

Tuesday March 31st

12h15-13h30: Welcome and Lunch

Interactions with other GDRs

13h30-14h: Fabien Montel, director of GDR AQV (Approches Quantitatives du Vivant), *Transcriptional and Mechanical Plasticity of the Nuclear Pore Complex*

Modeling and visualizing DNA and the Chromatin fiber (chair: Cédric Vaillant)

14h-14h20: Elham Ghobadpour, *How Linker DNA Architecture and Nucleosome States Shape Chromatin Fiber Structure*

14h20-14h40: Amélie Leforestier, *Intermolecular interactions tune the DNA double helix conformation and the architecture of supramolecular assemblies*

3D Genome organization during gametogenesis and development (chair: Cédric Vaillant)

14h40-15h: Guillermo Orsi, *Crystal-like genome organization in cricket sperm*

15h-15h20: Aline Probst, *Chromatin dynamics during the seed-to-seedling transition*

15h20-16h20: Coffee break + posters

DNA repair (chair: Aurèle Piazza)

16h20-16h40: Pierre-Alexandre Vidi, *RAD51 regulates eukaryotic chromatin motions in the absence of DNA damage*

16h40-17h: Nicolas Mendiboure, *Quantitative model of homology search during DNA repair by homologous recombination*

New technologies for 3D Genomics (chair: Aurèle Piazza)

17h-17h20: Axel Delamarre, *Chromatin architecture mapping by multiplex proximity tagging*

17h20-17h40: Léo Tarbouriech, *Revealing 3D contacts with time resolution in vivo using a new enzymatic technique*

18h-20h: Free time [possibility to go for a drink]

20h: Social Diner at Brasserie Georges - 30 Cours de Verdun – 69002 LYON

Wednesday April 1st

8h30-9h: Welcome and Coffee

Investigating SMC-mediated loop extrusion (chair: Ivan Junier)

9h-9h20: Nicolas Pellet, *Biophysics of condensin-mediated loop extrusion on chromatin*

9h20-9h40: Samuele Lipani, *Chromosome mechanics and relaxation from ensembles of polymer conformations*

9h40-10h: Flavia Corsi, *Modeling the 3D organization of centromeres: from holocentric to monocentric chromosomes*

10h-10h20: Timothy Foldes, *TBA*

10h20-10h40: Pascal Bernard, *Nucleosomes act as barriers to Condensin-driven mitotic genome folding*

10h40-11h20: Coffee break + posters

Chromatin and gene regulation (chair: Aline Probst)

11h20-11h40: Yad Ghavi-Helm, *Promoter-proximal elements restrict pleiotropic enhancer inputs to achieve tissue specificity*

11h40-12h: Julien Mozziconacci, *Expliquer les dépendances entre tracks génomiques grâce à l'IA*

12h-12h20: Jacques Serizay, *TBA*

12h20-12h40: Judith Lopes, *Interrogating the functional roles of H3K9me3 at pericentromeres*

12h40-13h: Gautham Ganesh, *Capturing motifs of folding from single-cell chromatin tracing data using unsupervised topic modelling*

13h: Farewell + Lunch Bag