



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 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



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SCIENTIFIC PROGRAM OF THE ANNUAL SFBBM CONGRESS

DAY 1 – Thursday 19th 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

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

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



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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 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