



2nd meeting of the GDR Architecture and Dynamics of the Nucleus and Genomes (ADN&G)

June 22-24, 2022, Lyon

Day 1

- ◆ 12:45 - 13:45 **Lunch (buffet)**
- ◆ 13:45 -14:00 **Welcome session**
- ◆ 14:00 - 15:30 **Afternoon session 1**
- ◆ 15:30 - 16:15 **Coffee Break**
- ◆ 16:15 - 17:45 **Afternoon session 2**
- ◆ 18:00 - 20:00 **Drink (EL bar Debourg)**

Day 2

- ◆ 9:00 - 9:30 **Opening remarks**
- ◆ 9:30 - 11:00 **Morning Session 1**
- ◆ 11:00 - 11:30 **Coffee Break and group photo**
- ◆ 11:30 - 12:30 **Morning Session 2**
- ◆ 12:30 - 14:30 **Lunch (Buffet)**
- ◆ 14:30 - 16:00 **Afternoon session 1**
- ◆ 16:00 - 16:45 **Coffee Break**
- ◆ 16:45 - 17:45 **Afternoon session 2**
- ◆ 20:00 - 22:00 **Dinner (Brasserie Georges)**

Day 3

- ◆ 9:30 - 11:00 **Morning Session 1**
- ◆ 11:00 - 11:30 **Coffee Break**
- ◆ 11:30 - 12:30 **Morning Session 2**
- ◆ 12:30 - 12:45 **Closing remarks**
- ◆ 12:45 **Lunch (Buffet)**

Day 1: Wednesday June 22, 2022		Affiliation
12:45 - 13:45	** Lunch (buffet) **	
Welcome session		
13:45 - 14:00	<ul style="list-style-type: none"> ▪ Cedric Vaillant ▪ Elham Ghobadpour 	
Afternoon session 1		
14:00 - 14:30	Aurèle Piazza: Role of spatial chromatin organization in recombinational DNA repair and genomic instability	LBMC, Lyon
14:30 - 15:00	Ivan Junier: A minimal in vivo model to quantify the interplay between transcription and DNA supercoiling	TIMC Grenoble
15:00 - 15:30	Hossein Salari: Transcription-dependent genome folding	LBMC, Lyon
15:30 - 16:15	** Coffee Break **	
Afternoon session 2		
16:15 - 16:45	Fabian Erdel: Strategies to detect phase separation in cells	CBI, Toulouse
16:45 - 17:15	Hungyo Kharerin: Kinetic modeling of nucleosome dynamics on a chromatin fibre	Laboratoire de Physique de l'ENS, Lyon
17:15 - 17:45	Jiachuan Bai: Enhancing single molecule localization microscopy with deep learning	Institut Pasteur, Paris
** Drinks **		
18:00 - 20:00	"El bar Debourg", 239 Rue Marcel Mérieux, 69007 Lyon	

Day 2: Thursday June 23, 2022		Affiliation
9:00 - 9:30	Opening Remarks	
Morning session 1		
9:30 - 10:00	Marc Joyeux: Coarse-grained modelling of the bacterial nucleoid	LIPHY, Grenoble
10:00 - 10:30	Angelo Rosa: Bayesian inference on a 3D polymer model for epigenetic data	SISSA, Trieste
10:30 - 11:00	Daniel Jost: 3DGenBench: A web-server to benchmark computational models for 3D genomics	LBMC, Lyon
11:00 - 11:30	** Group Photo and Coffee Break **	
Morning session 2		
11:30 - 12:00	Mikhail Eltsov: Cryo-electron tomography and deep learning based image denoising reveal chromatin landscape at the nanometer resolution in situ	IGBMC, Strasbourg
12:00 - 12:30	Pascal Bernard: Interplays between nucleosomes, the histone chaperone FACT and condensin shape mitotic chromosomes	LBMC, Lyon
12:30 - 14:30	** Lunch (buffet)**	

Day 2: Thursday June 23, 2022		Affiliation
Afternoon session 1		
14:30 - 15:00	Simon B Grosse-Holz: Uncovering dynamic genome organization by passive observation and active manipulation	Institut Curie (Paris) and MIT
15:00 - 15:30	Kevin Tartour: In vivo chromatin signatures at nucleosome inhibitory energy barriers (NIEBs) predicted by physical model	Laboratoire de Physique de l'ENS, Lyon
15:30 - 16:00	Yasmina Djeghmoum: Recombination-transcription conflicts: from DNA joint molecule metabolism to repair outcome	LBMC, Lyon
16:00 - 16:45	** Coffee Break **	
Afternoon session 2		
16:45 - 17:15	José Gil: Characterizing the 3D organization of holocentric chromosomes in <i>Bombyx mori</i>	Institut Curie, Paris
17:15 - 17:45	Annia Carré Simon: Genome stability: Interplay between DSB, chromatin mobility and SMC complexes	Institut de Recherche de l'Hôpital Saint-Louis, Paris
20:00 - 22:00	** Dinner ** "Brasserie Georges", 30 Cr de Verdun Perrache, 69002 Lyon	

Day 3: Friday June 24, 2022

Affiliation

Morning session 1

9:30 - 10:00 **Kiran Padmanabhan:** Chromatin state dynamics and regulation of circadian clock function IGFL, Lyon

10:00 - 10:30 **Jean-Michel Arbona:** Origin of DNA replication: positioning and strength, from bulk to single cell experiment LBMC, Lyon

10:30 - 11:00 **Jérémy Lebreton:** Evidence that Rrp6/EXOSC10 is involved in condensin-mediated chromosome segregation in fission yeast LBMC, Lyon

11:00 - 11:30 **** Coffee Break ****

Morning session 2

11:30 - 12:00 **Maiwenn Pineau:** What is a supercoiling-sensitive gene? Insights from topoisomerase I inhibition in *Dickeya dadanti* MAP, INSA Lyon

12:00 - 12:30

12:30 - 12:45 ***Closing Remarks***

12:45 **** Lunch (buffet)****