



IMCBio Graduate School - Master Day 2024

03/09/24 at IGBMC, 1 rue Laurent Fries 67400 Illkirch-Graffenstaden

8 :45 – 9 :15	Welcome and reception IGBMC reception hall
9 :15 – 9 :30	Presentation of the IMCBio EUR – Bertrand Séraphin (Director of the Graduate School) IGBMC Auditorium
9:30 – 10:30	Flash presentation M1 internships by M2 IMCBio students (1/2)* Auditorium
	Jérémy Dufat - M2 PBMB - IBMCP - Valencia
	Zoé Rebelle – M2 BGM - Center for Anatomy and Cell Biology - Vienna
	Tom Lanchec – M2 GDCS - IBMP - Strasbourg
	Justine Decouvelaere – M2 BBS - ITM - Strasbourg
	Bruno Alejandro Del Carpio Martinez – M2 Virology - IBMC - Strasbourg
	Armina Jero – M2 BGM - Roslin Institute – Edinburgh
10:30 – 11:00	Coffee break Salle “Ping-pong” / Cafet / Outside (depending on the weather)
11:00 – 12:00	Flash presentation M1 internships by M2 IMCBio students (2/2)* Auditorium
	Ikram Bendraoua – M2 PBMB - IGBMC - Strasbourg
	Medhi Krajcovic – M2 BGM - GMGM - Strasbourg
	Inzhu Tanoz – M2 BBS - Mediterranean Institute of Oceanography - Marseille
	John-Vincent Beauvais – M2 BGM - Roslin Institute - Edinburgh
	Louise Bucher – M2 GDCS - GMGM - Strasbourg
	Marie Diebolt – M2 BGM: - Yale University – New Haven
12:00 – 14:00	Lunch break and poster session* Lunch: Salle “Ping-pong” / Cafet / Outside (depending on the weather) Poster session: CBI hall
14:00 – 15:20	ITI IMCBio+ & clusters research presentations Auditorium
	ITI IMCBio+ - Ivan Tarassov (Coordinator of the ITI)
	Cluster research MitoCross – Ivan Tarassov (Manager of the CR)
	Cluster research HepSYS – Eloi Verrier (Researcher in the CR)
	Cluster research INRT – Sandrine Testaz (Executive director of IGBMC)
	Cluster research NetRNA – Pascale Romby (Manager of the CR)
15:20 – 15:30	IMCBio M1 application & selection presentation – Gwenaëlle Graulier (Graduate School manager) Auditorium
15:30 – 16:00	Discussion Auditorium
16:00	End of the IMCBio Master Day 2024



Reserved to IMCBio M2 students & IMCBio Restricted Master committee:

12:00 – 14:00	Lunch (only for the Restricted Master Committee) Room 1005, first floor North building
13:30 – 14:00	Update on the organization of the Symposium (only for the M2 students) Room 2004, second floor North building
14:00 – 15:30	M1 year review with tutors Rooms 1005 (first floor North building) + 2004 (second floor North building) Allocation to your convenience

*Flash presentations details

Flash presentations in order of appearance:

- **Jérémy Dufat – M2 PBMB :**
Evaluation of the efficacy of "In tandem" amiRNA and syn-tasiRNA expression via PVX for multigene silencing in *Nicotiana benthamiana*
Alberto Carbonell's lab – IBMCP – Valencia
- **Zoé Rebelle – M2 BGM:**
A-to-I modifications and their involvement in the innate immune response
Michael Jantsch's lab – Center for Anatomy and Cell Biology – Vienna
- **Tom Lanchec – M2 GDSCS:**
Study on a molecular determinant regulating the poly(A) tail length in *Arabidopsis thaliana*
Dominique Galiardi's lab – IBMP – Strasbourg
- **Justine Decouvelaere – M2 BBS:**
Analysis of HBV + HDV co-infection in various hepatocytes models using RNA-seq
Thomas Baumert's lab – ITM – Strasbourg
- **Bruno Alejandro Del Carpio Martinez – M2 Virology:**
Generation of plasmids to create transgenic mosquitoes expressing ONNV and CHIKV nsP3
Joao Trindade Marques's lab – IBMC – Strasbourg
- **Armina Jero – M2 BGM:**
Gene implicated in patterning waves in chicken feather formation
Denis Headon's lab – Roslin Institute – Edinburgh
- **Ikram Bendraoua – M2 PBMB:**
A new family of translational regulators in *Saccharomyces cerevisiae*?
Bertrand Séraphin's lab – IGBMC – Strasbourg
- **Medhi Krajcovic – M2 BGM:**
Control of the Tor pathway by organellar echoforms of Aminoacyl tRNA synthetases
Hubert Becker's lab – GMGM – Strasbourg
- **Inzhu Tanoz – M2 BBS:**
Protein fold usages in ribosomes: another glance to the past
Magali Lescot & Elvira Pulido's lab – Mediterranean Institute of Oceanography – Marseille
- **John-Vincent Beauvais – M2 BGM:**
Genome-wide occupancy of the epigenetic regulator JMJD6
Douglas Vernimmen's lab – Roslin Institute – Edinburgh
- **Louise Bucher – M2 GDSCS:**
Transfer RNA as a novel tool addressing human pathogenic mitochondrial mutations
Ivan Tarassov & Alexandre Smirnov's lab – GMGM – Strasbourg
- **Marie Diebolt – M2 BGM:**
Investigation of novel phospho-binding proteins in the human proteome
Jesse Rinehart's lab – Yale University – New Haven

*Poster session details

- Team RNA diseases – Nicolas Charlet-Berguerand – IGBMC, INRT**
 The Dark Genome: How genetic mutations located in the “non-coding” genome can cause human diseases
- Team Mitochondrial-nucleus cross-talk in health and disease -Ivan Tarassov – GMGM, MitoCross**
 MITOteam: mitochondria-nucleus cross-talk in health and disease
- Team Muscle and diseases – Johann Bohm – IGBMC, INRT**
 Mechanisms and therapies of neuromuscular disease
- Team Bacterial regulatory RNA – Maximilian Kohl – IBMC, NetRNA**
 Retapamulin assisted ribosome profiling in the opportunistic human pathogen *Staphylococcus aureus*
- Team Cellular plasticity & direct reprogramming in *C. elegans* – Deborah Warrington – IGBMC, INRT**
 Jarriault’s lab: the mechanisms underlying cellular reprogramming
- Team Metabolic compartmentalization & Membrane-less organelles – Ludovic Enkler – GMGM, MitoCross**
 Studying metabolic compartmentalization in Eukaryotes
- Team Eukaryotic mRNA decay – Lucie Labeauvie – IGBMC, INRT**
 mRNA decay and its regulation in eukaryotes
- Team Transcription complexes in development and disease – Stéphane Vincent – IGBMC, INRT**
 RNA polymerase II transcription initiation in holo-TFIID depleted mouse embryonic stem cells
- Team Biomolecular condensation in nuclear organization & function – Mikhail Eltsov & Mohamad Harastani – IGBMC, INRT**
 Template Learning: Deep Learning with Domain Randomization for Particle Picking in Cryo-Electron Tomography
- Team Cellular architecture – Delnia Nazari – IGBMC, INRT**
 Investigating the Cytoskeleton's Association with the Golgi Apparatus: A Quantitative Ultrastructural Study
- Team RNA degradation in plants – Hanzhang Yu & Pietro Giraud – IBMP, NetRNA**
 Identify new factors and molecular processes that control RNA degradation in plants
- Team Study of copy number variants in autism spectrum disorders & their comorbidities – Marianne Lemée – IGBMC, INRT**
 Study of copy number variants in autism spectrum disorders and their comorbidities
- Team mRNA processing – Salvatore Terrosu & Clément Charenton – IGBMC, INRT**
 Locked in transition: Biochemical and biophysical insights into phosphorylation-assisted spliceosome activation
- Team Mechanisms of small RNA biogenesis and action – Zoi Pentheroudaki – IBMP, NetRNA**
 Deciphering the expression patterns of Pol IV and its function in plant tolerance to viruses
- Team Chromatin stability & DNA mobility – To come - IGBMC, INRT**
 Molecular regulation of DNA topology
- Team Actin dynamics & biomechanics of the early embryo – Marjolaine Dufour-Nicodex – IGBMC, INRT**



Impact of actin variants on molecular dynamics and cortical mechanical properties in living embryos.

■ **Team Regulation of cortical development in health & disease – Romain Lecat – IGBMC, INRT**

Understanding the physiological and pathological roles of the tRNA deaminase complex, ADAT2/3, during cortical development

■ **Team RNA regulation in viral infections – Sébastien Pfeffer – IBMC, NetRNA**

Non-canonical contribution of human Dicer helicase domain in antiviral defense

■ **Team Plants epigenetics – Nicolas Baumberger – IBMP, NetRNA**

Epigenetic Regulation in Plants: From Reproduction to Defense

■ **Team Chemical biophysics of transcriptional signaling – *To come* - IGMBC, INRT**

To come

■ **Team Nuclear organization & division – Maxime Ledoux Vanek – IGBMC, INRT**

Role of Nuclear Pore Complex Acetylation in mRNA Export

■ **Team Large complexes involved in gene expression – Charles Barchet & Roberto Bahena – IGBMC, INRT**

Large complexes involved in gene expression regulation

■ **Team Brain development & physiology – Quentin Brassar & Yash Parekh – IGBMC, INRT**

Retinoid X receptor gamma links aging associated and disease induced oligodendrogenesis

Retinoid X receptors as determinants of microglia ontogenesis and function