



BioMalPar XVI: Biology and Pathology of the Malaria Parasite - Virtual

EMBL CONFERENCE

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

Got something to say? Tweet it! #EMBLMalaria

Day 1 - Monday 18 May 2020

Time (CEST)	Speaker
13:00 - 13:10	Opening remarks by the scientific organisers Alfred Cortés, Silvia Portugal, Sam Wassmer
13:10 - 14:25	Virtual Session 1 - Emerging Challenges and new tools Chair: Andy Waters
13:10 - 13:40	Keynote lecture Novel tools provide insights into Kelch13 function and Artemisinin resistance Tobias Spielmann - Bernhard Nocht Institute for Tropical Medicine, Germany

Time (CEST)	Speaker
13:40 - 13:55	Toward novel antimalarial to eliminate K13 artemisinin resistance and prevent it spread to Africa Laurent Dembele - Université des Sciences, des Techniques et des Technologies de Bamako, Mali
13:55 - 14:10	Mapping the druggable landscape of malaria parasite through thermal proteome profiling Jerzy Dziekan - Nanyang Technological University, Singapore
14:10 - 14:25	Purification & Characterization of Plasmodium Tubulin – A novel lead to anti-Malarial drug discovery Simone Reber - Humboldt University of Berlin, Germany
14:25 - 14:30	Break
14:30 - 15:00	Special interest lecture The potential Covid- Malaria interface: Impact on research and beyond Regina Rabinovich - ISGlobal, Spain
15:00 - 16:15	Virtual Session 2 - Parasite biology Chair: Alfred Cortés
15:00 - 15:30	Keynote lecture Escaping lockdown: Early signaling for parasite egress from red blood cells Manoj Duraisingh- Harvard T.H. Chan School of Public Health, USA
15:30 - 15:45	Malaria parasite PKG binds to and phosphorylates a putative transporter essential for critical calcium signals during erythrocytic proliferation and transmission to the mosquito Mathieu Brochet - University of Geneva, Switzerland
15:45 - 16:00	RNA guanine-quadruplexes: Do they play a role in post-transcriptional regulation in P. falciparum? Franck Dumetz - University of Cambridge, UK
16:00 - 16:15	Plasmodium exploitation of liver-specific methionine metabolism Vanessa Zuzarte-Luis - Instituto de Medicina Molecular, Portugal
16:15 - 17:15	Break and Virtual Poster Session 1 (all posters) with discussion channel on slack
17:15 - 18:45	Virtual Session 3 - "Omics" approaches & evolution Chair: Julian Rayner

Time (CEST)	Speaker
17:15 - 17:45	Keynote lecture How Plasmodium vivax-like genomic approaches shed new insights into Plasmodium vivax biology and evolution Virginie Rougeron - CNRS, France
17:45 - 18:00	Defining the parasite host interplay in vivo at the single cell level Franziska Hentzschel - University of Glasgow, UK
18:00 - 18:30	Keynote lecture The Evolutionary Genomics of Plasmodium in India Jane M. Carlton - New York University, USA
18:30 - 18:45	Host inflammation impairs maturation of blood-stage Plasmodium parasites in mice Lianne Lansink - Queensland University of Technology and University of Melbourne, Australia

Day 2 - Tuesday 19 May 2020

Time (CEST)	Speaker
11:30 - 12:30	Optional: Virtual Pub Quiz
13:00 - 14:15	Virtual Session 4 - Epidemiology & surveillance Chair: Sam Wassmer
13:00 - 13:30	Keynote lecture Insights from serology into malaria transmission dynamics Chris Drakeley - London School of Hygiene & Tropical Medicine, UK
13:30 - 13:45	Individual-level variations in malaria susceptibility and acquisition of clinical protection Mario Recker - University of Exeter, UK
13:45 - 14:00	Whole-genome sequencing reveals epidemiological history of P. falciparum populations in the Pacific coast of South America Manuela Carrasquilla - Harvard T.H. Chan School of Public Health, USA
14:00 - 14:15	Rapid shifts in the age-specific burden of malaria following successful control interventions in four regions of Uganda Simon Kigozi - London School of Hygiene & Tropical Medicine, UK
14:15 - 14:20	Break

- Special interest lecture**
- 14:20 - 14:50 Sustainability in Science Labs**
Martin Farley - Green Lab Associates, UK
- 14:50 - 16:05 Virtual Session 5 - Pathogenesis & Immunology**
Chair: Sam Wassmer
- Keynote lecture**
- 14:50 - 15:20 Targeting CD8+ T cells: A paradigm shift in treating cerebral malaria?**
Brittany Riggle - National Institute of Allergy and Infectious Diseases, USA
- 15:20 - 15:35 Plasmodium falciparum increased time in circulation prior to cytoadhesion during the dry season - mediated by altered host cell remodeling?**
Hannah Fleckenstein - Heidelberg University Hospital, Germany
- 15:35 - 15:50 A potent anti-PfCSP human monoclonal antibody neutralizes sporozoites in the skin and liver**
Lawrence Wang - NIH, USA
- 15:50 - 16:05 The role of CCR2 in the resolution of malaria-associated acute respiratory distress syndrome**
Emilie Pollenus - KU Leuven, Belgium
- 16:05 - 16:20 A humanized mouse model for Plasmodium vivax to test interventions that block liver stage to blood stage transition and blood stage infection**
Carola Schaefer - Seattle Children's Research Institute, USA
- 16:20 - 17:20 Break and Virtual Poster Session 2 (all posters) with discussion channel on slack**
- 17:20 - 18:35 Virtual Session 6 - Transmission biology**
Chair: Silvia Portugal
- Keynote lecture**
- 17:20 - 17:50 Mosquito midgut stem cells promote tissue remodeling and limit Plasmodium oocyst survival**
Carolina Barillas-Mury National Institute of Allergy and Infectious Diseases, USA
- 17:50 - 18:05 The role of TEP12 in the antiparasitic immunity of Anopheles mosquitoes**
Dennis Klug - Inserm, France
- 18:05 - 18:20 A divergent cyclin/cyclin-dependent kinase complex controls the atypical replication of Plasmodium berghei during gametogony and parasite transmission**
Aurélia Balestra - University of Geneva, Switzerland

- 18:20 - 18:35 **Time is all that matters: Temporal control of transmission efficiency**
Inês Bento - Instituto de Medicina Molecular, Portugal
- 18:35 - 18:45 **Shahid Khan - In Memoriam**
Andy Waters - University of Glasgow, UK
- 18:45 - 18:50 **Closing remarks by the emeritus steering group members**
Andy Waters, Julian Rayner