

Mechanotransduction of Host-Pathogen Interactions

December 17th, 2018

Auditorium Biopark
11, rue Watt
Paris 13^e, France

- ▶ 9 :00am – 9 :30am Welcome
- ▶ 9 :30am – 9 :40am **Introduction by organizers**
- Session 1: Biophysics of Parasite-host cell interactions**
- ▶ 9 :40am – 10 :15am **Markus ENGSTLER**, Center for Computational and Theoretical Biology, Würzburg, Germany
 “From solitary swimmers to swarms and back: trypanosomes on their journey through the tsetse fly and beyond”
- ▶ 10 :15am – 10 :30am Short talk
- ▶ 10 :30am – 11 :05am **Pierre BUFFET**, Integrated red cell biology, Paris, France
 “Malaria, red cells and red spleen: from mechanical friction to controllable infection?”
- ▶ 11 :05am – 11 :25pm **Coffee Break**
- ▶ 11 :25am – 12 :00pm **Isabelle TARDIEUX**, Institute for Advanced Biosciences, Grenoble, France
 “The Toxoplasma tour de force to unfold the intravacuolar developmental program in metazoan cells”
- ▶ 12 :00pm – 12 :15pm Short talk
- ▶ 12 :15pm – 12 :50pm **Friedrich FRISCHKNECHT**, Parasitology Heidelberg University, Heidelberg, Germany
 “Forces and shape changes of Plasmodium sporozoites during transmission of malaria”
- ▶ 12 :50pm – 1:05pm Short talk
- ▶ 1 :05pm – 2 :15pm **Lunch break with posters**
- Session 2: Biophysics of bacterial-host cell interactions**
- ▶ 2 :15pm – 2 :50pm **Anne-Marie KRACHLER**, McGovern Medical School, Texas, USA
 “Biophysics of bacterial adhesion and virulence”

- ▮ 2 :50pm – 3 :05pm Short talk
- ▮ 3 :05pm – 3 :40pm **Khalid SALAITA**, Emory University, Atlanta, Georgia, USA
“Biophysics, nanoscience, force sensors at the cell membranes”
- ▮ 3 :40pm – 3 :55pm Short talk
- ▮ 3 :55am – 4 :15pm **Coffee Break**
- ▮ 4 :15pm – 4 :50pm **Patricia BASSEREAU**, Curie Institute, Paris, France
“Force measurements and giant unilamellar vesicles to study pathogen-host cell interactions”
- ▮ 4 :50pm – 5 :05pm Short talk
- ▮ 5 :05pm – 5 :40pm **Guillaume DUMENIL**, Pasteur Institute, Paris, France
“Neisseria meningitidis vascular colonization”
- ▮ 5 :40pm – 5 :45pm **Conclusion**