European Platelet Summer School - University of Reading 4-6th September 2017

SCHEDULE

11:00 Introduction and refreshments 11:00 Introduction and historical overview of platelet research 11:15 Platelet preparation, aggregation and secretion 11:15 Platelet preparation, aggregation and secretion 11:10 In vitro flow models of platelet activation 11:10 In vitro flow models of platelet activation 11:20:5 Flow cytometry and platelet counting 12:30 Questions for the session speakers 12:45 Lunch and sponsors exhibition 13:45 The measurement of platelet function in vivo 14:10 Secretion 14:10 Secretion 14:10 Secretion 14:10 Secretion 14:10 Secretion 14:10 Johan Heemskerk 15:15 Refreshments, check-in and sponsors exhibition 15:00 Questions for the session speakers 15:15 Refreshments, check-in and sponsors exhibition 17:20 Microparticles and apoptosis 17:30 Microparticles and apoptosis 17:30 Microparticles and apoptosis 17:55 Cytoskeletal dynamics 18:20 Questions for the session speakers 18:30 Careers 18:30 Careers 19:00 19:0	Monday 4 th September				
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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 How to make your experiments truly quantitative

electrophoresis and immunoblotting 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

LTA, impedance and dense granule secretion 6. Aggregation

7. Microparticle measurement Fluorescent Nanoparticle Tracking Analysis (NTA)

Flow cytometry – comparison and limitations

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

Wednesday 6th September

08:30 Anti-platelet drugs, current and future	Tim Warner	William Harvey Research
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Institute

08:55 Platelet research in isolated thrombopathies Kathleen Freson University of Leuven

and multi system disorders.

09:20 Platelet Genomics – What have we learned? University of Cambridge Kate Downs

09:45 Questions for the session speakers

Refreshments and sponsors exhibition

Group Discussions led by Tim Warner, Kathleen Freson, Kate Downs, Ingeborg Hers and Martyn Mahaut-Smith

11:30	Primary megakaryocytes and megakaryocyte cell	Sonia Severin	INSERM, U1048 and
	lines in the study of megakaryocyte and platelet function		Université Toulouse
11:55	Megakaryocytes and myeloproliferative disorders	Cedric Ghevaert	University of Cambridge
12:20	Zebra fish, megakaryocytes and haematopoiesis	Ana Cveiic	University of Cambridge

12:45 Questions for the session speakers

13:00 Lunch and sponsors exhibition

14.00	Platelets, bacteria, and cardiovascular infections	Monica Arman	Hull York Medical School
14:25	Platelets and Alzheimer's disease	Ilaria Canobbio	University of Pavia
14:50	Platelets, development and links to cancer	Alice Pollitt	University of Reading

15:15 Questions for the session speakers

15:30 Refreshments and sponsors exhibition

Group Discussions led by Cedric Ghevaert, Ana Cvejic, Monica Arman, Sonia Severin, Alice Pollitt and Ilaria Canobbio.

16:30 Concluding remarks Jon Gibbins University of Reading 16.45 Close of European Platelet Summer School