5th GDR Architecture and Dynamics of the Nucleus and Genomes (ADN&G)

Thursday 10th and Friday 11th of April, 2025
**Genopolys - Campus Arnaud de Villeneuve,
141 Rue de la Cardonille, 34090 Montpellier**

Organizing committee: Assya Achour, Frédéric Bantignies, Jean-Charles Walter

Thursday April 10

12h30-13h50: Inscription and lunch (sandwiches)

13h50: Session Genome stability & *cis*-regulation [20 min/(talk+questions)]

Welcoming words from the organizers

Karine Dubrana. *Cohesin complex oligomerization maintains end-tethering at dna double-strand breaks.*

Janélie Bâcle. *Does the nuclear envelope's structure and lipid composition impact genome stability?*

Andrew Oldfield. *Uncovering a New Function of Cis-Regulatory Elements in Alternative Splicing*

Marcelo Nollmann. *Is physical proximity required for enhancer action?*

15h30-16h30: Coffee break and poster session

16h30: Session Modeling I [20 min/(talk+questions)]

Dario D'Asaro. *Genome-Wide Modeling of 3D Chromosome Organization in Yeast S-Phase*

Loucif Remini. *Inferring chromatine structure from m-FISH data: A unified picture from human and mouse cells*

Linda Delimi. *The ParB-CTP Cycle Activates Phase Separation in Bacterial DNA Segregation*

Daniel Jost. *Cohesion vs loop extrusion: modeling the dual role of cohesins in budding yeast*

19h30: Visit Exposition *Arts & Sciences* at the MOCO (on inscription)

20h30: Cocktail diner at the MOCO

Friday April 11

9h30: Session Modeling II [20 min/(talk+questions)]

Manoel Manghi. *Elucidating chromosome dynamics in vivo by trajectory analyses and Brownian dynamics simulations*

Elham Ghobadpour. *Chromatin State-Dependent Polymer Model: Bridging Nucleosome Positioning and Large-Scale Chromatin Organization*

Marco Di Stefano. *Biophysical models of the genome structural organization*

10h30-11h30: Coffee break and poster session

11h30: Session Epigenetics [20 min/(talk+questions)]

Cyril Esnault. *Extracellular matrix stiffness modulates the nuclear lamina organisations and set nuclear conditions for PRC2 repression.*

Thierry Cheutin. *PRC1 nano-structures compact Hox chromatin during Drosophila embryogenesis*

Dominika Letkova. *Role of the H3.3 histone variant in establishment of mammalian circadian rhythms.*

Yelena Grishina. *Epigenetic mechanisms and treatment approaches for Mantle Cell Lymphoma*

13h: Lunch buffet & goodbye