

**Theory to Therapy:  
orchestrating immune  
metabolism in  
inflammation**

**BIRAs**  
British Inflammation  
Research Association



**Students and Post Docs: £50**  
**Academic: £75 , Industry: £120**  
**Registration includes BIRAs membership**

**Abstract deadline for oral presentation: 1<sup>st</sup> Aug 2024**  
**Abstract deadline for poster presentation: 14<sup>th</sup> Aug 2024**  
See <http://www.biras.org> for more information



## OVERVIEW OF PROGRAMME

Outline of programme	
8:30	Registration & coffee
8:50	Introduction
9:00	<b>Luke O'Neill</b> - A break in mitochondrial endosymbiosis as a basis for inflammatory diseases
9:45	<b>Jan Van den Bossche</b> – Metabolic control of macrophages
10:30	Coffee
10:45	<b>Sarah Dimeloe</b> - Metabolic control of T cell function
11:30	<b>Sian Hensen</b> - Altered T cell bioenergetics drives T cell ageing
12:15	Lunch & posters
13:00	<b>Claudio Mauro</b> - Checkpoint blockade of immunometabolism targets in autoimmunity
13:30	<b>Chloe Lockwood</b> Glucocorticoids inhibit HIF-1 $\alpha$ accumulation and metabolic reprogramming in inflammatory macrophages
13:45	<b>Alba Llibre</b> - Long-term impact of obesity on the adaptive immune response
14:00	Short talk 3 – TBC
14:15	<b>Eva Palsson</b> - The role of PKM2 and mitochondrial dynamics in adenosine regulated IL-10 production
15:00	<b>Lee Booty</b> - Uncovering immunometabolic macrophage targets using multi-omic CRISPR screening
15:45	Coffee
16:00	<b>Tom Ashton</b> - TBC
16:45	<b>Frank Dorsey</b> - Targeting Metabolic Nodes that Regulate inflammation autoimmunity
17:30	Concluding remarks & meeting close

## SPEAKERS

**Luke O'Neil**



Luke holds the Chair of Biochemistry at Trinity College Dublin where he leads the Inflammation Research Group. His research is focused on the molecular basis of inflammation, with a particular emphasis on innate immunity, toll-like receptors, inflammasomes and metabolic reprogramming in macrophage activation.

**Eva Palsson**



Immunologist with a keen interest in clinical research, drug-discovery, scientific writing and developing novel therapeutics in immuno-oncology and immuno-inflammation. Currently based in the laboratory of Prof Luke O'Neill in Dublin whilst working as a Senior Scientific Investigator for Sitryx Therapeutics in Oxford, with a senior role in managing projects in immunology, target validation, immunometabolism and translational research.

**Jan Van den Bossche**



Jan is a principal investigator at the Department of Molecular Cell Biology and Immunology (VUmc) at the University of Amsterdam where his group how targeting macrophage metabolism can be applied to improve their function and disease outcome.

## SPEAKERS

### Sarah Dimeloe



Sarah Dimeloe is an Associate Professor working across the Institutes of Immunology and Immunotherapy, and Metabolism and Systems Research (IMSR). Research in Sarah's lab is focused on the metabolism of immune cells and how this underpins their role in health and disease.

### Sian Henson



Sian is a Professor of Immunology at the William Harvey Research Institute where her team investigates the deregulation of T cell metabolism during human ageing and how it maintains an inflammatory deleterious state.

### Lee Booty



Lee is a Scientific Investigator and GSK Fellow in GSK's Immunology Network, and a Fellow of the Royal Society of Biology with proven track record in project ideation and innovation driven objective delivery across the academia-industry bridge. He has a strong background in immunology, metabolism and mitochondrial biology coupled with expertise in using complex multi-omic and screening approaches.

## SPEAKERS

### Iain Kilty

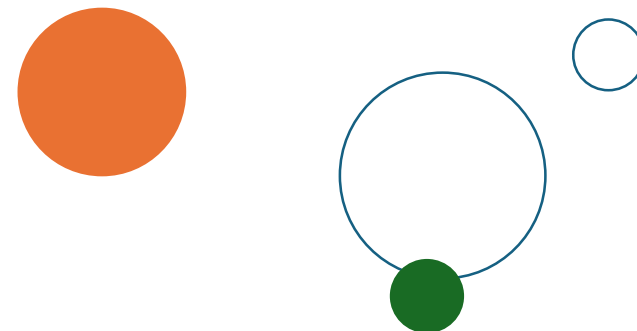


Iain is CSO at Sitryx Therapeutics and a venture partner at SV Health Investors. He has 25 years of global biopharmaceutical industry experience leading programmes from idea through to clinical development across a range of indications and therapeutic modalities. He developed as a drug discoverer through a 22-year tenure at Pfizer, starting as an internal industrial postdoc and taking on roles of increasing responsibility working across the drug discovery paradigm from target identification to leading the early clinical cluster in Rheumatology and Dermatology.

### Claudio Mauro



Professor Mauro trained as biochemist and cellular biologist, his group investigates the interconnections between metabolic and inflammatory pathways and how systemic and local metabolic alterations in diseases with an inflammatory component lead to aberrant immune cell responses, which favour both the establishment and the propagation of inflammation.



## VENUE INFORMATION

The venue for the meeting will be the Writer's Suite at the Edgbaston Park Hotel, Birmingham. For more information including how to get here please see their website at

<https://www.edgbastonparkhotel.com/>

There will be refreshments with tea, coffee and snacks and a lunch provided. Please let us know if you have any dietary requirements.

There will also be multiple opportunities for networking in the breaks and please feel free to bring along a poster, as there will be poster boards available.



## WHO ARE WE?

At the British Inflammation Research Association, we believe that the best science comes from keen researchers who wish to keep up with the latest and best in research in informal social settings. BIRAs has dedicated itself for 30 years to organising affordable meetings — as well as being a member of the International Association of Inflammation Societies (IAIS) providing the environment to make their collaborations a reality and for lifelong friendships.

## CONTACT US

See <http://www.biras.org> for more information

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