

## Host – Microbes Interactions

Island of Spetses (Greece), September 1-9, 2010

Organizers

**Pascale Cossart** (Institut Pasteur, France)  
**Roberto Kolter** (Harvard Medical School, USA)

### Preliminary Programme

#### Wednesday 1 September: arrival and welcome reception

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Welcome and Introduction : Pascale Cossart and Roberto Kolter

#### Thursday 2 September

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Welcome and Introduction : Pascale Cossart and Roberto Kolter

*Chairperson Pascale Cossart*

##### General Lectures

Morning **1 . Philippe Sansonetti** (Institut Pasteur, France)  
What makes a pathogen, what makes a commensal, at mucosals surfaces  
**2 . Roberto Kolter** (Harvard Medical School, USA)  
Exploring microbial diversity

*Chairperson Philippe Sansonetti*

Afternoon **Methods**  
**1. Joel Doré** (INRA, France)  
Metagenomics  
**2. David Holden** (Imperial College, England)  
Methods to study bacterial virulence

#### Poster Session I

#### Friday 3 September

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*Chairperson Roberto Kolter*

Morning **New concepts in bacterial regulation**  
**1. Inigo Lasa** (Instituto de Agrobiotecnología, Spain)  
GGDEF proteins and c-di-GMP signal transduction system  
**2. Pascale Cossart** (Institut Pasteur, France)  
RNA-mediated regulation

*Chairperson David Holden*

Afternoon **Contribution of Genomics and post genomics to our understanding of pathogenesis**  
**1. Carmen Buchrieser** (Institut Pasteur, France)  
Legionella  
**2. Christophe Dehio** (Biozentrum, Switzerland)  
Bartonella : Role of type IV secretion systems in host adaptation  
**3. Philippe Sansonetti** (Institut Pasteur, France)  
Shigella effectors at work

## Saturday 4 September

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- Chairperson Carmen Buchrieser*
- Morning **Bacterial communities/ Biofilms/ differentiation**
- 1. Inigo Lasa** (Instituto de Agrobiotecnología, Spain)  
Biofilm development in *Staphylococcus aureus*
  - 2. Bonnie Bassler** (Princeton, USA)  
How Bacteria Talk To Each Other
  - 3. Julian Davies** (University of British Columbia, Canada )  
**The EMBO Lecture** : Antibiotics, Resistance, and the Universe of Small Molecules

- Chairperson Julian Davies*
- Afternoon
- 1. Bruno Lemaître** (EPFL, Switzerland)  
*Drosophila*, insect vectors and disease
  - 2. Maxime Schwartz** (Institut Pasteur, France)  
**EMBO Science and Society Lecture** : Microbes or men? Who will win?

## Poster session II

## Sunday 5 September

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Free day for discussions and for excursion to Mycenae, Epidavros, Nauplion or Hydra

## Monday 6 September

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- Chairperson Christophe Dehio*
- Morning **Cell Biology of infections**
- 1. Gisou Van der Goot** (EPFL, Switzerland)  
Pore-forming toxins
  - 2. David Holden** (Imperial College, England)  
Intracellular activities of *Salmonella*
  - 3. Jean-Pierre Gorvel** (Centre d'Immunologie, France)  
*Brucella* pathogenesis

- Chairperson Bonnie Bassler*
- Afternoon **Host response to infections**
- 1. Christophe Dehio** (Biozentrum, Switzerland)  
Cellular response to infection : autophagy and apoptosis
  - 2. Pascale Cossart** (Institut Pasteur, France)  
Post translational modifications during infections

## Poster Session III

## Tuesday 7 September

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- Chairperson Gisou Van der goot*
- Morning **Bacterial communities**
- 1. Joel Doré** (INRA, France)  
The intestinal flora : European and other projects
  - 2. Bonnie Bassler** (Princeton, USA)  
Manipulating Quorum Sensing to Control Bacterial Pathogenicity

**3. Carmen Buchrieser** (Institut Pasteur, France)

Tutorial/discussion on next generation sequencing, genomic, metagenomic and post genomics

*Chairperson : Javier Pizarro-Cerda*

Afternoon

**1. Bruno Lemaître** (EPFL, Switzerland)

How Drosophila has helped understanding innate immunity

**2. Gunnar Lindhal** (Lund University, Sweden)

Bacterial evasion of host immunity

**3. Maria Rescigno** (European Institute of Oncology , Italy)

**EMBO Young Investigator Lecture** : Dendritic cells in bacterial handling in the gut

## Wednesday 8 September

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*Chairperson : Inigo Lasa*

Morning

**1. Gisou Van der Goot** (EPFL, Switzerland)

Entry pathway of AB toxins, with a special emphasis on anthrax toxin

**2. Roberto Kolter** (Harvard Medical School, USA)

Ecology of Polymicrobial Infections

**3. Javier Pizarro-Cerda** (Institut Pasteur, France)

Tutorial/discussion on imaging and various microscopy techniques

*Chairperson : Gunnar Lindhal*

Afternoon

Short talks selected from the posters

Poster prizes

Farewell dinner

## Thursday 9 September

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**Departure**