



## PROGRAM

Thursday, December 9

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

**9h10 – 11h50 Session 1 | Plant toxins, algal toxins, mycotoxins Chairpersons: Julien BARBIER & Sébastien DUTERTRE**

**9h10 – 9h40: Irina VETTER** (Inst. for Molecular Bioscience, Univ. of Queensland, Centre for Pain Research, Brisbane, Australia)  
*The plant with the scorpion sting: novel pain-causing toxins from the Australian giant stinging tree*

**9h40 – 10h10: Denis SERVENT** (Service d'Ingénierie Moléculaire pour la Santé, CEA de Saclay, Gif-sur-Yvette, France)  
*Evidences that pinnatoxin-G crosses intestinal, hematoencephalic and maternofetal barriers to reach central and peripheral nicotinic acetylcholine receptors*

**10h10 – 10h40: Etienne BILGO** (Research Inst. of Health Sciences/Centre Muraz, Bobo-Dioulasso, Burkina Faso)  
*A Blue Mountains funnel-web spider toxin expressed under control of a hemolymph-specific promoter increases fungal lethality against insecticide-resistant malaria-vector mosquitoes*

**10h40 – 11h10: e-Break / Posters & Sponsors**

**11h10 – 11h30: Claire LEGENDRE** (MITOVASC, Univ. d'Angers, Angers, France)  
*Screening an in-house library of isoquinoline alkaloids with fluorescent probes for discovering new ligands of voltage-gated Na<sup>+</sup> and Ca<sup>2+</sup> channels*

**11h30 – 11h50: Rómulo ARÁOZ** (Service d'Ingénierie Moléculaire pour la Santé, CEA de Saclay, Gif-sur-Yvette, France)  
*Bioaccumulation of cyclic imine toxins in shellfish intended for human consumption*

**11h50 – 12h40: Posters as 3-min highlights**

**12h40 – 13h10: e-Break / Posters & Sponsors**

**13h10 – 14h10: Posters & Sponsors**

**14h10 – 17h40 Session 2 | Animal toxins Chairpersons: Sylvie DIOCHOT & Loïc QUINTON**

**14h10 – 14h40: Marianne AMALRIC** (Laboratory of Cognitive Neurosciences, Aix-Marseille Univ., CNRS, Marseille, France)  
*Bee venom and its component apamin have anti-parkinsonian properties in animal models of Parkinson's disease*

**14h40 – 15h10: Jens PUSCHHOF** (Hubrecht Inst., Utrecht, the Netherlands)  
*Slithering stem cells - Understanding snake venom production using organoids*

**15h10 – 15h40: Karla DE CASTRO FIGUEIREDO BORDON** (Dept. of BioMolecular Sciences, School of Pharmaceutical Sciences of Ribeirão Preto, Univ. of São Paulo, Ribeirão Preto, Brazil)  
*Prospection of animal toxins in drug discovery - Challenges and perspectives*

**15h40 – 16h10: e-Break / Posters & Sponsors**

**16h10 – 16h40: Shoji MAEDA** (Univ. of Michigan, Ann Arbor, MI, USA)  
*Redirection of the mAChR subtype selectivity of the muscarinic toxin*

**16h40 – 17h00: Jacinthe FRANGIEH** (Laboratory of Applied Biotechnology, Lebanese Univ., Tripoli, Lebanon)  
*The venom of the Lebanese viper, Montivipera bornmuelleri, contains vasoactive compounds*

**17h00 – 17h20: Steven ASCOËT** (Univ. de Toulouse, Institut National Universitaire Jean-François Champollion, Albi, France)  
*Comparative investigation of the mechanisms of two cytotoxic venom peptides from the ant Tetramorium bicarinatum*

**17h20 – 17h40: Maria P. IKONOMOPOULOU** (Madrid Institute for Advanced Studies in Food, Madrid, Spain)  
*Lipids and cholesterol mediate the cytotoxicity of spider peptides*

**17h45 – 19h00: General Assembly of the SFET (2021 SFET members only)**

## Friday, December 10

**9h00 – 12h20 Session 3 | Bacterial toxins**

**Chairpersons: Daniel LADANT & Michel R. POPOFF**

**9h00 – 9h30: Holger BARTH** (Inst. of Pharmacology and Toxicology, Ulm Univ., Germany)  
*Synthetic AB-toxins for targeted pharmacological modulation of cancer and immune cells*

**9h30 – 10h00: Daniel GILLET** (Molecular Engineering for Health Unit, CEA of Saclay, Gif-sur-Yvette, France)  
*Phenotypic screening for anti-toxin molecules selects inhibitors of intracellular trafficking with broad-spectrum anti-infectious properties*

**10h00 – 10h30: Laurent BOYER** (Mediterranean Centre for Molecular Medicine, Univ. Côte d'Azur, Nice, France)  
*NLRP3 inflammasome sensing of RhoGTPase-activating toxins during bacteremia*

**10h30 – 11h00: e-Break / Posters & Sponsors**

**11h00 – 11h20: Vincent DERUELLE** (Unité de Biochimie des Interactions Macromoléculaires, Institut Pasteur, Paris, France)  
*ExoU and ExoY, two toxins from Pseudomonas aeruginosa with different mechanisms of action and biological effects*

**11h20 – 11h40: Marco PIRAZZINI** (Dept. of Biomedical Sciences, Univ. of Padova, Padova, Italy)  
*Moving forward tetanus therapy: two exceptionally potent humAbs are effective for prophylaxis and treatment in mice*

**11h40 – 12h00: Alexandre CHENAL** (Unité de Biochimie des Interactions Macromoléculaires, Institut Pasteur, Paris, France)  
*CyaA toxin cell invasion involves membrane-active and calmodulin-binding properties of its translocation domain*

**12h00 – 12h20: Michel R. POPOFF** (Unité des Toxines Bactériennes, Institut Pasteur, Paris, France)  
*Is the regulation of toxinogenesis the same in Clostridium botulinum and Clostridium tetani?*

**12h20 – 12h50: e-Break / Posters & Sponsors**

**12h50 – 14h30: Posters & Sponsors**

**14h30 – 16h30 Session 4 | Miscellaneous**

**Chairpersons: Alexandre CHENAL & Christian LEGROS**

**14h30 – 14h50: Landry TSOUMTSA** (Unité des Toxines Bactériennes, Institut Pasteur, Paris, France)  
*The cnf1 gene is associated to an expanding Escherichia coli ST131 H30Rx/C2 sublineage and confers a competitive advantage for host colonization*

**14h50 – 15h10: Michel DE WAARD** (Institut du thorax, Univ. de Nantes, Nantes, France)  
*In vivo spatiotemporal control of voltage-gated ion channels by engineered photoactivatable peptidic toxins*

**15h10 – 15h30: Barbara RIBEIRO** (Institut du thorax, Univ. de Nantes, Nantes, France)  
*Functional impact of BeKm-1, a high-affinity hERG blocker, on cardiomyocytes derived from human-induced pluripotent stem cells*

**15h30 – 15h50: Marco STAZI** (Dept. of Biomedical Sciences, Univ. of Padova, Padova, Italy)  
*An agonist of the CXCR4 receptor is therapeutic for the neuroparalysis induced by Bungarus snake envenoming*

**15h50 – 16h10: Roberto PONCE-LOPEZ** (Univ. Nacional Autónoma de México, Cuernavaca, Morelos, México)  
*Neutralization of crostamine by polyclonal antibodies against two rattlesnake venoms and a novel recombinant fusion protein*

**16h10 – 16h30: Ayoub LAFNOUNE** (Laboratoire des Venins et Toxines, Institut Pasteur du Maroc, Casablanca, Morocco)  
*Anti-cancer effect of the Moroccan cobra (Naja haje) venom and its fractions against hepatocellular carcinoma in 3D cell culture*

**16h30 – 16h45: Participant votes for “best poster” and “best oral communication” awards**

**16h45 – 16h55: Ceremony for “best poster” and “best oral communication” awards**

**16h55 – 17h00: Closure by Evelyne BENOIT (SFET President)**