



23rd Meeting of the French Society of Toxinology (SFET)
“Toxins: Immunity, Inflammation and Pain”
 December 5th-6th, 2016, Institut Pasteur, Paris, France



Monday 5th December

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

9h10 – 12h45

Session 1 | Toxins and Immunity

Chairmen: Michel DE WAARD & Lhousseine TOUQUI

9h10 – 9h40: Lhousseine TOUQUI (Mucoviscidose et Bronchopathies Chroniques, Institut Pasteur, Paris, France)
Immunomodulatory roles of bacterial toxins: impacts on the innate pulmonary defense of the host

9h40 – 10h10: Christine BEETON (Baylor College of Medicine, Houston, USA)
Targeting potassium channels in rheumatoid arthritis

10h10 – 10h30: Nassim MAHTAL (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)
High-Throughput Screening of Rac1 enhancers as stimulators of innate and acquired immunity

10h30 – 10h50: Fatima CHGOURY (Laboratoire des Venins et Toxines, Institut Pasteur du Maroc, Casablanca, Maroc)
Paraspecific effect of Androctonus australis hector NbF12-10 nanobody against Moroccan scorpion venom

10h50 – 10h55: Conrad WEICHBRODT (Nanion Technologies GmbH, München, Germany)
Next level toxicity screening: from single channel to overall cell behavior

10h55 – 11h25: Coffee break & Posters

11h25 – 11h55: Philipp HENNEKE (Center for Chronic Immunodeficiency, Freiburg, Germany)
Macrophage subset development and environmental imprinting determine immunity in staphylococcal soft tissue infection

11h55 – 12h25: Philippe BULET (Plateforme BioPark d'Archamps, Archamps Technopole, Saint Julien en Genevois, France)
Venom toxins and antimicrobial peptides: evidence that venom toxins are closely related to defensins of innate immunity

12h25 – 12h45: Michel DE WAARD (Institut du Thorax, Nantes, France)
Efficient neutralization of deadly toxins in vivo by DNA oligonucleotides

12h45 – 14h30: Lunch & Posters

14h30 – 17h20

Session 2 | Toxins and Pain

Chairmen: Denis SERVENT & Eric LINGUEGLIA

14h30 – 15h00: Laurence BOURGEOIS RAMBUR (Centre de Psychiatrie & Neurosciences, Paris, France)
Functional architecture of pain pathways

15h00 – 15h30: Estelle MARION (ATOMyca, Angers, France)
Mycolactone: the amazing analgesic mycobacterial toxin

15h30 – 15h50: Tânia C. GONÇALVES (Sanofi R&D, Vitry-sur-Seine, France)
D peptide, a promising toxin as potential antinociceptive agent targeting the Na_v1.7 subtype of voltage-gated sodium channels

15h50 – 16h20: Ren LAI (Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, China)
Centipede venom toxins acting on ion channels

16h20 – 16h50: Eric LINGUEGLIA (Institut de Pharmacologie Moléculaire et Cellulaire, Valbonne, France)
Acid-Sensing Ion Channels in the pain pathway or how animal toxins can help to understand pain

16h50 – 17h20: Mikhail KALINICHEV (Ipsen Innovation, Les Ulis, France)
Exploiting the biology of botulinum neurotoxins for pain

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

9h00 – 9h30: Jean-Marc CAVAILLON (Unité Cytokines et Inflammation, Institut Pasteur, Paris, France)

Exotoxins and endotoxins: inducers of inflammatory cytokines

9h30 – 10h00: Michel R. POPOFF (Unité des Bactéries anaérobies et Toxines, Institut Pasteur, Paris, France)

Toxins of Clostridium sordellii and Clostridium difficile: the proinflammatory versus cytoprotective response

10h00 – 10h20: Joseph KHOURY (Biologie neurovasculaire et mitochondriale intégrée, Université d'Angers, France)

The aqueous buds extract of Eucalyptus neutralizes the main enzymatic activities of Montivipera bornmuelleri venom

10h20 – 10h50: Coffee break & Posters

10h50 – 11h20: Michael HENEKA (Clinical Neuroscience Unit, Department of Neurology, University of Bonn, Germany)

Does neuroinflammation represent a promising therapeutic target in Alzheimer's disease?

11h20 – 11h50: Félix VIANA (Instituto de Neurociencias de Alicante, Universidad Miguel Hernández y CSIC, Alicante, Spain)

TRPA1 channels: molecular sentinels of cellular stress and tissue damage

11h50 – 12h10: Jean-David MOREL (Unité d'Immunobiologie de l'Infection, Institut Pasteur, Paris, France)

Host immunomodulation by mycolactone, the Mycobacterium ulcerans toxin

12h10 – 15h00: Lunch & Posters

15h00 – 15h20: Alexander BELYY (Unité de Biochimie des Interactions macromoléculaires, Institut Pasteur, Paris, France)

Actin activates Pseudomonas aeruginosa ExoY nucleotidyl cyclase toxin

15h20 – 15h40: Naoual OUKKACHE (Laboratoire des Venins et Toxines, Institut Pasteur du Maroc, Casablanca, Maroc)

Characterization of Am IT, an anti-insect β -toxin isolated from the venom of scorpion Androctonus mauretanicus

15h40 – 16h00: Laura DROCTOVE (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)

Crystal structure and functional domains of the Mambaquaretin-1, a vasopressin type 2 receptor peptide inhibitor for kidney cysts treatment

16h00 – 16h20: Alexandre CHENAL (Département de Biologie structurale et Chimie, Institut Pasteur, Paris, France)

Calcium tightly regulates disorder-to-order transitions involved in the secretion, folding and functions of the CyaA toxin of Bordetella pertussis, the causative agent of whooping cough

16h20 – 16h40: Justyna CIOLEK (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)

Muscarinic toxin 9: a novel peptide from Dendroaspis polylepis venom that selectively targets muscarinic type 2 receptor

16h40 – 17h00: Romulo ARAOZ (Service d'Ingénierie Moléculaire des Protéines, CEA de Saclay, Gif-sur-Yvette, France)

Vulcanodinium rugosum (French-isolate) producer of pinnatoxin-G, also synthesizes portimine, a potent inducer of apoptosis, that also acts as an antagonist of nicotinic acetylcholine receptors

17h00 – 17h10: Closure. Evelyne BENOIT (SFET President)