

# Quatrième réunion annuelle du GdR ADN&G



30 - 31 mai 2024



CBI - Toulouse

## jeudi 30 mai

### 12:30-13:30 Welcome buffet

13:30-14:00 [Justine Groseille \(CIRB-Collège de France, Paris\)](#): Study of the role of the bacteriophage T4 protein, Ndd in the disorganization of the bacterial nucleoid in *E. coli*

14:00-14:30 [Leonid Mirny \(MIT\)](#): Rules of engagement for condensins and cohesins guide mitotic chromosome formation

14:30-15:00 [Frédéric Bantignies \(IGH, Montpellier\)](#): The role of histone acetylation in sub-megabase chromatin folding

15:00-15:30 [Iris Veyrier \(LMGM-CBI, Toulouse\)](#): Replicon dynamics during the cell cycle in *Escherichia coli*

15:30-16:30 coffee break and posters

16:30-17:00 [Fabiola Garcia Fernandez \(LCQB-Sorbonne Université, Paris\)](#): Histone ADP-ribosylation controls early multi-scale chromatin dynamics upon DNA damage

17:00-17:30 [Pierre-Alexandre Vidi \(Institut de Cancérologie de l'Ouest, Angers\)](#): Chromatin and nucleoplasm motions in response to DNA damage

17:30-18:00 [Kerstin Bystricky \(CBI, Toulouse\)](#): Linking chromatin dynamics and folding during transcription activation

18:00-18:30 [Philippe Collas \(University of Oslo\)](#): Lamin A/C deficiency re-wires transcription factor footprints and inhibits EMT

20:00 **social dinner downtown**

## vendredi 31 mai

09:00-09:30 [Perrine Revoil \(LMGM-CBI, Toulouse\)](#): Mechanism of bacterial DNA segregation: LLPS behavior, beyond trend and reality

09:30-10:00 [Linda Delimi \(L2C, Montpellier\)](#): Controlled liquid-like droplet formation of ParBS complexes through CTP binding and hydrolysis during bacterial DNA segregation

10:00-10:30 [Olivier Gadal \(MCD-CBI, Toulouse\)](#): Exploring model of chromosome in vivo : ribosomal DNA and nucleolus

10:30-11:00 [Nathan Lecouvreur \(IGMM, Montpellier\)](#): RNA profiling of molecular crowded nuclear micro-environments

11:00-11:30 coffee break

11:30-12:00 [Hafez El Sayyed \(Oxford University\)](#): Single-molecule tracking reveals the functional allocation, in vivo interactions, and spatial organization of universal transcription factor NusG

12:00-12:30 [Vinnarasi Saravanan \(UGSF-Université de Lille\)](#): Exploring uracil base opening dynamics in dsDNA through enhanced molecular dynamics simulations

12:30-13:00 [Céline Borde \(CIRB-Collège de France, Paris\)](#): An in vivo degradation system to study cross-talk between topoisomerases in E. coli

**13:00-14:00 lunch, end of the meeting**