



Société Française de Biochimie et Biologie Moléculaire

Paris  
Forum  
Junior Section  
Congrès  
Annuel



2025  
18 juin  
19-20  
juin

## Forum Junior Section: SCIENTIFIC PROGRAM

Wednesday 18<sup>th</sup> 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



Société Française de Biochimie et Biologie Moléculaire

Paris  
Forum  
Junior Section  
Congrès  
Annuel



2025  
18 juin  
19-20  
juin

## 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 bioinspired approaches ”

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

Chairs Sylvain Maenner & Philippe Fossé

##### INVITED SPEAKER: Youri Motorin

“ Challenges in RNA modification mapping 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 O<sub>2</sub>-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**



Société Française de Biochimie et Biologie Moléculaire

Paris  
Forum  
Junior Section  
Congrès  
Annuel



2025  
18 juin  
19-20  
juin

## DAY 2 – Friday 20<sup>th</sup> 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**