

Monday, June 26th

16:00 | **Conference Registration**

Welcome and Introduction of Keynote Speaker

Duclaux Lecture Theater
26/06/2017 / 17:15-19:30

17:15 | **Welcome addresses**

Michel-Robert Popoff
Institut Pasteur, France

17:25 | **Introduction of keynote speakers**

Carmen Buchrieser
Institut Pasteur, France

1 Keynote Addresses

17:30 | Peter Sebo
Czech Academy of Sciences Prague, Czech Republic

2 *Listeria monocytogenes* and its multiple strategies for efficient infection

18:30 | Pascale Cossart
Institut Pasteur, France

Welcome Reception at Institut Pasteur

Duclaux Lecture Theater
26/06/2017 / 19:30-22:00

Tuesday, June 27th

Secretion, structure, transport, receptor

Duclaux Lecture Theater
27/06/2017 / 09:00-10:30

Chair(s) : Vassilis Koronakis

Gilles Prevost

- 3 **Type VI secretion system in *Francisella tularensis***
09:00 Thomas Henry
Centre International de Recherche en Infectiologie (CIRI), Lyon, France
- 4 **The type II secretion of *Photobacterium damsela* piscicida mediates extracellular release of the apoptogenic toxin AIP56** **Selected Poster**
09:30 Ana Do Vale
IBMC-Instituto de Biologia Molecular e Celular, Porto, Portugal
- 5 ***Pseudomonas aeruginosa* pore-forming toxin Exolysin and Type IV pili cooperate in host cell lysis**
09:45 Ina Attrée-Delic
CEA, France
- 6 **A Quantitative Analysis of the HlyA Type 1 Secretion System of *E. coli*** **Selected Poster**
10:15 Lutz Schmitt
Heinrich Heine University Düsseldorf, Düsseldorf, Germany

Coffee break

Duclaux Lecture Theater
27/06/2017 / 10:30-11:00

- 7 **"The power of cryo-EM: Structural Insights into Tc toxin action"**
11:00 Stefan Raunser
Max Plank Institute, Germany
- 8 **Secretion, folding and functions of the CyaA RTX toxin are tightly regulated by the diverse array of physiological calcium concentrations** **Selected Poster**
11:30 Alexandre Chenal
Institut Pasteur, Paris, France
- 9 **Genome-wide CRISPR screen defines the receptors for *C. difficile* toxin B**
11:45 Min Dong
Boston Children's Hospital, United States
- 10 **Examined: The potential of electrophysiological technologies for toxicity screening** **Selected Poster**
12:15 Conrad Weichbrodt
Nanon Technologies GmbH, München, Germany

LUNCH + POSTER SESSION I

Espace Congrès
27/06/2017 / 12:30-16:00



Bacterial toxins Pathogenesis, Molecular mode of Action

Duclaux Lecture Theater
27/06/2017 / 16:00-18:45

Chair(s) : Nunos Dos Santos

Panagiotis Papatheodorou

- 11
16:00 **Legionella type IV substrates subverting vesicle trafficking and cell migration**
Hubert Hilbi
University of Zurich, Switzerland
- 12
16:30 **Mechanisms of bacterial-triggered suppression of Argonaute activity and their relevance in pathogenicity** Selected Poster
Lionel Navarro
IBENS, Paris, France
- 13
16:45 **Structure and regulation of FIC proteins**
Jacqueline Cherfils
ENS Cachan, France
- 14
17:15 **Enteric bacterial infection: when virulence, metabolism and microbiota cross**
Gad Frankel
Imperial College London, United Kingdom
- 15
17:45 **Strategies of microcins and other bacteriocins in microbial competitions**
S. Rebuffat
Museum National d'Histoire Naturelle, France
- 16
18:15 **From toxins to immunology**
Jean-Marc Cavaillon
Institut Pasteur, France

Wine and cheese

Espace Congrès
27/06/2017 / 18:45-21:00

Wednesday, June 28th



Novel, emerging & revisited toxins

Duclaux Lecture Theater
28/06/2017 / 09:00-11:15

Chair(s) : Cesare Montecucco
Joseph Barbieri

- 17
09:00 ***Yersinia* toxins that resemble the structure of large clostridial glucosylating toxins**
Klaus Aktories
University of Freiburg, Germany
- 18
09:30 **Polymorphic toxins in interbacterial competition** Selected Poster
Anne Jamet
INSERM, Paris, France
- 19
09:45 **The *Helicobacter cinaedi* antigen CAIP participates in atherosclerotic inflammation by promoting the differentiation of macrophages in foam cells**
Marina De Bernard
University of Padova, Italy
- 20
10:15 **Listeriolysin S: a bacteriocin from epidemic *Listeria* strains that modifies the gut microbiota during infection**
Javier Pizarro-Cerda
Institut Pasteur, France
- 21
10:45 **Metabolism-dependent regulation of toxin gene synthesis in *Clostridium difficile***
Bruno Dupuy
Institut Pasteur, France

Coffee break

Duclaux Lecture Theater
28/06/2017 / 11:15-11:45

- 22
11:45 **Actin-activated nucleotidyl cyclase (AA-NC) toxins from *Pseudomonas aeruginosa* and *Vibrio nigrispulchritudo***
Undine Mechold
Institut Pasteur, France

23 | **Inhibition of WAVE Regulatory Complex activation by a bacterial
12:15 | virulence effector counteracts pathogen phagocytosis**

Selected Poster

Daniel Humphreys

University of Sheffield, UK, Sheffield, United Kingdom

24 | **Prediction of novel toxins through genomic data mining**

12:30

Andrew Doxey

University of Waterloo, Canada

LUNCH

Espace Congrès
28/06/2017 / 13:00-14:00

FREE AFTERNOON Social Event

Grande Galerie de l'Évolution MNHN
28/06/2017 / 15:00-20:00

**Lecture on Biodiversity and Evolution
by Bruno David**

Auditorium MNHN
28/06/2017 / 17:00-18:00

Cocktail

Restaurant "La Baleine"
28/06/2017 / 19:00-20:00

Thursday, June 29th

IV Bacterial neurotoxins

Duclaux Lecture Theater
29/06/2017 / 08:45-10:30

Chair(s) : Andreas Rummel
Jordi Molgo

- 25**
08:45 **N-linked glycosylation of SV2 sweetens the uptake of botulinum neurotoxin A and HA**
Rongsheng Jin
University of California Irvine, Irvine, United States
- 26**
09:15 **A *W. oryzae* botulinum-like toxin cleaves VAMP within the juxtamembrane domain**
Cesare Montecucco
Department of Biomedical sciences, university of Padova, Padova, Italy
- 27**
09:45 **Properties of novel botulinum neurotoxin**
Andreas Rummel
Medizinische Hochschule Hannover, Germany
- 28**
10:15 **The structure of the tetanus toxin reveals pH-mediated domain dynamics** Selected Poster
Geoffrey Masuyer
Stockholm University, Stockholm, Sweden

Coffee break

Duclaux Lecture Theater
29/06/2017 / 10:30-11:00

- 29**
11:00 **Regulation of botulinum neurotoxin synthesis at single-cell level**
Miia Lindstrom
University of Helsinki, Finland
- 30**
11:30 **Probing presynaptic trafficking and retrograde transport with neurotoxins**
Frédéric Meunier
Queensland Brain Institute, St Lucia, Brisbane, Australia
- 31**
12:00 **Dissemination of botulinum neurotoxin to target neurons in the intestinal mucosa**
Chloé Connan
IBENS, Paris, France

LUNCH + POSTER SESSION II

Espace Congrès
29/06/2017 / 12:30-14:30

V

Toxins and cancer

Duclaux Lecture Theater
29/06/2017 / 14:30-16:00

Chair(s) : Daniel Ladant

Emmanuel Lemichez

- 32 **MARTX toxin effector mechanism**
14:30 Karla Satchell
Northwestern University, United States
- 33 **Interplay between CNF1 toxin from *E. coli* and the ubiquitin-mediated regulation of pro-oncogenic Rac1 small GTPase**
15:00 Emmanuel Lemichez
Centre Méditerranéen de Médecine Moléculaire (C3M), Nice, France
- 34 **Targeting of the host cell nucleus by the enteropathogen *Shigella flexneri*: new insights**
15:30 Laurence Arbibe
Institut Necker Enfants Malades / INSERM, France

Coffee break

Duclaux Lecture Theater
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- 35 **Role of colibactin in colon carcinogenesis**
16:30 Amina Iftekhhar
Max Planck Institute for Infection Biology, Berlin, Germany
- 36 **Staphylococcal enterotoxins/cancer**
16:45 Niels Odum
Copenhagen University, Denmark
- 37 **Genotoxins and cancer**
17:15 Jean-Philippe Nougayrede
Institut de Recherche en Santé Digestive, Toulouse, France

Musée d'Orsay Visit + Congress Dinner

29/06/2017 / 18:00-20:00



Friday, June 30th

VI

Pathogenicity of toxins: cell biology, uptake, signaling and immunity

Duclaux Lecture Theater
30/06/2017 / 09:00-10:30

Chair(s) : Carmen Buchrieser
Peter Sebo

- 38** | **Pyroptosis: from innate immunity to cancer**
09:00 | Feng Shao
Center for Cancer Medicine, China
- 39** | **Small molecule inhibitors of Shiga toxin trafficking**
09:30 | Ludger Johannes
Institut Curie, France
- 40** | ***Legionella pneumophila* secretes effector proteins to induce epigenetic changes during infection**
10:00 | Monica Rolando
Institut Pasteur, France

Coffee break

Duclaux Lecture Theater
30/06/2017 / 10:30-11:00

- 41** | **Lipid Dynamics and the Anthrax Toxin pH-Dependent Intracellular Journey** Selected Poster
11:00 | Ekaterina Nestorovich
The Catholic University of America, Washington, United States
- 42** | **ADP-ribosylating toxins recruit the host cell chaperone Hsp70 for their entry into mammalian cells**
11:15 | Holger Barth
University of Ulm, Germany
- 43** | **Introduction of Keynote Speaker**
11:45 | Daniel Ladant
Institut Pasteur, France
- 44** | **Keynote Address**
11:50 | Jorge Galan
Yale University, United States

**Closing Remarks and Poster awards by
Joseph Barbieri and Jean-Philippe Nougayrede**

Duclaux Lecture Theater
30/06/2017 / 12:45-13:15

