁺ T cells
Laurin Braune, Hannah R. Spatzier, Anne-Marie Glimm, Lina E. Werner, Kathleen Friedrich, Phuong Nguyen, Ulf Wagner, Kathrin Rothe (*Germany*)
- P3.05.20** Memory CD8⁺ T-cell formation and pathogen origin: Investigating the connection
Veronika Cimermanová, Eva Šályová, Veronika Niederlová, Juraj Michálik, Ondrej Stepánek (*Czech Republic*)
- P3.05.21** Human CD8⁺HLA-DR⁺CD45RC⁻ T cells as a potential regulatory T cell population
Gabriel Knoll, Benedikt Mathies, Michael Keller, Brigitte Jenewein, Birgit Weinberger (*Austria*)
- P3.05.22** Biology and immunobiology of a population of innate-like T cells in healthy conditions and cancer
Irene Di Ceglie¹, Anna Rigatelli¹, Paolo Kunderfranco¹, Simone Puccio¹, Roberta Carriero¹, Silvia Carnevale¹, Domenico Supino¹, Elena Magrini¹, Gabriele De Simone¹, Chiara Camisachi¹, Ferdinando Cananzi¹, Giovanni Capretti¹, Guido Costa¹, Guido Torzilli¹, Giovanna Grieco¹, Piera Molisso¹, Anna Pia Lasaracina¹, Enrico Lugli¹, Giuseppe Sciumè¹, Alberto Mantovani^{1,2}, Cecilia Garlanda¹, Sebastien Jaillon¹ (*¹Italy, ²United Kingdom*)

POSTER SESSION 3

- P3.05.23 High-throughput screening of small molecular compounds targeting FoxP3 identifies MAPK and STAT3 inhibitors as regulatory T cell inhibitors
Elise Solli, Nuria Garcia Diaz, Ehsan Hajjar, Selma Cornillot-Clément, Johannes Landskron, Rafi Ahmad, Qian Wei, Kjetil Taskén (Norway)
- P3.05.26 Regulation of T cell homeostasis by extrinsic cell death pathways
Farjana Islam, Scott Layzell, Benedict Seddon (United Kingdom)
- P3.05.27 Pertussis booster vaccination in four age groups reveals different shaping of memory T cell responses related to primary-vaccine background
Jolanda Brummelman, Laura van Eijk, Jacqueline van Gaans-van den Brink, Martien Poelen, Cécile van Els (Netherlands)
- P3.05.28 Splenic and circulating CD4⁺ T lymphocyte subsets in autoimmune and malignant hematologic disorders
Sophia Metreveli, Nino Nanava, Irina Kvachadze, Nino Kikodze, Giorgi Giorgobiani, Tinatin Chikovani, Nona Janikashvili (Georgia)
- P3.05.29 Chronic stress fine-tunes the transcriptomics of ageing T cells in 'dirty' mice
Chinna Susan Philip¹, Uku Haljasorg¹, Igor Filippov^{1,2}, Pärt Peterson¹ (¹Estonia, ²Denmark)
- P3.05.30 Breaking barriers: scrutinizing T cells that act at the forefront in people who develop multiple sclerosis
Fabienne van Puijfelik, Jasper Rip, Sophie Shyfrin, Steven Koetzier, Annet Wierenga-Wolf, Helga de Vries, Eric Bindels, Jamie van Langelaar, Beatrijs Wokke, Joost Smolders, Marvin van Luijn (Netherlands)
- P3.05.31 NFAT single-deficient T cells as a therapeutic option for anti-leukemia and anti-lymphoma responses
Boutaina El Kenz, Snigdha Majumder, Isabelle Jugovic, Domenica Saul, Luisa Bell, Nadine Hundhausen, Rishav Seal, Andreas Beilhack, Andreas Rosenwald, Dimitrios Mougiakakos, Friederike Berberich-Siebelt (Germany)
- 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, Jacqueline van Gaans-van den Brink, Teun Guichelaar, Elske Bijvank, Josine van Beek, Jelle de Wit, Patricia Kaaijk, Cécile van Els, Jolanda Brummelman (Netherlands)

POSTER SESSION 3

- 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*)
- P3.05.36** Infant intestinal stem cells enhance TH22 immunity in the human intestine early in life
Martin Baumdick¹, Malte Borggrewe¹, Jasmin Wesche¹, Ole Hinrichs¹, Christin Illig¹, Johannes Jung¹, Renee Schreurs², Ingo Königs¹, Nathaniel Melling¹, Konrad Reinshagen¹, Madeleine Bunders¹ (¹Germany, ²Netherlands)
- 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, Burkhard 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 Kovar (*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 Gratz^{1,2} (¹Austria, ²USA)
- P3.05.42** Pro-inflammatory response of human memory CD8 T cells are kept in check by GZMB B regulatory B cells
Tess Van Meerhaeghe^{1,2}, Manuel Laslandes², Nabila Djouadi², Richard Danger², Gaelle Tilly², Sarah Bruneau², Christophe Masset², Alain Le Moine¹, Mai Hoa², Sophie Brouard², Nicolas Degauque² (¹Belgium, ²France)
- 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, Ipek Yonal Hindilerden, Emine Gulturk, Gunnur Deniz, Metin Yusuf Gelmez (*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*)

POSTER SESSION 3

- 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 Miązek (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^{1,2}, Ferdinand Weisemann³, Claudia Siverino¹, Katharina Trenkwalder^{3,4}, Laura Bürgi¹, Simon Hackl³, Sebastianus A.J. Zaat², Esther de Jong², T. Fintan Moriarty¹ (¹Switzerland, ²Netherlands, ³Germany, ⁴Austria)
- 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 Palatella¹, Jana Niemz¹, Ihor Fillipov², Stefan Flöß¹, Michael Beckstette¹, Xiaojing Chu¹, Raimo Franke¹, Meina Neumann-Schaal¹, Diego Ortiz¹, Christine Falk¹, Oliver Burton³, Adrian Liston³, Mark Broenstrup¹, Leif Schauser², Till Strowig¹, Maria Rohm¹, Yang Li¹, Jochen Huehn¹ (¹Germany, ²Denmark, ³United Kingdom)
- P3.05.55** Th17 cells requires the DNA repair protein XPC to control oxidative DNA damage
Jefferson Leite^{1,2}, Luísa Menezes Silva², Eloisa Martins², Giovana da Silva Leandro², Natalia Notarberardino Bos², Talita Gonçalves de Oliveira², Victor Yuji², José Arimatéa de Oliveira Nery Neto², Samuel dos Santos Oliveira², Marcella Cipelli², Patrick da Silva^{1,3}, Sabrina Baroni¹, Stefanie Scheu¹, Leandro Colli², Sandra Marcia Muxel², Ari Waisman¹, Carlos Frederico Martins Menck², Niels Olsen Saraiva Camara² (¹Germany, ¹Brazil, ¹USA)
- 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)

POSTER SESSION 3

- 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 Matarese, 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 Matarese, 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 Esendağlı (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 $\gamma\delta$ TCR in mouse and human $\gamma\delta$ 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)

POSTER SESSION 3

- 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 Chudakov^{1,4,5} (¹Russian Federation, ²Germany, ³United Kingdom, ⁴Czech Republic, ⁵United Arab Emirates)

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 Cieřlik, Angelika Fedor, Magdalena Gębicka, Angelika Domagała, 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)
- 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
Carolina Pujalte-Satorre, Jose Miguel Sempere-Ortells, Andrés Baeza-Morales, Jorge Esteve-Girbés, Juan Javaloyes-Anton, Ana Belen Lopez-Jaen, Pascual Martinez-Peinado, Miguel Medina-Garcia, Francisco Javier Navarro-Blasco, Alicia Navarro-Sempere, Cynthia Romera-Lopez, Sandra Pascual Garcia (Spain)
- 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-Santalla¹, Marta Covadonga Ordoñez-Velasco¹, Miriam Hernando-Rodriguez¹, Maria Fernandez-Garcia^{1,2}, Juan Antonio Bueren¹, Rosa Maria Yañez¹, Marina Garin¹ (¹Spain, ²France)
- 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 Buscarinu, 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)

POSTER SESSION 3

- 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 Catanoso, Fabio Brandolino, Claudio Galluzzo, Alessandro Zerbini, Carlo Salvarani, Stefania Croci (*Italy*)
- P3.06.11** Investigating the impact of MSC-EVs on B cell responses
Manon Williams¹, Dessi Malinova¹, Meadhbh Brennan², Pamina Contreras Kallens² (*¹United Kingdom, ²Ireland*)
- 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, Adriaan 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 Leloup¹, Ambre Dangien¹, Hanane Yahia¹, Laetitia Camard¹, Natalia Pietrosevoli¹, Claudia Chica¹, Anne Fourie², Carrie Greving², Barbara Joyce Shaikh², Raphaëlle Parker¹, Daniel J. Cua², Benedicte Oules¹, Sarah Guegan-Bart¹, Sélim Aractingi¹, Lars Rogge¹, Elisabetta Bianchi¹ (*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 Martín-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 Dinić, Jelena Đokić, Sergej Tomić (*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 He^{1,2}, Marcus Maurer¹, Stefan Frischbutter¹ (*¹Germany, ²China*)

POSTER SESSION 3

- 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, Tengting 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, Włodzimierz Maslinski (Poland)
- 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, Noémie 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 Landaluce, Luis Martinez-Lostao (Spain)
- P3.06.23** Complex immunomodulation by pomegranate-derived ellagitannins
Miodrag Čolić^{1,2}, Marina Bekić², Sergej Tomić², Jelena Đokić², Dušan Radojević², Katarina Šavkin², Nataša Miljuš¹, Milan Marković², Ranko Škrbić¹ (¹Bosnia and Herzegovina, ²Serbia)
- 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 (¹Netherlands, ²USA)

POSTER SESSION 3

- 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 (¹Netherlands, ²United 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)
- P3.06.32** Selective suppression of pathogenic B lymphocytes from Hashimoto's thyroiditis patients by chimeric protein molecules
Andrey Tchorbanov, Nikola Ralchev, Iliyan Manoylov, Nikolina Mihaylova, Irini Doytchinova, Alexander Shinkov (Bulgaria)

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 Mallone¹, 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 Rosić^{1,2}, 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)

POSTER SESSION 3

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 Mosquea Jiménez, Sergio Barroso Hernández, Maria Begoña Vazquez Araujo, Rocio Martínez Gallardo, Román Hernández Galledo, María Luisa Vargas Pérez, Rocío 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 Anega, 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
Gabriel Astarloa, Diego Polanco-Alonso, Victor Sandá, Ainhoa Amarilla-Irusta, Ainara Lopez-Pardo, Raquel Pérez-Garay, Silvia Pérez-Fernández, Naiara G. Bediaga, Carmen González, Alasne Uranga, Mercedes Rey, Marta Alonso, Tomás Carrascosa, Bárbara Manzanares-Martin, Juan J. Mateos-Mazón, Juan C. García-Ruiz, Olatz Zenarruzabeitia, Laura Amo, Francisco Borrego (Spain)
- 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 Jimenez, Ariadna Vicente Parra, Guadalupe Tabernero 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 transplnatation: impact in the outcome in strategies using PTCy
Francisco Javier Gil, Jairo Eduardo Niño Ramirez, Daniel Arroyo-Sánchez, Marta Fonseca-Santos, Isabel Jimenez, 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 Wölflle, 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)

POSTER SESSION 3

- 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. Rosenkranz, Thomas Bärnthaler, Kathrin Eller (*Austria*)
- P3.08.10** Immunosenescent T-lymphocyte subpopulations are greatly expanded in long-term kidney transplant recipients
Evangelos Memmos, Georgios Lioulios, Efstratios Kasimatis, Alikì Xochelli, Lambros Vagiots, 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 Garcia Alaejos, Luz Cheilly Mosquea Jiménez, Azahara Díaz Lozano, Angela Lucas Blanco, María Begoña 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 Tsiogianni (*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 Castiñeira (*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*)

POSTER SESSION 3

- 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 Marti, 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*)
- 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 Chichelnitskiy, Jenny F Kuehne, Wiebke Rackwitz, Jana Keil, Kerstin Beushausen, Arjang Ruhparwar, 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 Lauzurica, Carlos Molpeceres, Elena Lorente, Pilar Lauzurica (*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 Chichelnitskiy, Kerstin Beushausen, 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 Chichelnitskiy, Theodore Kapellos, Jana Keil, Kerstin Beushausen, Wiebke Sommer, Kristian Händler, Matthias Becker, Kevin Bassler, Danny Jonigk, Mark Greer, Joachim L. Schultze, Ius Fabio, Gregor Warnecke, Christine Falk (*Germany*)

POSTER SESSION 3

- 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 Lioulis, Aliko 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 (¹*Belgium*, ²*United 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*)

P3.09 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*)

POSTER SESSION 3

- P3.09.05** Differential predictive value of resident memory CD8 T cell subpopulations in non-small cell lung cancer patients treated by immunotherapy
Thi Tran, Lea Paolini, Stephanie Corgnac, Jean-Philippe Villemin, Marie Wislez, Jennifer Arrondeau, Ludger Johannes, Jonathan Ulmer, Louis-Victorien Vieillard, Josephine Pineau, Alain Gey, Valentin Quiniou, Pierre Barennes, Hang Phuong Pham, Milena Hasan, Isabelle Cremer, Karen Leroy, Pierre Laurent-Puig, Laure Gibault, Patrice Ravel, Fathia Mami-Chouaib, François Goldwasser, Elizabeth Fabre, Diane Damotte, Eric Tartour (*France*)
- P3.09.06** 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, Aileen Ryan (*Ireland*)
- 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 González Cuadrado, Oscar Caso, Patricia Almendro Vázquez, Carlota Cantonad Ruigomez Martín, 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 Frías⁴, 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 (*¹Italy, ²Brazil*)
- P3.09.11** High frequency of CD16⁺ ILT2^{hi} 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
Anna 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 Lynch^{1,2} (*¹Ireland, ²USA*)
- P3.09.14** Immune checkpoint modulation induced by inflammatory cytokines in colon cancer cells
Ilaria ferrigno, Martina Bonacini, Alessandro Rossi, Cecilia Catellani, Veronica Buia, Carlo Salvarani, Alessandro Zerbin, Stefania Croci (*Italy*)

POSTER SESSION 3

- P3.09.15** Modelling macrophages-glioblastoma cross-talk in tumor microenvironment
Federica Mornata¹, Alessandra Maielli¹, Haralampos Hatzikirou^{2,3}, Friedrich Feuerhake³, Peter Raab³, Benedetta Savino¹, Massimo Locati¹ (*¹Italy, ²United Arab Emirates, ³Germany*)
- P3.09.16** Profiling the immune populations in paediatric brain tumours: the MIMIC program
Tiago Carvalheiro, Joyce I. Meesters-Ensing, Raoull Hoogendijk, Mariëtte 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
Wibke Werner, Alix 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 Vannucci¹, Dmitry Stakheev¹, Pavol Lukac¹, Lenka Rajsiglova¹, Paolo Tenti¹, Daniel Hadraba¹, David Vondrasek¹, Gianluca Mucciolo², Paola Cappello³, Renata Stepankova¹, Peter Makovicky¹, Tomas Hudcovic¹, Petr Sima¹, Fabian Caja¹, Daniel Smrz¹ (*¹Czech Republic, ²United Kingdom, ³Italy*)
- 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, Hyo 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*)
- 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 Birsén, Olivier Kosmider, Didier Bouscary, Michaela Fontenay, Nicolas Chapuis, Yannick Simoni (*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 Hrnčír (*Czech Republic*)
- P3.09.24** Regulatory macrophages in a murine model of lung carcinoma
Barbara Polese, Nicolas Tessandier, Gary Dupont, Céline Legrand, Céline Vanwinge, Fabienne Perin, Amandine Tytgat Tytgat, Laurence Fievez, Fabrice Bureau, Didier Cataldo, Nathalie Jacobs (*Belgium*)

POSTER SESSION 3

- P3.09.25** 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 Carriero^{1,3}, Piergiuseppe Colombo¹, Clelia Peano¹, Gianluca Basso¹, Javier Cibella¹, Paolo Kunderfranco¹, Enrico Lugli¹, Massimo Lazzeri¹, Paolo Casale¹, Francesco Cecconi^{1,2}, Thomas J. Schmidt³, Jiri Eitler³, Torsten Tonn³, Diletta Di Mitri¹ (¹Italy, ²Denmark, ³Germany)
- P3.09.27** 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)
- P3.09.28** Spectral cytometry reveals distinct immunological signature discriminating PDAC from HD patients
Teresa Ruckebrod, Hartmann Raifer, Magdalena Huber (Germany)
- P3.09.29** Neutrophil plasticity in the tumor microenvironment is dependent on HPV status in irradiated head and neck cancer
Clara Reichardt, Lia Mogge, Devarshi Dadawala, Marco Munoz Becerra, Udo Gaipf, Benjamin Frey, Luis Munoz (Germany)
- P3.09.30** Spatial immunoprofiling of the tumor tissue in patients with leiomyosarcomas
Iva Benešová, Andrej Ozaniak, Jan Balko, Vira Tovazhnianska, Michal Rataj, Dominika Galová, Jitka Smetanova, Robert Lischke, Jiřina Bartůňková, Zuzana Ozaniak Strížová (Czech Republic)
- P3.09.31** 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 (¹Netherlands, 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 Narbeburu, 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 Pasha³ (¹Canada, ²USA, ³United Kingdom)

POSTER SESSION 3

- 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 (¹Canada, ²United Kingdom)
- 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 (¹Canada, ²United Kingdom)
- 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 Vento¹, Gaetana Pezzino¹, Gregorio Costa¹, Annamaria Petrungaro¹, Eugenia Quartarone¹, Riccardo Cavaliere¹, Guido Ferlazzo¹, Claudia De Pasquale¹ (¹Italy, ²USA)
- P3.09.39** The impact of ER stress on $\gamma\delta$ T cells in the tumor microenvironment
Leonie Schöftner¹, Julia Feiser¹, Amalia Sophianidis¹, Lara Ronacher¹, Oliver Nussbaumer², Andrew Hutton², Maurizio Zanetti³, Christof Regl¹, Christina Guttman-Gruber¹, Stefan Hainzl¹, Iris Gratz^{1,3}, Giorgia Nasi¹ (¹Austria, 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 Mantovani^{1,2}, Andrea Doni¹ (¹Italy, ²United Kingdom)
- P3.09.41** Colorectal cancer microenvironment controls mast cell phenotypical plasticity
Caterina Marangio, Erisa Putro, Alessia Carnevale, Helena Stabile, Silvia Ruggeri, Emanuela Pillozzi, 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 Moosavizadeh, Ellen Donohoe, Lei Lei, Roisin Dwyer, Aileen 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 Dobrovolksiene¹, Karolina Suveizde¹, Gabija Lukaseviciute¹, Krizia Sagini², Beatriz Martin-Gracia², Silvana Romero², Alicia Llorente Martinez², Beatrice Gudaite¹, Vita Pasukoniene¹ (¹Lithuania, ²Norway)
- P3.09.44** Xenografting mouse models to study human cutaneous $\gamma\delta$ T cells in health and disease
Giorgia Nasi¹, Leonie Schöftner², Oliver Nussbaumer¹, Andrew Hutton¹, Amalia Sophianidis¹, Anshu Sharma¹, Christina Guttman-Gruber¹, Stefan Hainzl¹, Susanne Kimeswenger¹, Monika Ettinger¹, Iris Gratz^{1,3} (¹Austria, ²United Kingdom, ³USA)
- P3.09.45** Heterotypic 3D cancer spheroids as a controlled modeling platform for studying tumour microenvironment
Egle Zymantaite, Agata Mlynska (*Lithuania*)

POSTER SESSION 3

- 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
Aisling Ui Mhaonaigh, Lorraine Smith, Matt Mcelheron, Aoibhín Woods, Fiona O'connell, Kirstan Murphy, Meghana Menon, Niamh Hallinan, Yasir Bashir, Vincent Varley, Niamh O'connor, Cian Muldoon, Ciara Ryan, Brian Mehigan, Waqas Butt, Narayanasamy Ravi, Claire Donohoe, Noel Donlon, John Larkin, Paul McCormick, Dara Kavanagh, Michael Kelly, John V. Reynolds, Declan Soden, Jacintha O'sullivan (Ireland)
- 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 Vinícius Honório da Silva, Samuel 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)

P3.10 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 Eggesbø, Asia-Sophia Wolf, Ingrid Fadum Kjønstad, Guri Solum, Anthony Ravussin, Sabin Bhandari, Anna Hayman Robertson, Per Magnus, Lill Trogstad, Anja Kristoffersen, Unni Nygaard, Siri Mjaaland (Norway)

POSTER SESSION 3

- 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 Aboagye¹, Jorge Huete-Carrasco¹, Siobhán McClean¹, Julen Tomás Cortázar¹, Thomas Courant², Dorothee Neple², Ed Lavelle¹ (¹Ireland, ²Switzerland)
- 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 Borkner¹, Joanne M. O'Hara², Brenda Nguyen², Kimberly L. Carey², Christina Dold², Obadiah Plante², Andrea Carfi², Kingston Mills¹ (¹Ireland, ²USA)
- 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 Proietto¹, Beatrice Dallan¹, Martina De Laurentis¹, Eleonora Gallerani¹, Mara Martino¹, Sara Ghisellini¹, Amedeo Zurlo¹, Stefano Volpato¹, Benedetta Govoni¹, Michela Borghesi¹, Valentina Albanese¹, Victor Appay¹, Stefano Bonnini¹, Lacey Sian Llewellyn¹, Salvatore Pacifico¹, Laura Grumiro¹, Simona Semprini¹, Vittorio Sambri¹, Kristin Ladell¹, Helen M. Parry², Paul A.H. Moss², David A. Price¹, Antonella Caputo¹, Riccardo Gavioli¹, Francesco Nicoli¹ (¹Italy, ²United 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 Jacobsen¹, Kristin Metzendorf¹, Yeranddy Aguiar Alpizar², Lara Kelchtermans², Elke Maas², Stephanie Tittel¹, Peggy Riese¹, Carlos Alberto Guzman¹, Kai Dallmeier², Luka Cicin-Sain¹ (¹Germany, ²Belgium)

POSTER SESSION 3

- 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 Lepasavić (Serbia)
- P3.10.17 BpOmpW antigen administered with CAF01 adjuvant stimulates comparable T cell responses to Sigma adjuvant system
Julen Tomás Cortázar¹, Conor Quinn¹, Niamh Corcoran¹, Alfonso Blanco¹ Dennis Christensen³, Siobhán McClean¹ (¹Ireland, 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 (¹Brazil, 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 Lactacisibacillus rhamnosus modulate the immune response to inactivated Influenza vaccine in young and old rats?
Marija Petrušić, Veljko Blagojević, Ivana Anđelović, 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 Garcia del Rio, 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 Sharkau¹, Camille Pierrini¹, Sylvain Cardinaud¹, Mireille Centlivre¹, Bernard Malissen¹, Gerard Zurawski^{1,2}, Ana Zarubica¹, Sandra Zurawski^{1,2}, Yves Lévy¹, Véronique Godot¹ (¹France, 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 Bekerredjian-Ding (Germany)

POSTER SESSION 3

- P3.10.26** *Staphylococcus aureus*-specific TIGIT⁺ Treg are present in the blood of healthy subjects – a hurdle for vaccination?
Elisabetta Soldaini¹, Jonah Clegg^{1,2}, Malgorzata Ewa Mnich^{1,3}, Alberto Carignano¹, Giovanni Cova¹, Simona Tavarini¹, Chiara Sammiceli¹, Bruna Clemente¹, Megan Smith^{1,2}, Emilio Siena¹, Monia Bardelli¹, Michela Brazzoli¹, Fabio Bagnoli¹, Rachel McLoughlin² (¹Italy, ²Ireland, ³France)
- 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 Bilisel², Tomer Hertz^{1,2} (¹Israel, ²USA)
- P3.10.30** Leishmania extracellular vesicles mediate protection against cutaneous leishmaniasis
İbrahim Tokmak, İsmail Cem Yilmaz, Muzaffer Yildirim, Volkan Yazar, Bekir Salih, Ülkü Güler, İhsan Gürsel, Mayda 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 Nicolaie, Mardi Boer, Nynke Rots, Alienke Wijmenga, Patricia Kaaijk, 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, Maria 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
Ruairi McErlean, Selin Cankat, Daniel Brown Romero, Gloryanne Aidoo-Micah, Anandita Mathur, Mariana Diniz, Laura McCoy, Leo Swadling, Mala K. Maini (United Kingdom)

POSTER SESSION 3

- 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)
- 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)

P3.11 VACCINES FOR IMMUNOTHERAPY

- P3.11.01** Lynch syndrome-related neoantigens prediction and validation for a dendritic-cell based cancer prevention vaccine
Cristina Bayó 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 Holzmänn¹, 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 Koehnke^{1,2}, Jan Rybníček¹, Alexander Simonis¹ (¹Germany, 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, Ayoung Oh, Seonghyun Lee, Sue Bean Youn, Jeong Soo Park, Hye Won Kwak, Daegun 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 Trifonova^{1,2}, Mirela Curin, Pia Gattlinger¹, Zicheng Liu¹, Kristina Borochova¹, Margarete Focke-Tejkl¹, Marianne van Hage³, Jon Konradsen³, Ulrika Käck³, Renata Kiss¹, Huey Jy Huang¹, Susanne Vrtala¹, Ksenja Riabova², Antonina Karsonova², Alexander Karaulov², Rudolf Valenta^{1,2} (¹Austria, ²Russian Federation, ³Sweden)

POSTER SESSION 3

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)

P3.11.07 Advancing rheumatoid arthritis therapy by tolerogenic peptide-based vaccines
Laura Romero Castillo, Rajan Kumar Pandey, Kejsi Zeqiraj, Christian Beusch, Ana Coelho, Carolin Svensson, Bingze Xu, Vilma Urbonaviciute, Roman Zubarev, Rikard Holmdahl (Sweden)

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 Netea^{1,2}, Jan van Lunzen¹, Leo Joosten^{1,3}, Andre van der Ven¹ (¹Netherlands, ²Germany, ³Romania)

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, Mònica Pérez, Maria Luisa Rodriguez de la Concepción, 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 Díaz-Fernández, Nuria Montes, Iris 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 Foyen, 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)

POSTER SESSION 3

- 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 Garcia Fraile, Cecilia Muñoz-Calleja, Arantzazu 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. Marin^{1,2}, Valentina Casella¹, Laia Bernad Rosa¹, Eudald Vehí Piqué¹, Ruth Peña¹, Gabriel Felipe Rodríguez-Lozano¹, Enrique Martín-Gayo¹, Andreas Meyerhans¹, Julia G Prado¹ (¹Spain, ²South Africa)
- 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 Durland¹, Rivka de Jongh¹, Lianne Koets¹, Barbera Veldhuisen¹, Hilde Raaphorst¹, Annelies Turksma¹, Julian J. Freen-van Heeren¹, Maurice Steenhuis¹, Theo Rispens¹, C Ellen van der Schoot¹, Marieke van Ham¹, Rene A.W. van Lier¹, Klaas P.J.M. van Gisbergen¹, Anja ten Brinke¹, Carolien E. van de Sandt^{1,2} (¹Netherlands, ²Australia)
- P3.12.15** Eucalyptus essential oil inhibits cell infection by SARS-CoV-2 spikepseudotyped 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 Thauinat¹, Jean-Baptiste Fassier¹, Bruno Pozzetto¹, Stéphane Paul¹, Thierry Walzer¹, Sophie Trouillet-Assant¹ (¹France, 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-Assant (France)

POSTER SESSION 3

- P3.12.18** The immune landscape of antiviral responses in multiple sclerosis
Silvia D'Orso, Gisella Guerrera, Elena Olivieri, Mario Picozza, Alice Verdiani, Marta Pirronello, Silvia Corbisiero, Manolo Sambucci, Daniela Angelini, Andrea Misiti, 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, Pärt 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 Ricardson, 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 Ricardson, Saki Sultana, Kimberly Brewer (Canada)

POSTER SESSION 3

- 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 Ooi², Neelika Malavige^{1,3} (*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 Kukule, Thea Kristine Rogne Møller, Anna Hayman Robertson, Terese Bekkevold, Fredrik Oftung, Lisbeth Meyer Næss (*Norway*)
- 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, Aileen 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 (*¹Switzerland, 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 Bhambi 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, Ivailo 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 Mondì, Alessandra Oliva, Simona Gili, Flavia Cristofanelli, Massimo Tempestilli, Gianluca Prota, Enrico Girdardi⁵, Fabrizio Maggi, Andrea Antinori (*Italy*)

POSTER SESSION 3

- 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, Iaria 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)
- P3.12.39** Immune responses in HSV-2 genital herpes and HSV-2 meningitis: a comparative study
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 Llergo, 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
Muhammed Ali Kızmaz, Abdurrahman Simsek, Tugce Bozkurt, Eren Cagan, Ali Eren Iskin, Ferah Budak (Turkey)
- P3.12.48** TLR7 deficiency accelerates severe COVID-19 through reduced IRF7 activation and interferon production
Xuebin Qin, Chenxiao Wang, Shumei 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, Marcioa Barreto², Blenda Pereira², Jessica Jesus-Silva², Sara Sara², Ana Barreto², Ananda Marinho², Ricardo Khouri², Vinicius Maracaja-Coutinho², Manoel Barral-Netto², Aldina Barral², Cristina Cardoso², Natalia Tavares², Jennifer Dan^{1,2}, Viviane Boaventura² (¹USA, ²Brazil)

POSTER SESSION 3

- 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 Sophie^{1,2}, Lorenzo Bonaguro¹, Claudia Kedor¹, Annika Elisa Stein¹, Kirsten Wittke¹, Leif Erik Sander¹, Joachim L. Schultze¹, Aschenbrenner Anna¹, Carmen Scheibenbogen¹ (¹Germany, ²Australia)
- P3.12.53** An IFN γ -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 Mladenčić¹, Mia Krapić¹, Lea Hiršl⁴, Yossef Glantzspiegel⁴, Ana Rasteiro⁵, Maria Aliseychik⁵, 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, Martin 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, Tímea Berki (*Hungary*)
- P3.12.57** Viral and immune kinetics of non-persistent HPV genital infections in young adult women
Nicolas Tessandier, Baptiste Elie, Tsukushi Kamiya, Vanina Boué, Marion Kerioui, Claire Bernat, Sophie Grasset, Soraya Groc, Massilva Rahmoun, Noemi Bender, Marine Bonneau, Vincent Foulongne, Christelle Graf, Eric Picot, Marie-Christine Picot, Bastien Reyné, Christian Selinger, Vincent Tribout, Édouard Tuailon, Tim Waterboer, Jacques Reynes, Michel Segondy, Nathalie Boule, Ignacio G Bravo, Jérémie Guedj, Carmen Lia Murall, Samuel Alizon (*Belgium, France*)
- 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*)

POSTER SESSION 3

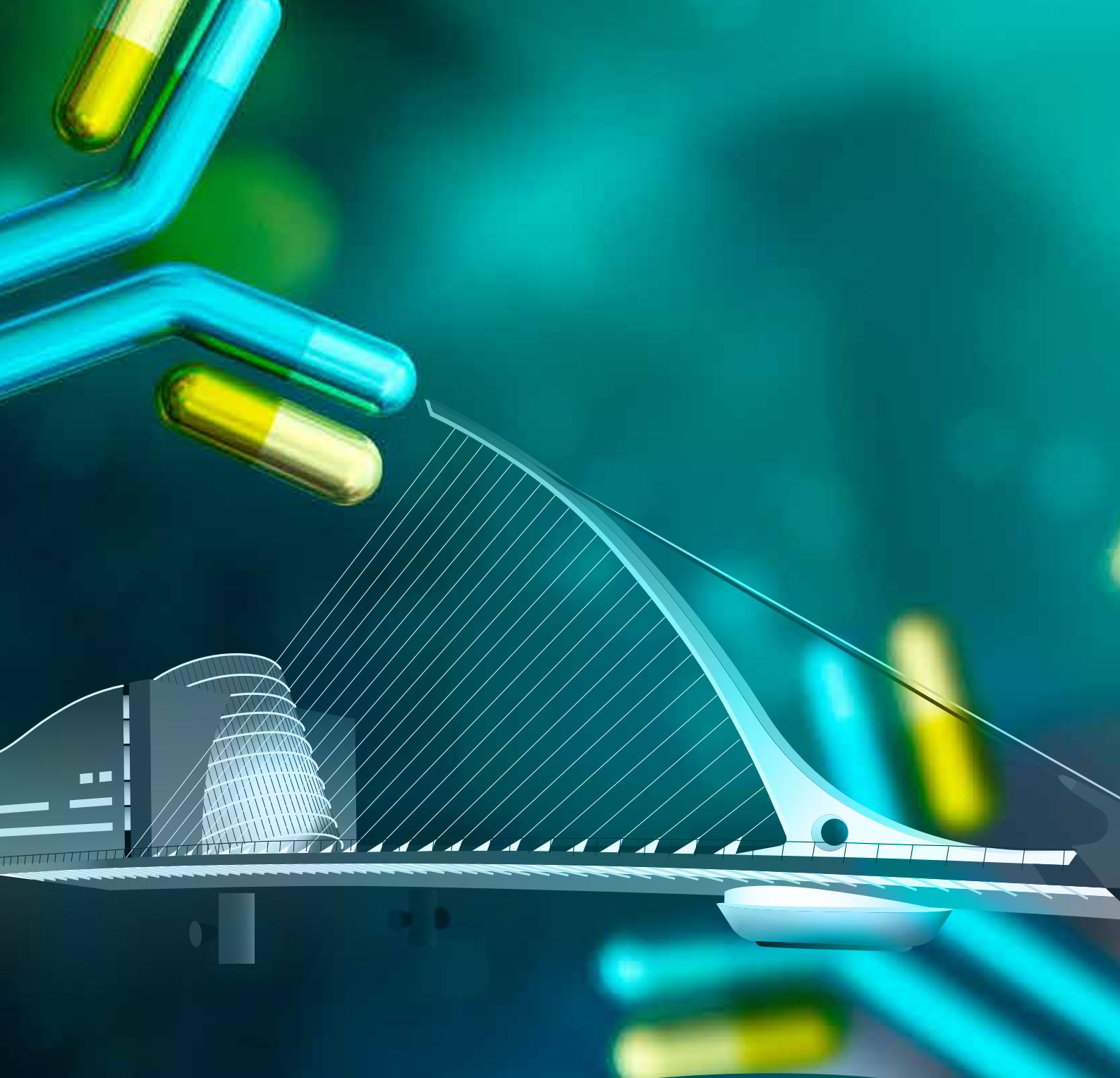
- P3.12.59** Human immunodeficiency virus based pseudotype assays overestimate severe acute respiratory syndrome coronavirus 2 neutralising activity in sera from areas of high human immunodeficiency virus prevalence
Mhairi McCormack¹, Louis Banda², Stephen Kasenda², Abena Amoah², Ellen Hughes¹, Chris 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 Hertz^{1,2} (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)

P3.13 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, Vladimer 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 Garcia, Isabel María Vallejo Bermúdez, María 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 Arioz³, Rosanna Zhang² (¹United Kingdom, ²USA, ³Switzerland)

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- P3.13.08** Predict the response to CD3xBCMA bispecific immunotherapy in multiple myeloma
Nicolas Deredec, 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, Barbora 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 Stylianou¹, Zhigang Liu², Yong Gao², Noemi Becza², Jack Chepke², Xing-Xuang Gao², Paul Lehmann², Greg Kirchenbaum² (¹United Kingdom, ²USA)
- 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)



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