

# Forum Junior Section: SCIENTIFIC PROGRAM

# Wednesday 18<sup>th</sup> June, 2025

- 13h30 Participant Welcome
- 14hSFBBM presentation by Martin Picard (President) & JS membersIntroduction 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

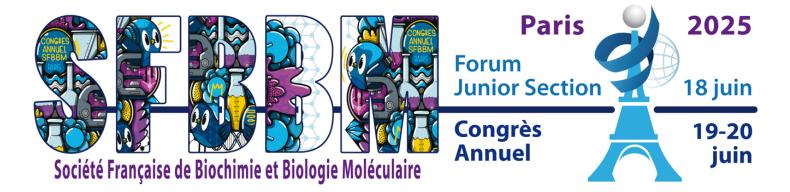
16h20 SESSION 2: Early-Career Researchers in Industry

# **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

" Transcriptomic analysis reveals regulation of miRNA and RBP binding by mRNA m6A modifications "

#### 12h15 LUNCH BREAK

13h30Presentation of the SFBBM Honorary Membership Medal to Alain Krol<br/>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 "

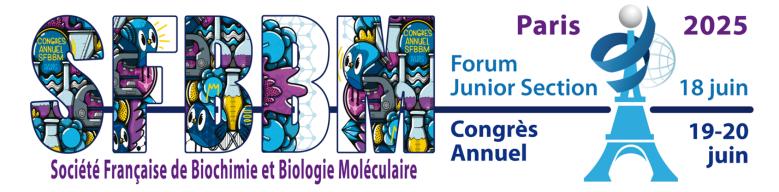
#### 17h25 Xavier COUMOUL

" 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 20<sup>th</sup> June, 2025

8h30	SESSION 4: STRUCTURAL BIOLOGY & ENZYMES Chairs Béatrice Vallée-Méheust, Marlène Vayssières & Sophie Rahuel-Clermont
	<b>INVITED SPEAKER: Marcin SUSKIEWICZ</b> " 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 <i>Escherichia coli</i> DNA gyrase"
9h20	<b>Dina Surdin 2024 Prize: Aria GHEERAERT</b> "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 IMEZAR " 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