

**EMBO Conference Series on
The Interface of Cell Biology and Cellular Microbiology**

Macromolecular Complexes in Microbial Pathogenesis, Membrane
Trafficking and Cell Signalling

23rd - 28th September | 2006 | S. Feliu de Guixols | Spain

Preliminary programme

Saturday 23 September

Late afternoon/
early evening Registration and check-in

20:00 Dinner

Sunday 24 September

Session 1: Macromolecular assemblies of the secretory pathway

Chair: Gisou van der Goot (University of Geneva, Switzerland)

08:45-09:00 Conference Opening

09:00-09:25 **Jennifer Lippincott-Schwartz** (NIH, Bethesda, USA)
Organization and function of the Golgi complex

09:25-09:35 Discussion

09:35-10:00 **Jean-Pierre Gorvel** (Centre of Immunology, Marseille, France)
Control of membrane traffic by Brucella

10:00-10:10 Discussion

10:10-10:40 Coffee break

10:40-11:05 **Brian Cooke** (Monash University, Melbourne, Australia)
Exported parasite proteins and malaria infection

11:05-11:15 Discussion

11:15-11:40 **Craig Roy** (Yale University, New Haven, USA)
Interactions of Legionella with the secretory pathway

11:40-11:50 Discussion

11:50-12:15 **Gillian Griffiths** (University of Oxford, UK)
The biogenesis of T cell secretory lysosomes

12:15-12:25 Discussion

12:30 Lunch

Session 2: Cytoskeletal assemblies

Chair: Michel Desjardins (University of Montreal, Canada)

15:00-15:25 **Michael Way** (Cancer Research UK, London, UK)
Vaccinia virus and the cytoskeleton

15:25-15:35 Discussion

15:35-16:00 **Keith Gull** (University of Oxford, UK)
Cytoskeletal dynamics within the trypanosomal flagellum in host-parasite interactions

16:00-16:10 Discussion

16:10-16:35 **Michael Sheetz** (Columbia University, New York, USA)
Force generation in motility of microbes and mammalian cells

16:35-16:45 Discussion

16:45-17:10 **Dominique Soldati** (University of Geneva, Switzerland)
Establishment of an intracellular life style: The Toxoplasma way

17:10-17:20 Discussion

17:20-17:50 Coffee break

Session 3: Viruses and their interactions with cells

Chair: Mark Marsh (Laboratory of Cell and Molecular Biology, London, UK)

17:50-18:15 **Joseph Pagano** (University of North Carolina, Chapel Hill, USA)
Exploitation of cell signalling pathways by tumour viruses

- 18:15-18:25 Discussion
- 18:25-19:05 **Keynote lecture:**
Ari Helenius (Swiss Federal Institute of Technology, Zürich, Switzerland)
Entry of viruses into cells
- 19:05-19:15 Discussion
- 19:30 Dinner
- 20:45 Poster Session 1

Monday 25 September

Session 4: The molecular machineries of endocytosis and phagocytosis I

Chair: Gillian Griffiths (University of Oxford, UK)

- 09:00-09:25 **Pietro De Camilli** (Yale University, New Haven, USA)
The molecular machinery of clathrin-mediated endocytosis
- 09:25-09:35 Discussion
- 09:35-10:00 **Marino Zerial** (Max-Planck Institute for Molecular Biology and Genetics, Dresden, Germany)
Rab GTPases and their effectors in endocytosis and phagocytosis
- 10:00-10:10 Discussion
- 10:10-10:35 **Pete Cullen** (University of Bristol, UK)
Phosphoinositides in endosomal membrane traffic and pathogen entry
- 10:35-10:45 Discussion
- 10:45-11:15 Coffee break
- 11:15-11:40 **Jean Gruenberg** (University of Geneva, Switzerland)
Role of late-endosomal lipids in endocytic trafficking and viral entry
- 11:40-11:50 Discussion
- 11:50-12:15 **Sergio Grinstein** (Hospital for Sick Children, Toronto, Canada)
Molecular mechanisms of phagocytosis

12:15-12:25 Discussion

12:30 Lunch

Session 5: Molecular mechanisms of innate immunity

Chair: David Holden (Imperial College, London, UK)

16:00-16:25 **Philippe Sansonetti** (Institut Pasteur, Paris, France)
Epithelial cell transcriptome carving by bacteria

16:25-16:35 Discussion

16:35-17:00 **Tamotsu Yoshimori** (University of Mishima, Japan)
Autophagy as a mechanism of innate immunity

17:00-17:10 Discussion

17:10-17:35 **Caetano Reis e Sousa** (Cancer Research UK, London, UK)
Toll-like receptors in innate immunity

17:35-17:45 Discussion

17:45-18:15 Coffee break

18:15-18:40 **Terje Espevik** (University of Trondheim, Norway)
Intracellular trafficking and signalling of Toll-like receptors

18:40-18:50 Discussion

18:50-19:15 **Arturo Zychlinsky** (Max-Planck Institute for Infection Biology, Berlin, Germany)
Neutrophils in microbial killing

19:15-19:25 Discussion

19:30 Dinner

20:45 Poster Session 2

Tuesday 26 September

Session 6: Protein injection machines

Chair: Philippe Sansonetti (Institut Pasteur, Paris, France)

- 09:00-09:25 **Guy Cornelis** (Biozentrum, Basel, Switzerland)
Structure and assembly of the Yersinia Ysc injectisome
- 09:25-09:35 Discussion
- 09:35-10:00 **David Holden** (Imperial College, London, UK)
Regulation of the Salmonella type III secretion system
- 10:00-10:10 Discussion
- 10:10-10:25 **Short oral presentation** (selected from abstracts)
- 10:25-10:35 Discussion
- 10:35-11:05 Coffee break
- 11:05-11:30 **Kirsten Sandvig** (The Norwegian Radium Hospital, Oslo, Norway)
Retrograde traffic and membrane translocation of protein toxins
- 11:30-11:40 Discussion
- 11:40-12:05 **Gisou van der Goot** (University of Geneva, Switzerland)
Internalization of anthrax toxin
- 12:05-12:15 Discussion
- 12:30 Lunch
- 14:00 Half-day excursion
- 19:30 Dinner
- 20:45 Poster session 3

Wednesday 27 September

Session 7: Poster talks

Chair: Kirsten Sandvig (The Norwegian Radium Hospital, Oslo, Norway)

09:00-09:15 Poster talk 1
09:15-09:20 Discussion
09:20-09:35 Poster talk 2
09:35-09:40 Discussion
09:40-09:55 Poster talk 3
09:55-10:00 Discussion
10:00-10:15 Poster talk 4
10:15-10:20 Discussion
10:20-10:50 Coffee break
10:50-11:05 Poster talk 5
11:05-11:10 Discussion
11:10-11:25 Poster talk 6
11:25-11:30 Discussion
11:30-12:30 Special discussion about the future of the conference series
12:30 Lunch

Session 8: The molecular machineries of endocytosis and phagocytosis II

Chair: Marino Zerial (Max-Planck Institute for Molecular Cell Biology and Genetics, Dresden, Germany)

16:00-16:25 **Graca Raposo** (Institut Curie, Paris, France)
Prion infection through endosomes and exosomes
16:25-16:35 Discussion
16:35-17:00 **Mark Marsh** (Laboratory of Cell and Molecular Biology, London, UK)
HIV and late-endosomal compartments
17:00-17:10 Discussion

- 17:10-17:25 **Short oral presentation** (to be selected from abstracts)
- 17:25-17:35 Discussion
- 17:35-18:05 Coffee break
- 18:05-18:30 **Florence Niedergang** (Institut Cochin, Paris, France)
Early cytoskeletal and membrane reorganisations in phagocytosing cells
- 18:30-18:40 Discussion
- 18:40-19:05 **Michel Desjardins** (University of Montreal, Canada)
Host-pathogen interaction during Leishmania infection
- 19:05-19:15 Discussion
- 20:00 Conference Dinner

Thursday 28 September

Breakfast and Departure