

# Forum Junior Section: SCIENTIFIC PROGRAM

# Wednesday 18th June, 2025

13h30 Participant Welcome

14h SFBBM presentation by Martin Picard (President) & JS members Introduction to SFBBM JS, FEBS JS, YSF & ENABLE

14h30 SESSION 1: Early-Career Researchers in Academia

#### **INVITED SPEAKERS:**

14h30 Elise Kaplan (CR CNRS, MMSB, Lyon)

15h20 Nicolas Kint (MCU, Sorbonne University, Paris)

15h50 COFFEE BREAK

16h20 SESSION 2: Early-Career Researchers in Industry

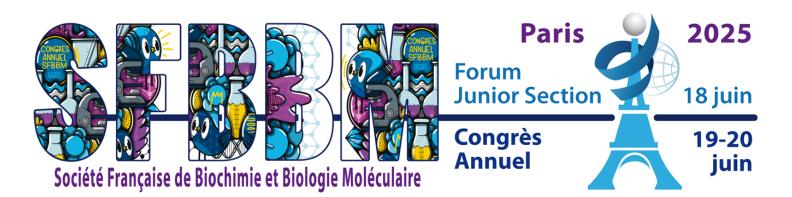
#### **INVITED SPEAKERS:**

16h20 Delphine Allouche (Scientist, Sanofi, Lyon)

17h10 Thomas Alexandre (Microbiology expert, InterScience, Paris)

17h40 Panel Discussion : Career Development and Future of Biochemistry and Molecular Biology

**2025 JS SFBBM cocktail** Faculty of Pharmacy



## SCIENTIFIC PROGRAM OF THE ANNUAL SFBBM CONGRESS

# DAY 1 – Thursday 19<sup>th</sup> June, 2025

8h	Welcome.	coffee and	poster installation

9h Opening of the congress

## 9h15 Plenary lecture by Claire HELLIO

"Fostering innovation in marine biotechnologies (R&D and higher education): from chemical ecology to marine biotechnology using bioinspirated approaches"

#### 10h15 SESSION 1: RNA MODIFICATIONS AND EPIGENOMICS

Chairs Sylvain Maenner & Philippe Fossé

## **INVITED SPEAKER: Youri Motorin**

"Challenges in RNA modification mappping by deep sequencing"

## 10h45 Grunberg-Manago 2024 Prize: Pascale LESAGE

"Strategies for targeting retrotransposon integration to safe harbors"

#### 11h05 Maurice Nicloux 2024 Prize: Maxime WERY

"Pervasive translation of cryptic cytoplasmic long noncoding RNAs"

### 11h25 Clément CARRE

"The RNA methyl-transferase enzyme FTSJ1: conserved role in neuron morphology & learning performance "

## 11h40 Zeynep BAHAROGLU

"Epitranscriptomic response to antibiotics in Vibrio cholerae"

### 11h55 Partho Sarothi RAY

"Impact of oxidative stress on the epigenetic regulation of non-coding RNAs: a biochemical and transcriptomic investigation "

#### 12h15 LUNCH BREAK

13h30

# Presentation of the SFBBM Honorary Membership Medal to Alain Krol in recognition of his commitment to our society

#### 14h SESSION 2: MEMBRANE

Chairs Isabelle Broutin & Martin Picard

#### **INVITED SPEAKER: Nadia IZADI-PRUNEYRE**

"Integrative structural biology of bacterial membrane nanomachines"

#### 14h30 Maurice Nicloux 2022 Prize: Ludovic PELOSI

" Ubiquinone biosynthesis in *Escherichia coli*: characterization of an O2-independent pathway "

#### 14h50 Gilles PHAN

"Structure-function study of pseudopaline secretion in Pseudomonas aeruginosa"

#### 15h05 Damila MILHOVILCEVIC

"Structural and functional characterization of the sensor/transducer MecR1 protein of Staphylococcus aureus"

#### 15h20 Adria SOGUES

"Order at the surface: atomic architecture and living dynamics of the Corynebacterium glutamicum molecular armour "

#### 15h35 POSTERS SESSION – COFFEE BREAK

#### 16h30 SESSION 3: EDUCATION

Chairs Zaineb Kammoun & Xavier Coumoul

#### **INVITED SPEAKER: David Smith**

"The power and peril of AI in education"

## 17h10 Claire STINES-CHAUMEIL

" Promoting awareness of industrial property in biochemistry education "

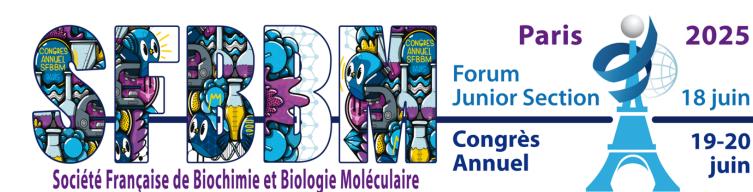
#### 17h25 Xavier COUMOUL

" Metabolism in motion: rethinking biochemistry through visual storytelling "

#### 17h40 DUNOD Edition – Lionel GOURAUD et Laëtitia JAMMET

SFBBM GENERAL ASSEMBLY Martin Picard, president Philippe Fossé, treasurer

# **2025 SFBBM annual congress cocktail Faculty of Pharmacy of Paris**



**DAY 2 - Friday 20th June, 2025** 

8h30 SESSION 4: STRUCTURAL BIOLOGY & ENZYMES

Chairs Béatrice Vallée-Méheust, Marlène Vayssières & Sophie Rahuel-Clermont

**INVITED SPEAKER: Marcin SUSKIEWICZ** 

" Of filaments and condensates: the underappreciated realm of protein polymerization"

9h00 SFBBM article of the year 2024 award: Marlène VAYSSIERES

"Structural basis of DNA crossover capture by Escherichia coli DNA gyrase"

9h20 Dina Surdin 2024 Prize: Aria GHEERAERT

"Harnessing enzyme activities with dynamical structural comparisons"

9h40 Nathalie COLLOC'H

"Inhibitor binding in rate excited states of Ras revealed by high pressure crystallography"

9h55 Maria IMEZA

"Study of the RNA Ligase Pab1020, responsible for RNA circularization in Archaea"

10h10 Marah SAD

"The IDR of PAP acts as a molecular ruler to guide CFIm25 in mRNA polyadenylation site selection "

10h15 POSTERS SESSION – COFFEE BREAK

11h15 SESSION 5: SYNTHETIC & CHEMICAL BIOLOGY

Chair Hélène Munier-Lehmann

**INVITED SPEAKER: Karsten HAUPT** 

"Molecularly imprinted polymer nanogels: synthetic mimics of peptide antibodies for biomedical diagnostics and therapy"

11h45 Batoul MAHCENE

"Stable SAM analogues as promising scaffolds for RNA methylation inhibition"

12h Horgan MANIRAKIZA

"Chemogenetic spectral modulation of bioluminescence for imaging and sensing "

## 12h15 Natale Noël SCARAMOZZINO

"Antibody targeting the anti-parallel topology of human telomeric G- quadruplex DNA"

## 12h30 Agathe URVOAS

"Engineering artificial repeat proteins towards modular assemblies and cellular tools "

#### 12h45 LUNCH BREAK

#### 13h30 SESSION 6: PLANTS

Chair Claire Rosnoblet

## **INVITED SPEAKER: Christophe D'HULST**

" My sweet tuber: characterization of the molecular basis of the cold-induced-sweetening in potato"

#### 14h Linda DE BONT

"The hexameric atypical thioredoxin from poplar, DCC1, possesses a redox holdase activity "

#### 14h15 Damien INES

"Rhizophagus irregularis DAOM197198 modulates the root ubiquitinome of Medicago truncatula in the establishment and functioning of arbuscular mycorrhizal symbiosis "

#### 14h30 Sara-Alina NEUMANN

" Methylation of ribosomes and translation in Arabidopsis "

## 14h45 SESSION 7: STRUCTURE, FUNCTION & DIVERSITY OF NUCLEIC ACIDS

Chair Nathalie Chamond & Magali Blaud

## **INVITED SPEAKER: Redmond Smyth**

"Sensitive localization of influenza RNA in cells by direct RNA padlock probing and in-situ sequencing"

## 15h15 Gwenaëlle ANDRE

" A new drug targeting the evolvability protein Mfd against ESKAPE infections "

#### 15h30 Marie IMBERT

"Structural snapshots of D-loop formation in Archaea revealed by cryo-EM"

## 15h45 Nathalie CHAMOND

" Challenging the paradigm: DDX3X exhibits robust helicase activity on HIV-1"

#### 16h Nicolas SOLER

"Two OB-fold proteins from a Gram-positive ICE modulate relaxase biochemical activities "

## Poster and presentation prize ceremony and conclusion