

SYMPOSIUM



# IGBMC SYMPOSIUM

June 13<sup>th</sup>-14<sup>th</sup>, 2024

IGBMC Auditorium - Illkirch, Strasbourg



## PRELIMINARY PROGRAM

### Day 1, June 13<sup>th</sup>

8.45 – 9.00	<b>Welcome and introduction</b>
9.00 – 9.30	<b>Giangrande team</b> Characterisation of a new pioneer factor in Drosophila
9.30 – 10.00	<b>Golzio team</b> Copy number variants and autism spectrum disorders
10.00 – 10.30	<b>Li team</b> Uncovering a new immunosuppressive axis in the skin across allergy and cancer
<b>10.30 – 11.00</b>	<b>Coffee break</b>
11.00 – 11.30	<b>Reymann team</b> Unraveling actin dynamics in C. elegans: from molecular dynamics to phenotypic outcomes
11.30 – 12.00	<b>Mendoza team</b> Gene-specific transcript buffering revealed by perturbation of coactivator complexes
12.00 – 12.30	<b>Flash Talks (5 minutes each, see program on page 2)</b>
<b>12.30 – 14.00</b>	<b>Lunch (not provided)</b>
14.00 – 14.30	<b>Sexton team</b> Transcription induces context-dependent remodeling of chromatin architecture during differentiation
14.30 – 15.00	<b>Ruff team</b> HIV-1: Nuclear import, integration and condensed phases
15.00 – 15.30	<b>Godin team</b> Investigating tRNA levels and modifications as novel regulators of cortical neurodevelopment
15.30 – 16.00	<b>Lamour team</b> Structural basis of DNA crossover capture by a type 2 DNA topoisomerase
16.00 – 18.00	<b>Poster session (Organised by IGBMC SPB)</b>

**Drinks and snacks**

## **Day 2, June 14<sup>th</sup>**

9.00 – 9.30	<b>HERAULT team</b> Comorbidities in Down syndrome: how much we can learn from mouse models?
9.30 – 10.00	<b>Kim team</b> Decoding the muscle-tendon junction
10.00 – 10.30	<b>Chan-Kastner team</b> Hematopoiesis and Disease
<b>10.30 – 11.00</b>	<b>Coffee break</b>
11.00 – 11.30	<b>Raina-San-Martin team</b> Fam72a regulates the balance between error-prone and error-free DNA repair during antibody diversification
11.30 – 12.00	<b>Molina team</b> Spatiotemporal Regulation of Gene Expression Dynamics Throughout the Cell Cycle
12.00	<b>Conclusion</b>
<b>Late Afternoon</b>	<b>IGBMC Family BBQ and picnic</b>

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### **FLASH TALKS (June 13<sup>th</sup>, Day 1, 12.00)**

**1. Elodie Monsellier**

An integrative interactomic approach to assess the function of CASK and its involvement in Neurodevelopmental Disorders

**2. Matej Durik**

Senescent cells deposit intracellular contents through adhesion-dependent fragmentation

**3. Thomas Boutet**

Investigating epigenetic changes underlying adaptation to high parasite exposure

**4. Gurudatt Patra**

Localization of condensin complexes in partially decondensed mitotic chromosomes by cryo-optical imaging and cryo-electron Tomography

**5. Jacqueline Ji**

Muscle targeted gene therapy to cure BIN1 centronuclear myopathy

**6. Geoffrey Gourinchas**

Structural Characterization of co-transcriptional pre-mRNA splicing

POSTERS (June 13<sup>th</sup>, Day 1, 16.00 – 18:00)

	Title	Presenter
1	Interaction of epithelial cysts: coalescence of cell monolayers and fusion of lumens.	André Marie
2	Mechano-chemical coupling in the acto-myosin cytoskeleton under Rho regulation	Berthoz Rémi
3	Role of Ikaros and Helios in hematopoietic stem cells	Bianchi Geoffrey
4	RXRg inhibits Shh and its pathway to promote OPC differentiation	Brassart Quentin
5	Senescent cells deposit intracellular contents through adhesion-dependent fragmentation	Durik Matej
6	Characterization of the role of neurotransmitter mediated signaling in the innate immune system	Gege Zhang
7	Testing tamoxifen as a potential therapeutic approach for recessive RYR1-related myopathy	Gineste Charlotte
8	Structural Characterization of co-transcriptional pre-mRNA splicing.	Gourinchas Geoffrey
9	Study of TSLP signaling through dendritic cells in driving skin T cell responses	Guivarch Marine
10	Interactomics and functional exploration of the HERC2-centered network of DxDKxD motif proteins potentially involved in various neurodevelopmental disorders	Lim Jia Wen
11	Structural and functional studies of human topoisomerase 2a on chromatin complexes	Lopez Brian
12	Topological defects roles in breaking symmetry of cysts and organoids	Lu Linjie
13	An integrative interactomic approach to assess the function of CASK and its involvement in Neurodevelopmental Disorders	Monsellier Elodie
14	In vivo application of exon skipping peptide-conjugated morpholinos for the treatment of centronuclear myopathy through downregulation of dynamin 2	Moschovaki-Filippidou Foteini
15	Dietary stress induced macrophage metabolic reprogramming, a determinant of animal growth	Najar Sajad Ahamd
16	Inhibiting Tumorigenesis through Targeted Modulation of UBASH3B Mitotic Function	Pangou Evanthia
17	Role of CERT1 in control of microglia biology in mice – relevance for cognitive functions	Parekh Yash
18	Development of an automated system in a complex environment to study the influence of the group on the personality of mice	Pouit Gloria
19	Effect of the loss of the interaction between the Cohesin complex and its NIPBL regulator in vivo	Rigal Jules
20	Characterisation of the 3D structure of muscle cells in normal and pathological conditions	Rousse Manon
21	Unraveling glutamatergic dysregulation in rar $\beta$ null mice striatal synapses and its implications in neurological disorders	Semaan Hanna
22	Function of m6A mRNA modification during meiosis in yeast	Sène Lina
23	Role of Macrophages in Neurodegenerative Conditions	Tabiat Tarek