

# European Platelet Summer School - University of Reading

4-6th September 2017

## SCHEDULE

### Monday 4<sup>th</sup> September

#### 10:00 Registration and refreshments

11:00	Introduction and historical overview of platelet research	Jon Gibbins	University of Reading
11:15	Platelet preparation, aggregation and secretion	Gavin Jarvis	University of Cambridge
11:40	In vitro flow models of platelet activation	Judith Cosemans	University of Maastricht
12:05	Flow cytometry and platelet counting	Chris Jones	University of Reading
12:30	Questions for the session speakers		

#### 12:45 Lunch and sponsors exhibition

13:45	The measurement of platelet function <i>in vivo</i>	Alex Brill	University of Birmingham
14:10	Secretion	Alastair Poole	University of Bristol
14:35	Platelets and coagulation	Johan Heemskerk	University of Maastricht
15:00	Questions for the session speakers		

#### 15:15 Refreshments, check-in and sponsors exhibition

**Group Discussions** led by Gavin Jarvis, Chris Jones, Alex Brill, Johan Heemskerk, Judith Cosemans and Alastair Poole

17:30	Microparticles and apoptosis	Matthew Harper	University of Cambridge
17:55	Cytoskeletal dynamics	Steve Thomas	University of Birmingham
18:20	Questions for the session speakers		
18:30	Careers	Steve Watson Nick Watkins Andrew Pearce	University of Birmingham NHSBT, Cambridge GSK

19:00

Bar

19:30

Dinner

### Tuesday 5<sup>th</sup> September

08:30	Receptors	Craig Hughes	University of Reading
08:55	Integrins and Small GTPases	Lucia Stefanini	Università degli Studi di Roma La Sapienza
09:20	Endothelium-derived inhibitory mechanisms	Khalid Naseem	Hull-York Medical School
09:45	Adhesion receptors and novel inhibitory mechanisms	Jon Gibbins	University of Reading
10:10	Questions for the session speakers		

#### 10:30 Refreshments and sponsors exhibition

**Group Discussions** led by Matthew Harper, Steve Thomas, Craig Hughes, Lucia Stefanini, Khalid Naseem, and Jon Gibbins

12:00	Kinases/Phosphatases	Ingeborg Hers	University of Bristol
12:25	Calcium channels	Martyn Mahaut-Smith	University of Leicester
12:50	Questions for the session speakers		

#### 13:00 Lunch and sponsors exhibition

#### 14:00 Practical Workshops

#### Subject Area

#### Topics to be covered

1. Super resolution microscopy

What super resolution microscopy offers the platelet biologists.  
How to design a super resolution experiment.

	How to prepare platelets for super resolution microscopy.
2. High throughput quantitative electrophoresis and immunoblotting	How to make your experiments truly quantitative Selecting antibody combinations. Fluorescence versus chemiluminescence. How to generate 1000 data points per day.
3. Ex vivo thrombus formation Under flow	Selecting an appropriate shear. Effect of anticoagulant. Appropriate data analysis.
4. Flow Cytometry	Designing a platelet flow cytometry experiment. Whole blood, PRP or washed cells. Sample fixation. Real-time analysis. The use of beads in flow cytometry.
5. Platelet and Maths	Use of maths modelling
6. Aggregation	LTA, impedance and dense granule secretion
7. Microparticle measurement	Fluorescent Nanoparticle Tracking Analysis (NTA) Flow cytometry – comparison and limitations

**19:00 Bar**  
**19:30 Dinner**

### Wednesday 6<sup>th</sup> September

<b>08:30</b>	Anti-platelet drugs, current and future	Tim Warner	William Harvey Research Institute
<b>08:55</b>	Platelet research in isolated thrombopathies and multi system disorders.	Kathleen Freson	University of Leuven
<b>09:20</b>	Platelet Genomics – What have we learned?	Kate Downs	University of Cambridge
<b>09:45</b>	Questions for the session speakers		
<b>10:00</b>	<b>Refreshments and sponsors exhibition</b> <b>Group Discussions</b> led by Tim Warner, Kathleen Freson, Kate Downs, Ingeborg Hers and Martyn Mahaut-Smith		
<b>11:30</b>	Primary megakaryocytes and megakaryocyte cell lines in the study of megakaryocyte and platelet function	Sonia Severin	INSERM, U1048 and Université Toulouse
<b>11:55</b>	Megakaryocytes and myeloproliferative disorders	Cedric Ghevaert	University of Cambridge
<b>12:20</b>	Zebra fish, megakaryocytes and haematopoiesis	Ana Cvejic	University of Cambridge
<b>12:45</b>	Questions for the session speakers		
<b>13:00</b>	<b>Lunch and sponsors exhibition</b>		
<b>14:00</b>	Platelets, bacteria, and cardiovascular infections	Monica Arman	Hull York Medical School
<b>14:25</b>	Platelets and Alzheimer's disease	Ilaria Canobbio	University of Pavia
<b>14:50</b>	Platelets, development and links to cancer	Alice Pollitt	University of Reading
<b>15:15</b>	Questions for the session speakers		
<b>15:30</b>	<b>Refreshments and sponsors exhibition</b> <b>Group Discussions</b> led by Cedric Ghevaert, Ana Cvejic, Monica Arman, Sonia Severin, Alice Pollitt and Ilaria Canobbio.		
<b>16:30</b>	<b>Concluding remarks</b>	Jon Gibbins	University of Reading
<b>16:45</b>	<b>Close of European Platelet Summer School</b>		