



24th Meeting of the French Society of Toxinology (SFET)
“Toxins: Biodiversity, Environment and Evolution”
 December 7th-8th, 2017, Institut Pasteur, Paris, France



Thursday 7th December

9h00 – 9h10: Welcome. Evelyne BENOIT (SFET President)

9h10 – 12h45

Session 1 | Toxins and Evolution

Chairpersons: Pascale MARCHOT & Nicolas PUILLANDRE

9h10 – 9h40: Alejandra BRAVO (Instituto de Biotecnología, Universidad Nacional Autónoma de México, Morelos, Mexico)
Biodiversity of Cry toxins produced by Bacillus thuringiensis and evolution of resistance to these toxins in different insect pests

9h40 – 10h10: Wolfgang WÜSTER (School of Biological Sciences, Bangor University, Environment Centre Wales, Bangor, UK)
Why is snake venom composition so variable?

10h10 – 10h40: Coffee break & Posters

10h40 – 11h00: Stephan Holger DRUKEWITZ (Institute for Biology, University of Leipzig, Germany)
A dipteran's sucker punch: diverse venom composition of the robber flies

11h00 – 11h30: Denis SERVENT (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)
Ancestral protein resurrection and engineering opportunities of the mamba aminergic toxins

11h30 – 12h10: Posters as 3-min highlights (limited to 12 posters)

12h10 – 12h15: Group photo

12h15 – 14h30: Lunch & Posters

14h30 – 17h20

Session 2 | Toxins and Biodiversity

Chairpersons: Aude VIOLETTE & Sébastien DUTERTRE

14h30 – 15h00: Sophie HELAINE (MRC Centre for Molecular Bacteriology and Infection, Imperial College, London, UK)
Salmonella forms intracellular persisters with TacT

15h00 – 15h30: Björn VON REUMONT (Department of Life Sciences, the Natural History Museum, London, UK /
 Institute for Biology, University of Leipzig, Germany)
Venomics of remipede crustaceans: revealing biological and methodological aspects of their toxin cocktails

15h30 – 16h00: Nicolas PUILLANDRE (Institut de Systématique – Évolution – Biodiversité, MNHN, Paris, France)
The Conoidea and their toxins: evolution of a hyper-diverse group

16h00 – 16h20: Julien GIRIBALDI (Institut des Biomolécules Max Mousseron, Université de Montpellier - CNRS,
 Montpellier, France)
Synthesis, structure and biological activity of C-IA and C-IB, two new alpha-conotoxins from Conus Catus

16h20 – 16h40: Maria Vittoria MODICA (Department of Integrative Marine Ecology, Napoli, Italy)
ShK-like toxins from the vampire snail Colubraria reticulata

16h40 – 17h00: Kristina SEPCIC (Department of Biology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia)
Aegerolysin proteins: interactions with lipid membranes and potential applications

17h00 – 17h20: Rosanna MARY (Institut des Biomolécules Max Mousseron, Université de Montpellier - CNRS,
 Montpellier, France)
Discovery, synthesis and characterization of PmuTx1, a new spider toxin that blocks T-type calcium channel Ca_v3.2

17h30 – 19h00: General Assembly of the SFET (SFET members)

9h00 – 9h30: Lu LIU (DuPont Pioneer, Hayward, CA, USA)

Recent progress on non-Bt insecticidal protein discovery and their potential application

9h30 – 10h00: Philipp HESS (Laboratoire Phycotoxines, Ifremer, Nantes, France)

Biogeography and diversity of micro-algal toxins and metabolites

10h00 – 10h30: Coffee break & Posters

10h30 – 11h00: Yehu MORAN (Department of Ecology, Evolution and Behavior, Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem, Israel)

Dynamics of venom composition across a complex life cycle are revealed by the study of a model sea anemone

11h00 – 11h20: Rabia MAZMOUZ (Laboratoire Interdisciplinaire des Energies de Demain, Université Denis Diderot, Paris, France)

Cyanotoxins: toxins from prokaryotic blue-green algae with immense impact

11h20 – 12h00: Ceremony for best poster and other awards

12h00 – 15h00: Lunch & Posters

15h00 – 15h20: Alexis VOEGELE (Institut Pasteur, Unité de Biochimie des Interactions Macromoléculaires, Département de Biologie Structurale et Chimie, Paris, France)

Membrane-active properties of arginine residues of an amphitropic peptide from the CyaA toxin translocation domain

15h20 – 15h40: Steve REYNAUD (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)

Animal toxins as innovative ligands of melanocortin 4 receptor

15h40 – 16h00: Alexander BELYY (Institut Pasteur, Unité de Biochimie des Interactions Macromoléculaires, Département de Biologie Structurale et Chimie, Paris, France)

Activation of ExoY toxin of Pseudomonas aeruginosa and ExoY-like-toxin from Vibrio nigripulchritudo

16h00 – 16h20: Romulo ARAOZ (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)

NeuroTorp: fast and early warning device for the detection of aquatic neurotoxins

16h20 – 16h30: Closure. Evelyne BENOIT (SFET President)