



## 2<sup>nd</sup> 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	<b>** Lunch (buffet) **</b>	
<b>Welcome session</b>		
13:45 - 14:00	<ul style="list-style-type: none"> <li>▪ Cedric Vaillant</li> <li>▪ Elham Ghobadpour</li> </ul>	
<b>Afternoon session 1</b>		
14:00 - 14:30	<b>Aurèle Piazza:</b> Role of spatial chromatin organization in recombinational DNA repair and genomic instability	LBMC, Lyon
14:30 - 15:00	<b>Ivan Junier:</b> A minimal in vivo model to quantify the interplay between transcription and DNA supercoiling	TIMC Grenoble
15:00 - 15:30	<b>Hossein Salari:</b> Transcription-dependent genome folding	LBMC, Lyon
15:30 - 16:15	<b>** Coffee Break **</b>	
<b>Afternoon session 2</b>		
16:15 - 14:45	<b>Fabian Erdel:</b> Strategies to detect phase separation in cells	CBI, Toulouse
14:45 - 17:15	<b>Hungyo Kharerin:</b> Kinetic modeling of nucleosome dynamics on a chromatin fibre	Laboratoire de Physique de l'ENS, Lyon
17:15 - 17:45	<b>Jiachuan Bai:</b> Enhancing single molecule localization microscopy with deep learning	Institut Pasteur, Paris
<b>** Drinks **</b>		
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	
<b>Morning session 1</b>		
9:30 - 10:00	<b>Marc Joyeux:</b> Coarse-grained modelling of the bacterial nucleoid	LIPHY, Grenoble
10:00 - 10:30	<b>Angelo Rosa:</b> Bayesian inference on a 3D polymer model for epigenetic data	SISSA, Trieste
10:30 - 11:00	<b>Daniel Jost:</b> 3DGenBench: A web-server to benchmark computational models for 3D genomics	LBMC, Lyon
11:00 - 11:30	** Group Photo and Coffee Break **	
<b>Morning session 2</b>		
11:30 - 12:00	<b>Mikhail Eltsov:</b> Cryo-electron tomography and deep learning based image denoising reveal chromatin landscape at the nanometer resolution in situ	IGBMC, Strasbourg
12:00 - 12:30	<b>Pascal Bernard:</b> 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
<b>Afternoon session 1</b>		
14:30 - 15:00	<b>Simon B Grosse-Holz:</b> Uncovering dynamic genome organization by passive observation and active manipulation	Institut Curie (Paris) and MIT
15:00 - 15:30	<b>Kevin Tartour:</b> 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	<b>Yasmina Djeghmoum:</b> Recombination-transcription conflicts: from DNA joint molecule metabolism to repair outcome	LBMC, Lyon
16:00 - 16:45	** Coffee Break **	
<b>Afternoon session 2</b>		
16:45 - 17:15	<b>José Gil:</b> Characterizing the 3D organization of holocentric chromosomes in <i>Bombyx mori</i>	Institut Curie, Paris
17:15 - 17:45	<b>Annia Carré Simon:</b> 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
<b>Morning session 1</b>		
9:30 - 10:00	<b>Kiran Padmanabhan:</b> Chromatin state dynamics and regulation of circadian clock function	IGFL, Lyon
10:00 - 10:30	<b>Jean-Michel Arbona:</b> TBA	LBMC, Lyon
10:30 - 11:00	<b>Jérémy Lebreton:</b> Evidence that Rrp6/EXOSC10 is involved in condensin-mediated chromosome segregation in fission yeast	LBMC, Lyon
11:00 - 11:30	<b>** Coffee Break **</b>	
<b>Morning session 2</b>		
11:30 - 12:00	<b>Maiwenn Pineau:</b> What is a supercoiling-sensitive gene? Insights from topoisomerase I inhibition in <i>Dickeya dadanti</i>	MAP, INSA Lyon
12:00 - 12:30		
12:30 - 12:45	<b>Closing Remarks</b>	
12:45	<b>** Lunch (buffet)**</b>	