

Cell Dynamics: Host-Pathogen Interface

Provisional programme

Sunday 8 May 2022

12:00 **Registration opens**

12:30 – 13:50 **Lunch**

14:00 – 14:15 **Sharon Ahmad** Journal of Cell Science, UK
Welcome

14:15 – 14:35 **Maria Mota** Institute of Molecular Medicine, Portugal
Plasmodium-hepatocyte interface: avoiding death in so many different ways

14:45 – 15:05 **Friedrich Frischknecht** University of Heidelberg, Germany
Environmental sensing by *Plasmodium* during transmission

15:15 – 15:25 **Short talk 1 selected from abstracts**

15:30 – 15:40 **Short talk 2 selected from abstracts**

15:45 – 16:25 **Coffee break**

16:30 – 16:50 **Matt Welch** University of California, Berkeley, USA
Mobilization of the actin cytoskeleton by microbial pathogens

17:00 – 17:20 **Serge Mostowy** London School of Hygiene & Tropical Medicine, UK
The septin cytoskeleton in antibacterial defense

17:30 – 17:40 **Short talk 3 selected from abstracts**

17:45 – 17:55 **Short talk 4 selected from abstracts**

18:00 – 19:00 **Free time**

19:00 – 20:00 **'Speed dating' event and pre-dinner drinks**

20:00 – 21:30 **Dinner**

Monday 9 May 2022

07:00 – 08:20 Breakfast

08:30 – 08:55 Careers at a Glance

09:00 – 09:20 Michael Way The Francis Crick Institute, UK
Reconstituting microtubule-based motility of *Vaccinia* virus *in vitro*

09:30 – 09:50 Mojgan Naghavi Northwestern University, USA
Mimicry of microtubule regulators by HIV-1 capsid

10:00 – 10:10 Short talk 5 selected from abstracts

10:15 – 10:30 Sponsored talk

10:30 – 11:10 Coffee break

11:15 – 11:35 Derek Walsh Northwestern University, USA
Why nuclei rotate during cytomegalovirus infection

11:45 – 12:05 Sonja Marie Best National Institutes of Health, USA
Flavivirus control of mitochondrial dynamics: how and why?

12:15 – 12:25 Short talk 6 selected from abstracts

12:30 – 13:50 Lunch

14:00 – 14:20 Eva Frickel University of Birmingham, UK
Host defence by human guanylate binding proteins in macrophages

14:30 – 14:50 Felix Randow MRC Laboratory of Molecular Biology, UK
How cells defend their cytosol against bacterial invasion

15:00 – 15:10 Short talk 7 selected from abstracts

15:15 – 15:25 Short talk 8 selected from abstracts

15:30 – 15:40 Group photo

15:45 – 16:10 Coffee break

16:15 – 16:35 Florence Niedergang Institut Cochin, France
How to build a phagosome: when new players are revealed by pathogens

16:45 – 17:05 Thierry Soldati University of Geneva, Switzerland
Fixing a leaky *Mycobacterium*-containing vacuole with ESCRT and autophagy

17:15 – 17:35 Maximiliano Gutierrez The Francis Crick Institute, UK
Mycobacterium tuberculosis infection of host cells in time and space

17:45 – 17:55 Short talk 9 selected from abstracts

18:00 – 18:25 Poster flash talks

18:30 – 19:55 Poster session 1 and pre-dinner drinks

20:00 – 21:30 Dinner

Tuesday 10 May 2022

07:00 – 08:20 Breakfast

08:30 – 08:50 Jae U. Jung University of Southern California, USA
Viral evasion of host programmed cell death

09:00 – 09:20 Michaela Gack University of Chicago, USA
Innate sensing of viral pathogens and viral immune escape

09:30 – 09:40 Short talk 10 selected from abstracts

09:45 – 10:00 Sponsored talk

10:00 – 10:40 Coffee break

10:45 – 11:05 Sara Cherry University of Pennsylvania, USA
Using functional genomics to explore virus-host interactions

11:15 – 11:35 Nihal Altan-Bonnet National Institutes of Health, USA
All aboard: vesicles, viruses and strength in numbers

11:45 – 11:55 Short talk 11 selected from abstracts

12:00 – 12:25 Careers at a Glance

12:30 – 13:30 Lunch

13:30 – 16:00 Free time

16:00 – 16:25 Coffee break

16:30 – 16:50 Dominique Soldati-Favre University of Geneva, Switzerland
Zoom in on the composition and function of the conoid in Apicomplexa

17:00 – 17:20 Isabelle Tardieu Institute for Advanced Biosciences, France
Exploring how *Toxoplasma* coordinates forces to access the host cell

17:30 – 17:40 Short talk 12 selected from abstracts

17:45 – 17:55 Short talk 13 selected from abstracts

18:00 – 18:25 Poster flash talks

18:30 – 19:55 Poster session 2 and pre-dinner drinks

20:00 – 21:30 Dinner

Wednesday 11 May 2022

07:00 – 08:25 Breakfast and check out

08:30 – 08:50 Craig Roy Yale School of Medicine, USA
Modulation of host cell functions by bacterial effector proteins

09:00 – 09:10 Short talk 14 selected from abstracts

09:15 – 09:35 Teresa Thurston Imperial College London
How Salmonella infection and a switch in kinase specificity drives macrophage polarisation

09:45 – 09:55 Short talk 15 selected from abstracts

10:00 – 10:10 Short talk 16 selected from abstracts

10:15 – 10:55 Coffee break

11:00 – 11:20 Robin May University of Birmingham, UK
Deciphering the dynamics of the host-pathogen interface during a fatal human fungal infection

11:30 – 11:40 Short talk 17 selected from abstracts

11:45 – 12:15 Pascale Cossart Institut Pasteur, France
Host-Listeria interactions in the era of microbiomes

12:25 – 12:30 Michael Way The Francis Crick Institute, UK
Closing remarks

12:30 – 13:30 Lunch and depart