

Neutrophil 2020

Edinburgh, May 31-June 2 2020

Local Organizing Committee

Stephen A Renshaw, PhD *Co-chair*
University of Sheffield, UK

Sarah Walmsley, PhD *Co-chair*
University of Edinburgh, UK

Edwin Chilvers, PhD
Imperial College London, UK

Alison Condliffe, PhD
University of Sheffield, UK

Janet Lord, PhD
University of Birmingham, UK

Sussan Nourshargh, PhD
Queen Mary University of London, UK

Adriano Rossi, PhD
University of Edinburgh, UK

Sonja Vermeren, PhD
University of Edinburgh, UK

Helen Wright, PhD
University of Liverpool, UK

Neutrophil Meetings Steering Committee

Sylvain G Bourgoin, Québec City, Canada

Patrick P McDonald, Sherbrooke, Canada

Patrice E Poubelle, Québec City, Canada

Marc Pouliot, Québec City, Canada

International Advisory Board

Lee-Ann H Allen, Iowa City, USA

Nancy Berliner, Boston, USA

Sylvain Bourgoin, Québec, Canada

Sven Brandau, Essen, Germany

Marco A Cassatella, Verona, Italy

Sergio Catz, La Jolla, USA

Mary C Dinauer, St-Louis, USA

Michael Glogauer, Toronto, Canada

Sergio Grinstein, Toronto, Canada
Anna Huttenlocher, Madison, USA
Daniel Irimia, Boston, USA
Friederike Jönsson, Paris, France
Mariana Kaplan, Bethesda, USA
Ralph Kettritz, Berlin, Germany
Leo Koenderman, Utrecht, The Netherlands
Paul Kubes, Calgary, Canada
Klaus Ley, La Jolla, USA
Erzsébet Ligeti, Budapest, Hungary
Clifford A. Lowell, San Francisco, USA
Kenneth McLeish, Louisville, USA
William M. Nauseef, Coral City, USA
Mauro Peretti, London, UK
Carlos Rosales, México, Mexico
Irina Udalova, Oxford, UK
Silvia Uriarte, Louisville, USA
Véronique Witko-Sarsat, Paris, France
Teizo Yoshimura, Frederick, USA
Arturo Zychlinsky, Berlin, Germany

SPONSORS

TBC

SOCIAL PROGRAM

TBC

VENUE FLOOR PLANS

To follow

SCIENTIFIC PROGRAM

Sunday, May 31

- 15h00-18h00 On-site registration begins
- 19h00 **Introductory remarks** Co-chairs (S Renshaw, S Walmsley)
- 19h15-20h00 **Keynote Lecture:** Sussan Nourshargh (Queen Mary University London)
Title tbc
- 20h15 Welcome Reception

Monday, June 1

- 08h00 Coffee

Session I: Neutrophil Trafficking: Mechanisms, Regulation & Novel concepts

Chairs: Barbara Walzog, Tim Lämmerman

Will include cutting edge science using both in vitro and in vivo approaches aimed at deciphering mechanisms of neutrophil migration. Selected short-talks will similarly describe cutting edge works from young investigators and will complement the invited talks.

- 08h30-09h00 Barbara Walzog (Ludwig-Maximilians Universität, Munich, Germany)
Integrin signalling and neutrophil trafficking in innate immunity
- 09h00-09h15 Selected short talk
Title tbc
- 09h15-09h45 Lai Guan Ng (A*STAR, Singapore)
Neutrophils: the power of many
- 09h45-10h00 Selected short talk
Title tbc
- 10h00-10h30 Graham Lieschke (Royal Melbourne Hospital, Australia)
Neutrophils at work! New insights from in vivo imaging in zebrafish
- 10h30-11h00 COFFEE BREAK
- 11h00-11h15 Selected short talk
Title tbc
- 11h15-11h45 Anjelika Gonzalez (Yale University, New Haven, USA)
Fast and furious: tracking neutrophils in the microvascular wall

Poster session

- 11h45-13h30 Lunch and posters
- #### **Session II: Neutrophil signalling**

Chairs: Helen Wright, Len Stephens

13h30-14h00 Jamel El-Benna (Université Diderot, Paris, France)
Signalling pathways involved in NADPH oxidase priming and activation in human neutrophils

14h00-14h15 Selected short talk
Title tbc

14h15-14h45 Sonja Vermeren (University of Edinburgh, Edinburgh, UK)
Title tbc

14h45-15h00 Selected short talk
Title tbc

15h00-15h30 Attila Mocsai (Semmelweis University, Budapest, Hungary)
Neutrophil signalling in autoimmune and inflammatory diseases models

15h30-16h00 COFFEE BREAK

Session III: Neutrophil niches

Chairs: Sonja Vermeren, Oliver Söhnlein

Will explore the specialised roles of neutrophils in niche environments. Selected short-talks will similarly describe cutting edge works from young investigators and will complement the invited talks.

16h00-16h30 Ilaria Malanchi (Francis Crick Institute, London, UK)
Title tbc

16h30-16h45 Selected short talk
Title tbc

16h45-17h15 Filip Swirski (Harvard University, Boston, USA)
Title tbc

17h15-17h30 Selected short talk
Title tbc

17h30-18h00 Mia Phillipson (Uppsala University, Sweden)
Immune cells building blood vessels

Poster Session

18h00-20h00 Poster rooms, with drinks

Tuesday, June 2

08h00 Coffee

Session IV: Neutrophil kinetics and fate

Chairs: Edwin Chilvers, Andrés Hidalgo

08h30-09h00 Trian Chavakis (Technische Universität Dresden, Germany)
Title tbc

09h00-09h15 Selected short talk
Title tbc

09h15-09h45 Andrés Hidalgo (Spanish National Centre for Cardiovascular Research, Madrid, Spain)
Title tbc

09h45-10h00 Selected short talk
Title tbc

10h00-10h30 Sara Rankin (Imperial College, London, UK)
Title tbc

10h30-11h00 COFFEE BREAK

Session V: Resolution and Repair

Chairs: Adriano Rossi, Moira Whyte

11h00-11h30 Derek Gilroy (University College, London, UK)
Title tbc

11h30-11h45 Selected short talk
Title tbc

11h45-12h15 Lucy Norling (Queen Mary University, London, UK)
Title tbc

12h15-12h30 Selected short talk
Title tbc

12h30-13h00 Bruce Levy (Harvard University, Boston, USA)
Title tbc

Poster session

13h00-14h30 Lunch and posters

Session VI: Ongoing warfare: neutrophil-pathogen interactions and their outcomes

Chairs: Alison Condliffe, Alison Criss

Will include cutting edge science interrogating the host-pathogen interaction, including bactericidal function but also subversion of neutrophil functions by pathogens. Selected short-talks will similarly describe cutting edge works from young investigators and will complement the invited talks.

- 14h30-15h00 Bryan Yipp (University of Calgary, Canada)
Title tbc
- 15h00-15h15 Selected short talk
Title tbc
- 15h15-15h45 Isaac Chiu (Harvard University, Boston, USA)
Title tbc
- 15h45-16h00 Selected short talk
Title tbc
- 16h00-16h30 COFFEE BREAK
- 16h30-17h00 Thomas Rudel (Universtiy of Würzburg, Germany)
Title tbc
- 17h00-17h15 Selected short talk
Title tbc
- 17h15-17h45 Alison Criss (University of Virginia, Charlottesville, USA)
Title tbc
- 17h45-18h00 Selected short talk
Title tbc
- 18h00 Poster Awards
- 19h30 Conference dinner

Wednesday, June 3

08h00 Coffee

Session VII: Neutrophils in Disease

Chairs: Janet Lord, Bruce Levy

- 09:00 - 9:45 Keynote: Tanya Mayadas (Harvard University, Boston, USA)
Neutrophil plasticity and function in disease.
- 09:45- 10:15 J Edwin Blalock (University of Atlanta, USA)
Proteolytic Exosomes: Novel Effectors of Neutrophil-mediated Lung Destruction and Disease
- 10:15-10:30 Selected short talk
Title tbc
- 10:30-11:00 COFFEE BREAK

- 11:00-11:15 Suchita Nadkarni (Queen Mary University London, UK)
Neutrophil and T-cell cross-talk in vascular diseases.
- 11:15-11:30 Selected short talk
Title tbc
- 11:30-11:45 Selected short talk
Title tbc
- 11:45-12:15 Mikala Egeblad (Cold Spring Harbor Laboratory, USA)
Neutrophils as regulators of the metastatic tumour environment

Concluding remarks

12h15-12h45