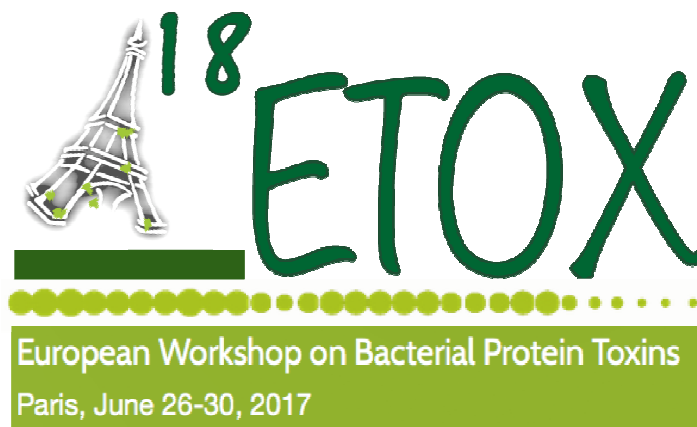


ETOX18

European Workshop on Bacterial Protein Toxins

June 26-30, 2017
Institut Pasteur, Paris
<http://www.etox18.org/>



PROGRAM AGENDA

MONDAY, JUNE 26	
16:00 – 18:00	Conference Registration
Welcome and Introduction of Keynote Speaker	
17:15 – 17:25	Welcome addresses Michel Popoff, Institut Pasteur, France
17:25 – 17:30	Introduction of keynote speakers by Carmen Buchrieser
17:30 – 18:15	Keynote Addresses Peter Sebo (Czech Academy of Sciences, Praha): Bacterial protein toxins: Fooling host defences and serving the researchers
18:30 – 19:15	Pascale Cossart (Institut Pasteur, France) : <i>Listeria monocytogenes</i> and its multiple strategies for efficient infection
19:30	Welcome Reception at Institut Pasteur

TUESDAY, JUNE 27

08:30 – 13:00 Conference Registration

**9:00 - 12:30 GENERAL SESSION 1: Secretion, structure, transport, receptor
Chair: V. KORONAKIS, G. PREVOST**

9:00 – 9:25 **Thomas Henry** (INSERM, France): Type VI secretion system in *Francisella tularensis*

9:30 – 9:40 **Selected POSTER#78: Ana Do Vale** (Porto, Portugal): The typeII secretion of *Photobacterium damsela piscida* mediates extracellular release of apoptogenic toxin AIP56

9:45 – 10:10 **Ina Attrée-Delic** (CEA, France): *Pseudomonas aeruginosa* toxin Exolysin and Type IV pili cooperate in host cell lysis

10:15 – 10:25 **Selected POSTER#7: Lutz Schmitt** (Düsseldorf, Germany): A quantitative analysis of HlyA type I secretion system of *E. coli*

10:30 – 11:00 Coffee Break

11:00 – 11:25 **Stefan Raunser** (Max Plank Institute, Dortmund, Germany): Structural insights into Tc toxin action

11:30 – 11:40 **Selected POSTER#5 Alexandre Chenal** (Institut Pasteur, Paris): Secretion, folding and functions of the Cya RTX toxin are tightly regulated by the diverse arrays of physiological calcium concentrations

11:45 – 12:10 **Min Dong** (Boston Children's Hospital, USA): TcdB receptor

12:15 – 12:25 **Conrad Weichbrodt** (Nanion Technologies)

12:30 – 16:00 LUNCH + POSTER SESSION I**16:00 – 18:45 GENERAL SESSION 2: Bacterial toxins Pathogenesis, Molecular mode of Action
Chair: N. DOS SANTOS, P. PAPTAEODOROU**

16:00 – 16:25 **Hubert Hilbi** (University of Zurich, Switzerland): *Legionella* effectors subverting vesicle trafficking and cell migration

16:30 – 16:40 **Selected POSTER#38: Lionel Navarro** (IBENS, France): Mechanisms of bacterial-triggered suppression of Argonaute activity and their relevance in pathogenicity

16:45 – 17:10 **Jacqueline Cherfils** (ENS Cachan, France): Diversion of small GTPases by FIC toxins

17:15 – 17:40 **Gad Frankel** (Imperial College, London, UK): Enteric bacterial infection: when virulence, metabolism and microbiota cross

17:45 – 18:10 **Sylvie Rebuffat** (Museum National d'Histoire Naturelle, Paris): Strategies of microcins and other bacteriocins in microbial competitions

18:15 – 18:40 **Jean Marc Cavillon** (Institut Pasteur, Paris) From toxins to

immunology

18:45

Wine and cheese

WEDNESDAY, JUNE 28

9:00 - 13:00

GENERAL SESSION 3: Novel, emerging & revisited toxins

Chair: C. MONTECUCCO, J. BARBIERI

9:00 - 9:25

Klaus Aktories (University of Freiburg, Germany): Novel emerging toxins

9:30 - 9:40

Selected POSTER#25: Anne Jamet (INSERM, France): Polymorphic toxins in interbacterial competition.

9:45 - 10:10

Marina De Bernard (University of Padova, Italy): *Helicobacter cinaedi* and atherosclerosis: the role of the protein CAIP

10:15 - 10:40

Javier Pizarro-Cerda (Institut Pasteur, France): Listeriolysin O and S

10:45 - 11:10

Bruno Dupuy (Institut Pasteur, Paris): Metabolism-dependent regulation of toxin gene synthesis in *Clostridium difficile*

11:15 - 11:45

Coffee Break

11:45 - 12:10

Undine Mechold (Institut Pasteur, Paris): ExoY, a nucleotidyl cyclase toxin from *Pseudomonas aeruginosa*

12:15 - 12:30

Selected POSTER#55: Daniel Humphreys (University of Sheffield, UK): Inhibition of WAVE regulatory complex activation by a bacterial virulence effector counteracts pathogen phagocytosis.

12:30 - 12:55

Andrew Doxey (University of Waterloo, Canada): Prediction of novel toxins through genomic data mining

13:00 - 20:00

LUNCH + FREE AFTERNOON Social Event

Visit of the "Museum National d'Histoire Naturelle" (Grande Galerie, Garden)

17:00 - 18:00

Lecture on Biodiversity and Evolution

Bruno David (MNHN): In the shadow of ancient crises

19:00 - 20:00

Cocktail

THURSDAY, JUNE 29

8:45 - 12:30

GENERAL SESSION 4: Bacterial neurotoxins

Chair: A. RUMMEL, J. MOLGO

8:45 - 9:10

Rongsheng Jin (University of California, USA): N-linked glycosylation of SV2 sweetens the uptake of botulinum neurotoxin A

9:15 - 9:40

Cesare Montecucco (University of Padova, Italy): Novel non clostridium neurotoxin

9:45 – 10:10	Andreas Rummel (Medizinische Hochschule Hannover, Germany): Properties of novel botulinum neurotoxin subtypes
10:15 – 10:25	Selected POSTER#73: Geoffrey Masuyer (Stockholm University, Sweden): The structure of the tetanus toxin reveals pH-mediated domain dynamics.
10:30 – 11:00	Coffee Break
11:00 – 11:25	Miia Lindstrom (University of Helsinki, Finland): Regulation of botulinum neurotoxin synthesis at single cell level
11:30 – 11:55	Frédéric Meunier (University of Queensland, Australia): Probing presynaptic trafficking and retrograde transport with neurotoxins
12:00 – 12:25	Chloé Connan (Institut Pasteur Paris): Dissemination of botulinum neurotoxin to target neurons in the intestinal mucosa
12:30 – 14:30	LUNCH+ POSTER SESSION II
14:30 – 17:45	GENERAL SESSION 5: Toxins and cancer Chair: D. LADANT , E. LEMICHEZ
14:30 – 14:55	Karla Satchell (Northwestern University, USA): MARTX toxin effector delivery and function
15:00 – 15:25	Emmanuel Lemichez (INSERM, France) Interplay between CNF1 toxin from <i>E. coli</i> and the ubiquitin-mediated regulation of oncogenic Rac1 small GTPase.
15:30 – 15:55	Laurence Arbibe (INSERM, France): Genetic reprogramming of host cells by bacterial factors
16:00 – 16:30	Coffee break
16:30 – 16:40	Selected POSTER#10: Amina Iftekhar (Max Planck Institute, Germany): Role of colibactin in colon carcinogenesis
16:45 – 17:10	Niels Odum (Copenhagen University, Denmark): Staphylococcal enterotoxins/cancer
17:15 – 17:40	Eric Oswald (INSERM, France): Genotoxins and cancer
18:00	Musée d'Orsay Visit
20:00	Congress Dinner

FRIDAY, JUNE 30

9:00 – 13:15 **GENERAL SESSION 6: Pathogenicity of toxins: cell biology, uptake, signaling and immunity**
Chair: C. BUCHRIESER, P. SEBO

9:00 – 9:25 **Feng Shao** (Center for Cancer Medicine, China): Cytosolic sensing of bacteria and bacterial virulence by the inflammasomes

9:30 – 9:55 **Ludger Johannes** (Institut Curie, France): Glycosphingolipids as bricks for the construction of endocytic pits by bacterial and cellular lectins

10:00 – 10:25 **Monica Rolando** (Institut Pasteur, Paris): *Legionella pneumophila* secretes effector proteins to induce epigenetic changes during infection

10:30 – 11:00 **Coffee break**

11:00 – 11:10 **Selected POSTER#87: Ekaterina Nestorovich** (Washington, USA): Lipid dynamics and the anthrax toxin pH-dependent intracellular journey

11:15 – 11:40 **Holger Barth** (University of Ulm, Germany): ADP-ribosylating toxins recruit the host cell chaperone Hsp70 for their entry into mammalian cells

11:45 – 11:50 **Introduction of Keynote Speaker by Daniel Ladant**

11:50 – 12:35 **Keynote Address**
Jorge Galàn (Yale School of Medicine, USA): *Salmonella* toxins

12:45 – 13:15 **Closing Remarks and Poster awards by Joseph Barbieri and Eric Oswald**