

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 TBA
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

MONDAY, 2 SEPTEMBER 2024

AUDITORIUM | 10:30-11:45

SYMPOSIUM - ALLERGY

Chairs: **Hamida Hammad** (*Belgium*), **Björn Rúnar Ludviksson** (*Iceland*)

- 10:30 Trajectories of tolerance in young allergic children
Eva Sverremark Ekstrom (*Sweden*)
- 10:50 Coeliac disease
Ludvig Sollid (*Norway*)
- 11:10 Respiratory immunity and allergy
Philipp Starkl (*Austria*)
- 11:30 Discussion

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

MONDAY, 2 SEPTEMBER 2024

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

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

MONDAY, 2 SEPTEMBER 2024

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

MONDAY, 2 SEPTEMBER 2024

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** Microglial function in autoimmunity
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: **Denise Fitzgerald** (*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

TUESDAY, 3 SEPTEMBER 2024

AUDITORIUM | 08:30-09:45

SYMPOSIUM - INNATE IMMUNITY TO VIRUSES

Chairs: **Evangelos Andreakos** (Greece), **Sylvia Knapp** (Austria)

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

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

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

09:30 *Discussion*

LIFFEY B | 08:30-09:45

SYMPOSIUM - PLASMA CELLS

Chairs: **Andreas Radbruch** (Germany), **Marieke Van Ham** (The Netherlands)

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

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

09:10 Regulatory plasma cells
Simon Fillatreau (France)

09:30 *Discussion*

TUESDAY, 3 SEPTEMBER 2024

AUDITORIUM | 10:30-11:45

SYMPOSIUM - THE FUTURE OF LEADERSHIP IN ACADEMIA / CHALLENGES FOR LEADERSHIP IN ACADEMIA

Chairs: **Gunnur Deniz** (*Turkey*), **Myriam Nabhan** (*Ireland*)

- 10:30 Impostors, role models and the “lean in” fad: the path to diversity & equality is riddled with traps (and promising practices!)
Christopher Begeny (*United Kingdom*)
- 11:00 Leading diverse teams
Silvie Klein-Franke (*Switzerland*)
- 11:30 Discussion

LIFFEY B | 10:30-11:45

SYMPOSIUM - RESOLUTION OF INFLAMMATION

Chairs: **Attila Bacsi** (*Hungary*), **Jesmond Dalli** (*United Kingdom*)

- 10:30 The STING-IFN type I axis in resolving inflammation and fibrosis
Amiram Ariel (*Israel*)
- 10:50 Regulation of T-Cell immune responses by pro-resolving lipid mediators
Sylvaine You (*France*)
- 11:10 Apoptosis and wound repair - resolving a perplexing match
Adriano Rossi (*United Kingdom*)
- 11:30 Discussion

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

TUESDAY, 3 SEPTEMBER 2024

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 NLRP3 inflammasome activation
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

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

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

WEDNESDAY, 4 SEPTEMBER 2024

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

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

WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY B | 11:15-12:30

SYMPOSIUM - HOST-MICROBE INTERACTIONS

Chairs: **Miloslav Kverka** (*Czech Republic*), **Irma Schabussova** (*Austria*)

- 11:15** What makes molecular patterns of pathogens different from structures of commensals
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

AUDITORIUM | 13:30-14:15

KEYNOTE LECTURE 3

Chairs: **Tracy Hussell** (*United Kingdom*), **Jacek Witkowski** (*Poland*)

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

WEDNESDAY, 4 SEPTEMBER 2024

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*), **Johannes Textor** (*The Netherlands*)

- 14:25 Computational and experimental tools to decipher, read, predict and re-engineer antibody and T-cell repertoires
Daide 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

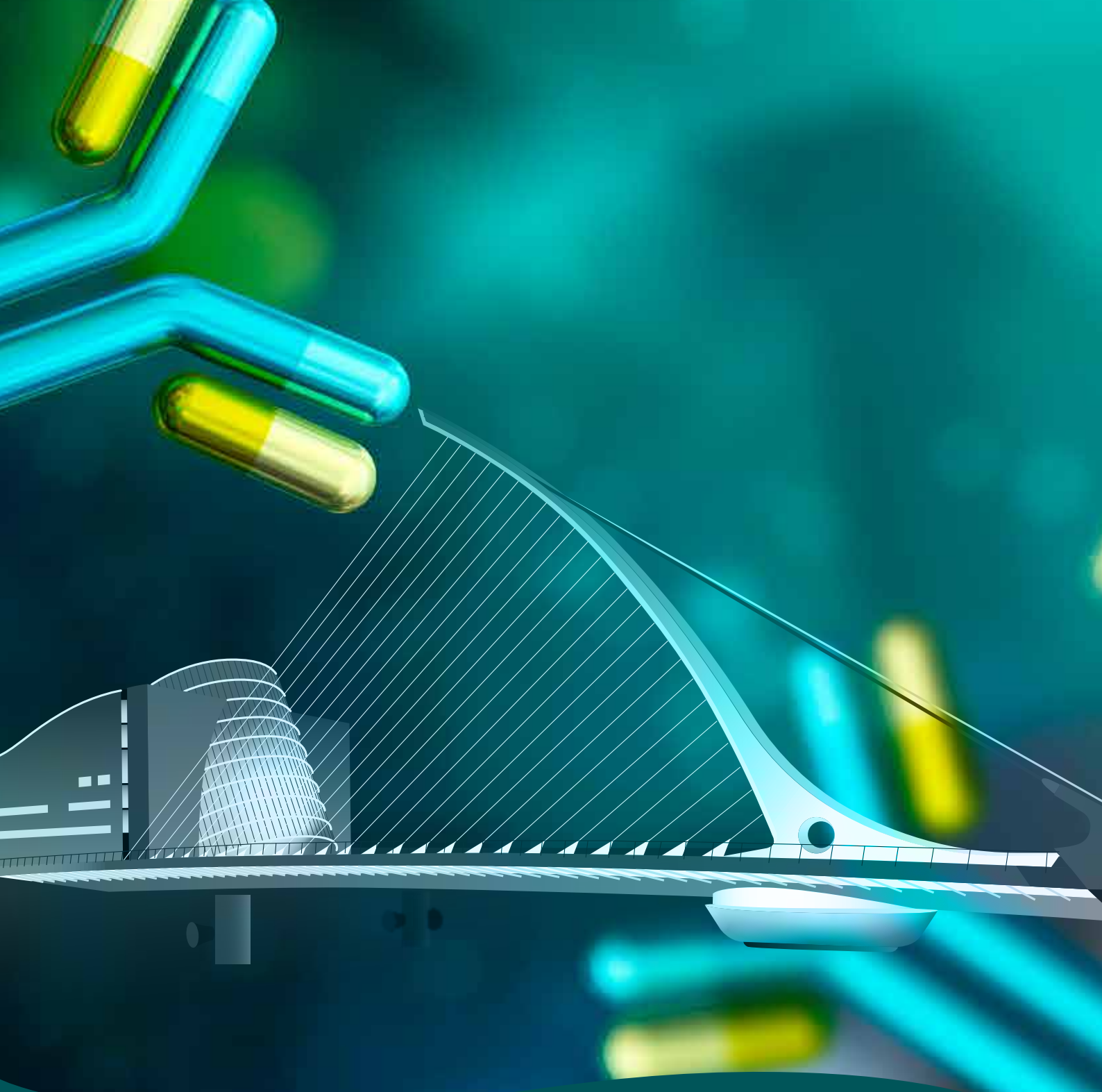
WEDNESDAY, 4 SEPTEMBER 2024

LIFFEY A | 14:25-15:40

SYMPOSIUM - THE DENDRITIC CELL FAMILY

Chairs: **Federica Benvenuti** (*Italy*), **Marco Cassatella** (*Italy*)

- 14:25 IDO in DC functions
Francesca Fallarino (*Italy*)
- 14:45 Human DC development and heterogeneity
Venetia Bigley (*United Kingdom*)
- 15:05 Targeting glycans for DC manipulation in therapy
Yvette Van Kooyk (*The Netherlands*)
- 15:25 Discussion



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