

# ECI 2024

## DUBLIN 1-4 SEPTEMBER

7<sup>th</sup> EUROPEAN CONGRESS OF IMMUNOLOGY

### PRELIMINARY PROGRAMME

7<sup>th</sup> EUROPEAN CONGRESS OF IMMUNOLOGY  
DUBLIN | IRELAND | 1-4 SEPTEMBER 2024  
*CONQUERING CHALLENGES WITH IMMUNOLOGY*

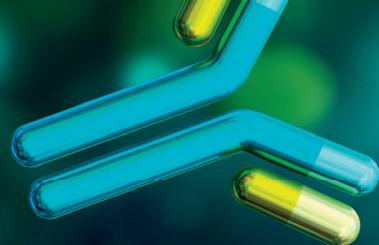


Irish Society  
for Immunology



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 PRESIDENTS 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**

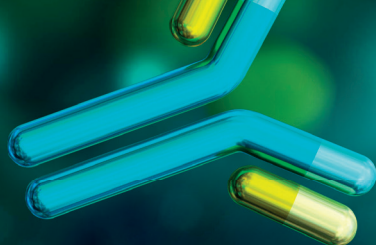
Chairs: **Joanne Lysaght** (*Ireland*), **Magdalena Winiarska** (*Poland*)

**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

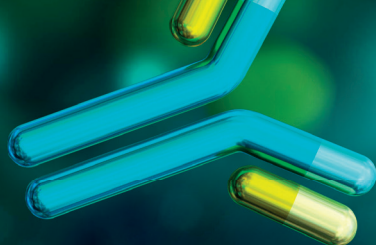
**AUDITORIUM | 11:55-12:40**

**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*)

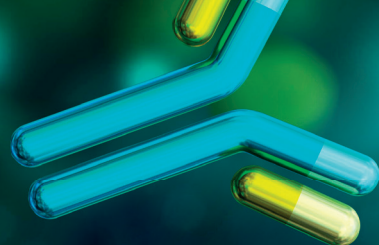
- 15:55**  $\gamma\delta$  T cell selection by BTNL proteins limits progression of IBD  
**Robin Dart** (*United Kingdom*)
- 16:15** Microglial function in autoimmunity  
**Ari Waisman** (*Germany*)
- 16:35** Identifying novel MAIT cell-specific antigens in Type 1 diabetes through drug discovery approaches  
**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*)

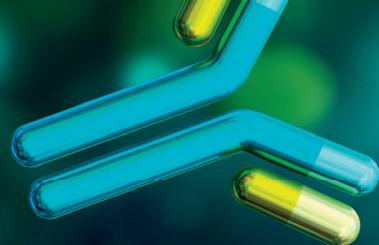
- 10:30** Impostors ,role models and the “lean in” fad: the path to diversity & equality is riddled with traps (and promising practices!)  
**Christopher Begeny** (*United Kingdom*)
- 11:00** Leading diverse teams  
**Silvie Klein-Franke** (*Switzerland*)
- 11:30** Discussion

**LIFFEY B | 10:30-11:45**

**SYMPOSIUM - RESOLUTION OF INFLAMMATION**

Chairs: **Attila Bacs** (*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*)

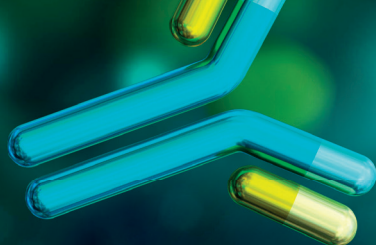
- 14:30** Immune cell crosstalk during neuroinflammation  
**Marina Babić Čač** (*Croatia*)
- 14:45** Role of secretory leukocyte protease inhibitor (SLPI) on local upper respiratory and systemic immune responses  
**Mieszko Wilk** (*Poland*)
- 15:00** Manipulation of T cell memory to enhance vaccine 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*)

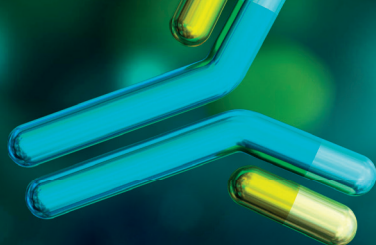
- 08:30 AIRE-mediated central tolerance  
**Ludger Klein** (*Germany*)
- 08:50 Targeted deletion of self reactive T cells  
**Dmitriy Chudakov** (*Czech Republic*)
- 09:10 AIRE and immune tolerance  
**Pärt Peterson** (*Estonia*)
- 09:30 Discussion

**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*)

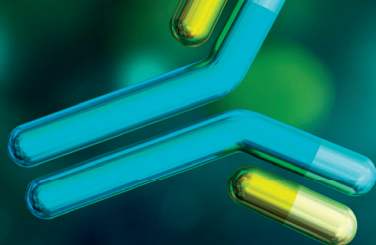
- 11:15** What makes molecular patterns of pathogens different from structures of commensals  
**Peter Sebo** (*Czech Republic*)
- 11:35** Immune-microbe interactions early in life  
**Petter Brodin** (*Sweden*)
- 11:55** Microbiota and psychiatric disorders  
**John Cryan** (*Ireland*)
- 12:15** Discussion

**AUDITORIUM | 13:30-14:15**

**KEYNOTE LECTURE 3**

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

- 13:30** TBA  
**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  
**Victor Greiff** (*Norway*)
- 14:45** Computational immunology on T cells  
**Inge Wortel** (*The Netherlands*)
- 15:05** Germinal centre modeling  
**Michael Meyer-Hermann** (*Germany*)
- 15:25** Discussion

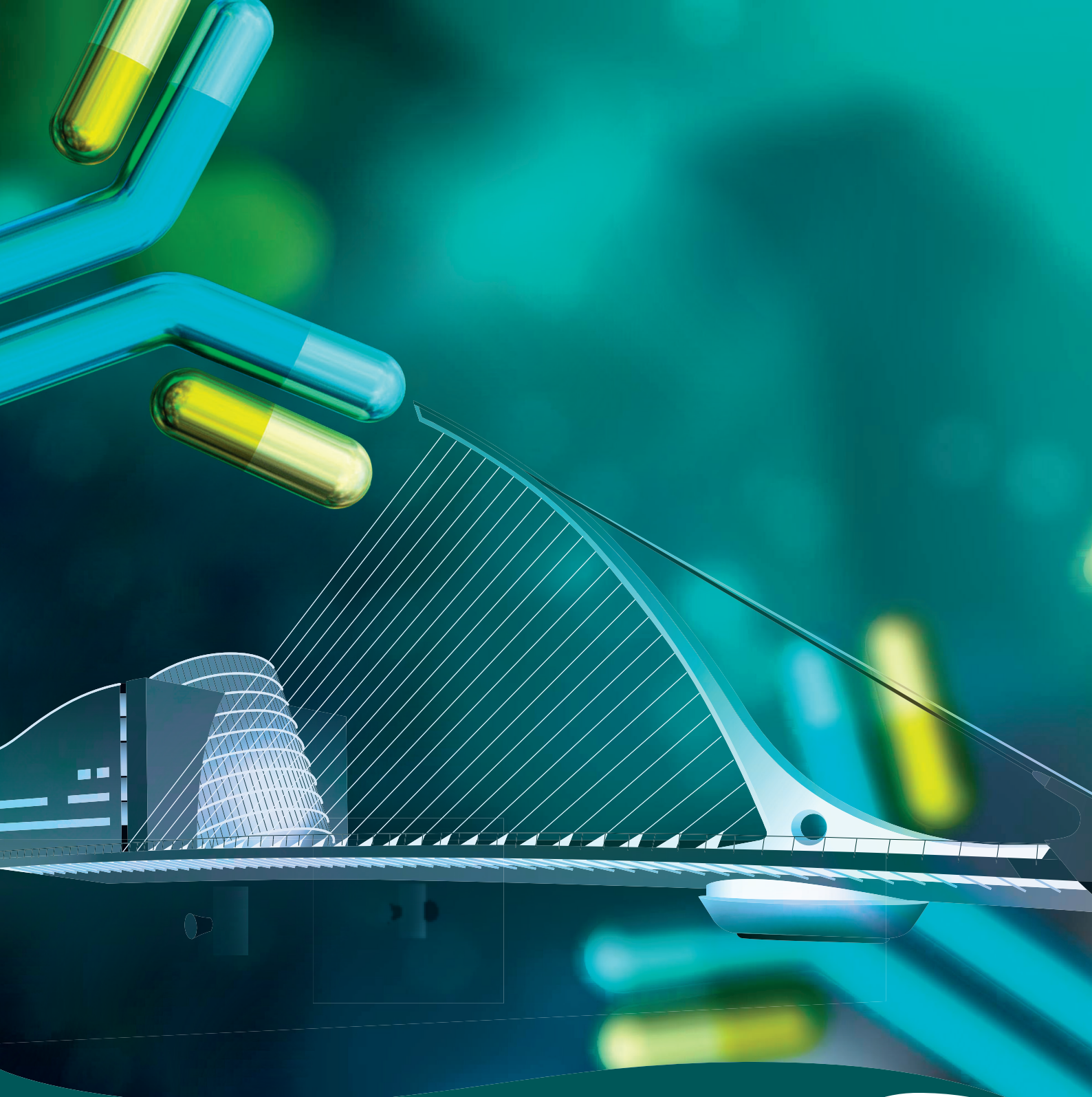
WEDNESDAY, 4 SEPTEMBER 2024

**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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