

**Program**

**Thursday, May 6, 2021**

1.45 p.m.	Opening and Welcome by SFB 1129 Spokesman
<b>Session I</b>	<b>Session Chair: Ulrich Schwarz</b>
2.00 p.m.	Short talk: Pintu Patra, Heidelberg (Project Schwarz) <i>Imaging red blood cell remodelling by P. falciparum</i> Short talk: Joana Caria, Heidelberg (Project Lemke) <i>Molecular determinants of large cargo transport into the nucleus</i>
2.10-2.40	Maria Bernabeu, Barcelona <i>Developing 3D brain microvascular for cerebral malaria research</i>
2.40-3.10	Christine Selhuber-Unkel, Heidelberg <i>Migration of Acanthamoeba trophozoites in synthetic microenvironments</i>
3.10-3.40	Jochen Guck, Erlangen <i>Physical phenotyping of cell functional changes at 1000 cells/sec</i>
3.40-4.00	Break
<b>Session II</b>	<b>Session Chair: Motomu Tanaka</b>
4.00 p.m.	Short talk: Zhaozhi Sun, Heidelberg (Project Ruggieri) <i>Dynamical and Biophysical Properties of Virus-induced Stress Granules</i> Short talk: Charlotte Decker, Heidelberg (Project Dao Thi) <i>The role of hepatitis E virus ORF3 protein in polarized viral secretion</i>
4.10-4.40	E. Ada Cavalcanti-Adam, Heidelberg <i>Cellular and molecular forces involved in particle uptake</i>
4.40-5.10	David Alsteens, Louvain-la-Neuve <i>Probing Virus Binding Sites to Animal Cells Using Atomic Force Microscopy</i>
5.10-5.40	Dirk Grimm, Heidelberg <i>Fighting fire with fire - use of viral vectors to study, prevent or treat viral infections</i>
5.40-7.00	Break

**Session III** **Session Chair: Friedrich Frischknecht**

7.00 p.m.	Short talk: Julian Czajor, Heidelberg (Project Tanaka) <i>Influence of haemoglobinopathie on biomechanics of Plasmodium falciparum infected erythrocytes</i> Short talk: Marianne Papagrigorakes, Heidelberg (Project Lanzer) <i>Tracking the adhesion of Plasmodium falciparum infected erythrocytes under flow</i>
7.10-7.40	Isabelle Tardieux, Grenoble <i>Decoding the top gliding performance of the protozoan parasite Toxoplasma gondii</i>
7.40-8.10	Friedrich Frischknecht, Heidelberg <i>Keeping in shape for efficient malaria parasite migration and transmission</i>
8.10-8.40	Boris Striepen, Philadelphia <i>Biology of the enteric parasite Cryptosporidium</i>

**Friday, May 7, 2021**

<b>Session IV</b>	<b>Session Chair: Alessia Ruggieri</b>
2.00 p.m.	Short talk: Samy Sid Ahmed, Heidelberg (Project Fackler) <i>Concepts of HIV-1 spread in 3D collagen environments</i> Short talk: Lara Gallucci, Heidelberg (Project Fackler) <i>Effects of the 3D environment on functional interactions between Dendritic Cells and HIV</i>
2.10-2.40	Eric Snijder, Leiden <i>From replication to spread: The coronavirus escape room</i>
2.40-3.10	Thomas Höfer, Heidelberg <i>Dynamics of dengue virus replication at single-cell resolution</i>
3.10-3.40	Steeve Boulant, Heidelberg <i>Single cell RNA sequencing of human intestinal organoids reveals lineage-specific intrinsic immune response to enteric viruses</i>
3.40-4.00	Break

**Session V** **Session Chair: Barbara Müller**

4.00 p.m.	Short talk: Steffen Klein, Heidelberg (Project Chlanda) <i>Influenza A virus membrane fusion inhibition by IFITM3 characterized by in cellulo cryo-electron tomography</i> Short talk: Neti Jyothirmai, Heidelberg (Project Brügger) <i>Proteome-wide mapping of protein-sphingolipid interactions in IAV-infected A549 cells</i>
4.10-4.40	John Briggs, Cambridge <i>In situ structural studies of virus matrix proteins</i>
4.40-5.10	Markus Ganter, Heidelberg <i>Uncovering the regulation of Plasmodium falciparum proliferation</i>
5.10-5.40	Victoria Ingham, Heidelberg <i>The complexity of insecticide resistance in malaria vectors</i>
5.40-7.00	Break

**Session VI** **Session Chair: Oliver Fackler**

7.00 p.m.	Short talk: Sandra Schifferdecker, Heidelberg (Project Müller) <i>Directly labelled HIV-1 CA using an expanded genetic code</i> Short talk: Ines de Castro, Heidelberg (Project Lusic) <i>Nuclear pore complex in HIV-1 integration and host genome dynamics</i>
7.10-7.40	Hans-Georg Kräusslich, Heidelberg and Martin Beck, Frankfurt <i>Nuclear entry of capsid-encased HIV-1 replication complexes</i>
7.40-8.10	Walther Mothes, New Haven <i>Imaging retroviruses and SARS-CoV-2 across spatial and temporal scales</i>
8.10	end