



BioMalPar XV: Biology and Pathology of the Malaria Parasite

EMBL CONFERENCE

We have moved our website to embl.org/events. The content below is no longer being updated.

EMBL Courses and Conferences during the Coronavirus pandemic

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found [here](#).

Programme

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Day 1 - Tuesday 28 May 2019

Time	Speaker
09:00 - 10:45	Registration
10:45 - 11:00	Opening Remarks
11:00 - 12:15	Scientific Session 1: Vector Biology and Transmission Chairs: Sebastian Kirschner, Gunnar Mair
11:00 - 11:30	Keynote Lecture The complexity of <i>Anopheles-Plasmodium</i> interactions (and a novel strategy to block them) Flaminia Catteruccia - <i>Harvard TH Chan School of Public Health, USA</i>

Time	Speaker
11:30 - 11:45	<p>Conserved heterodimeric structure & glycan specificity of C-type lectins <i>Anopheles gambiae</i> CTLMA2 and CTL4</p> <p>Ritika Bishnoi - <i>The Lewis Katz School of Medicine at Temple University, USA</i></p>
11:45 - 12:00	<p>The regulatory genome of the human malaria vector, <i>Anopheles gambiae</i>: an integrated analysis of chromatin accessibility and transcription</p> <p>Elena Gómez-Díaz - <i>Spanish National Research Council, Spain</i></p>
12:00 - 12:15	<p>Glycosylation of <i>Plasmodium falciparum</i> thrombospondin repeats drives mosquito transmission and sporozoite virulence</p> <p>Justin Boddey - <i>The Walter and Eliza Hall Institute of Medical Research, Australia</i></p>
12:15 - 13:45	<p>Lunch and Meet the Keynote Speaker</p>
12:45 - 13:45	<p>Workshop: Crowdsourcing Data Science Challenges in Malaria Research</p> <p>Chairs: Geoffrey Siwo, Carol Sibley</p>
12:45 - 13:45	<p>Workshop: Online Resources for Malaria Biology</p> <p>Chairs: Matt Berriman, Omar Harb, Dan Lawson</p>
13:45 - 15:30	<p>Scientific Session 2: BIG Data and New Tools</p> <p>Chairs: Jessica Bryant, Edgar Deu</p>
13:45 - 14:15	<p>Keynote Lecture</p> <p>The excitement and limitation of a reference genome</p> <p>Thomas Otto - <i>University of Glasgow, UK</i></p>
14:15 - 14:30	<p>Using experimental genetic crosses and bulk segregant analysis to investigate <i>Plasmodium falciparum</i> fitness determinants throughout the life cycle</p> <p>Sudhir Kumar - <i>Seattle Children's Research Institute, USA</i></p>
14:30 - 14:45	<p>Comparative mapping of <i>Plasmodium</i> proteomes provides new insights into erythrocyte remodelling</p> <p>Peter Preiser - <i>Nanyang Technological University, Singapore</i></p>
14:45 - 15:00	<p>Decoding a riddle: <i>Plasmodium falciparum</i> long dry season pilgrimage</p> <p>Richard Thomson Luque - <i>Heidelberg Clinical Hospital, Germany</i></p>
15:00 - 15:15	<p>IPS cell technology: A great tool to study hypnozoites and pave the road towards malaria elimination</p> <p>Mélanie Pellisson - <i>Swiss Tropical and Public Health Institute, Switzerland</i></p>

Time	Speaker
15:15 - 15:30	Stem cells as a tool to study malaria: the host side of the infection Alena Pance - <i>The Wellcome Sanger Institute, UK</i>
15:30 - 16:00	Flash Talks - Odd Numbers (abstract: #55, #57, #89, #97, #119, #121, #135, #139)
16:00 - 16:30	Coffee Break and Meet the Keynote Speaker
16:30 - 18:30	Poster Session 1 - Odd Numbers
18:30 - 19:15	Lifetime Achievement Award
19:15 - 20:30	Dinner in the EMBL Canteen
20:30 - 23:00	Welcome Reception in the ATC Rooftop Lounge

Day 2 - Wednesday 29 May 2019

Time	Speaker
09:00 - 10:30	Scientific Session 3: Development and Differentiation Chairs: Bjorn Kafsack, Kathrin Witmer
	Keynote Lecture
09:00 - 09:30	Plasmodium gametocyte development: insights from human infection and animal models Matthias Marti - <i>University of Glasgow, UK</i>
09:30 - 09:45	The patatin-like phospholipase PNPLA1 is crucial for gametocyte induction in the human malaria parasite Plasmodium falciparum Gabriele Pradel - <i>RWTH Aachen University, Germany</i>
09:45 - 10:00	A parasite load regulator important for virulence and transmission of the malaria parasite Plasmodium falciparum Alexander G. Maier - <i>The Australian National University Canberra, Australia</i>
10:00 - 10:15	Plasmodium falciparum immature gametocytes development in human primary erythroblasts Gaëlle Neveu - <i>INSERM, France</i>
10:15 - 10:30	A Histone-Lysine N-Methyltransferase is Required for Efficient Development of Plasmodium in the Mosquito Vector Sebastian Kirchner - <i>University of Glasgow, UK</i>
10:30 - 11:00	Coffee Break and Meet the Keynote Speaker

- 11:00 - 12:30 **Scientific Session 4: Drug Development and Resistance**
Chairs: Selina Bopp, Stefan Rahlfs
- Keynote Lecture**
- 11:00 - 11:30 **Targetting Proteostasis for Antimalarial Drug Development**
Leann Tilley - *The University of Melbourne, Australia*
- 11:30 - 11:45 **Cyclic AMP-mediated activation of erythrocyte permeability increases antimalarials uptake by Plasmodium falciparum gametocytes**
Catherine Lavazec - *INSERM, France*
- 11:45 - 12:00 **Function of Kelch13 in Artemisinin-resistance in malaria parasites**
Sabine Schmidt - *Bernhard Nocht Institute for Tropical Medicine, Germany*
- 12:00 - 12:15 **Redox homeostasis as a drug target in Plasmodium falciparum gametocytes**
Dina Coertzen - *University of Pretoria, South Africa*
- 12:15 - 12:30 **A novel antimalarial resistance mechanism leads to structure guided identification of resistance breaking Plasmodium N myristoyltransferase inhibitors**
Anja Schlott - *The Francis Crick Institute, UK*
- 12:30 - 14:00 **Lunch and Meet the Keynote Speaker**
- 13:00 - 14:00 **Workshop: Women In Malaria Research: Visibility, empowerment and leadership**
Chairs: Elena Gomez-Diaz, Joanne Power
- 13:00 - 14:00 **Workshop: Drug Discovery for Biologists**
Chair: Didier Leroy
- 14:00 - 15:30 **Scientific Session 5: Immunology and Vaccine Development**
Chairs: Melanie Walker, Hedda Wardemann
- Keynote Lecture**
- 14:00 - 14:30 **Immunological impact of subclinical malaria infections**
Eleanor Riley - *The University of Edinburgh, UK*
- 14:30 - 14:45 **Importance of functional antibodies in protection of pregnant women from malaria**
Timon Damelang - *University of Melbourne, Australia*
- 14:45 - 15:00 **Comprehensive analysis of Fc-mediated IgM binding to the Plasmodium falciparum erythrocyte membrane protein 1 family in three parasite clones**
Lars Hviid - *University of Copenhagen, Denmark*
- 15:00 - 15:15 **The discovery of new insertions in antibodies against malaria**
Yiwei Chen - *Institute for Research in Biomedicine, Switzerland*

15:15 - 15:30	B cell profiling in malaria reveals expansion and remodelling of CD11c+ B cell subsets Christopher Sundling - <i>Karolinska Institutet, Sweden</i>
15:30 - 16:00	Flash Talks - Even Numbers (abstract: #50, #54, #68, #86, #92, #94, #102, #126, #128, #152)
16:00 - 16:30	Coffee Break and Meet the Keynote Speaker
16:30 - 18:30	Poster Session 2 - Even Numbers
18:30 - 20:30	Conference Dinner in the EMBL Canteen
20:30 - 00:00	Conference Party

Day 3 - Thursday 30 May 2019

Time	Speaker
09:00 - 10:30	Scientific Session 6: Cell and Molecular Biology Chairs: Michael Filarsky, Vera Mitesser
	Keynote Lecture
09:00 - 09:30	Plasmodium vivax invasion: structural scaffolds and human monoclonal antibodies Wai-Hong Tham - <i>The Walter and Eliza Hall Institute of Medical Research, Australia</i>
09:30 - 09:45	Identification of PfAP2-HS as the master regulator of the heat shock response in Plasmodium falciparum parasites Elisabet Tintó - <i>ISGlobal, Spain</i>
09:45 - 10:00	Formin-2 is the primary nucleator of filamentous actin during intracellular blood stages of P. falciparum, facilitating apicoplast inheritance and completion of cytokinesis Sujaan Das - <i>Ludwig Maximilian University, Germany</i>
10:00 - 10:15	Plasmodium falciparum dipeptidyl aminopeptidases 1 and 3 play complementary function in erythrocytes invasion Edgar Deu - <i>The Francis Crick Institute, UK</i>
10:15 - 10:30	Functional characterization of a minimal ESCRT-III machinery in P. falciparum Yunuen Avalos Padilla - <i>Institute for Bioengineering of Catalonia, Spain</i>
10:30 - 10:45	Plasmodium condensin (SMC2/SMC4) forms differential complexes and is required for atypical cell division during parasite life cycle Rita Tewari - <i>University of Nottingham, UK</i>

10:45 - 11:00	Activation of the malarial cGMP dependent protein kinase (PKG) by cGMP: a tale of co-operation and affinity Konstantinos Kousis - <i>The Francis Crick Institute, UK</i>
11:00 - 11:30	Coffee Break and Meet the Keynote Speaker
11:30 - 13:00	Scientific Session 7: Host-Parasite Interaction Chairs: Franziska Hentzschel, Gerhard Wunderlich
11:30 - 12:00	Keynote Lecture A double-edged sword: innate and adaptive immunity to Plasmodium liver infection Stefan Kappe - <i>Center for Infectious Disease Research, USA</i>
12:00 - 12:15	Laverania RH5-basigin binding tropisms reveal a key event in the origin of P. falciparum malaria Francis Galaway - <i>The Wellcome Sanger Institute, UK</i>
12:15 - 12:30	"Microbiota"-A new player in Host-Plasmodium affair Debanjan Mukherjee - <i>Instituto de Medicina Molecular, Portugal</i>
12:30 - 12:45	var gene expression in malaria naive volunteers experimentally infected with two genetically different P. falciparum strains Jan Stephan Wichers - <i>Bernhard Nocht Institute for Tropical Medicine, Germany</i>
12:45 - 13:00	Combining reverse genetics and live microscopy to dissect P. knowlesi invasion of red blood cells Melissa Hart - <i>London School of Hygiene and Tropical Medicine, UK</i>
13:00 - 15:00	Lunch and Meet the Keynote Speaker
13:30 - 15:00	Plenary Session: Changing Practices in Publishing Chair: Gary Ward
15:00 - 15:10	Awards for Best Poster and Oral Presentations
15:10 - 15:20	Closing remarks
15:20 - 15:30	Departure Bus to Heidelberg downtown Bus to Frankfurt Airport