

Axis 2 Workshop “Genome Dynamics and Expression”

Toulouse, September 30-October 1, 2024

13h00	Welcome coffee
14h00	Welcome address
14h10	Session 1: Omics
14h10	Lecture: Multiplexed RNA and DNA imaging in tissues reveals links between chromatin organization and disease Marcello NOLLMANN , Centre de Biologie Structurale (CBS), Montpellier
14h50	ESPRESSO: Spatiotemporal omics based on organelle phenotyping Lorenzo SCIPIONI , Toulouse Cancer Research Center (CRCT), Toulouse
15h10	The hidden depths of single cell sequencing Denis DUPUY , ARNA & IECB, Bordeaux
15h30	Independent Component Analysis of transcription and translation data to investigate the interplay of tumour and stromal phenotypes in Pancreatic Cancer Jacobo SOLORZANO , Toulouse Cancer Research Center (CRCT), Toulouse
15h45	Coffee & posters' session
16h45	Session 2: DNA Damage & Genomic Instability
16h45 <i>Emergence GSO</i>	Impact of blocked Top1 cleavage complexes on genomic stability during the cell cycle Benjamin PARDO , Institute of Human Genetics (IGH), Montpellier
17h05	Cytoplasmic RNA:DNA hybrids as mediators of DNA-double strand break response Ikrame LAZAR , Center for Integrative Biology (CBI), Toulouse
17h25 <i>Emergence GSO</i>	Activation of the Notch pathway in response to DNA damage: a new route to counter Carboplatin resistance in the treatment of non-small cell lung carcinoma Hélène TOURRIERE , Montpellier Cancer Research Institute (IRCM), Montpellier
17h45 <i>Mobilité GSO</i>	Targeting DNA methylation in cancers by selective dissociation of their protein complexes Jean-Maxime BESSON , Institut des Biomolécules Max Mousseron (IBMM), Montpellier
18h00	Role and mechanism of NELF-mediated pausing of RNA polymerase II in genomic instability Olivier CUVIER , Center for Integrative Biology (CBI), Toulouse
18h20- 19h00	Posters & End of day 1

9h00

Session 3: RNA & Cancer

09h00

Lecture: G-quadruplexes in cancer

Jean-Louis MERGNY, Laboratoire d'Optique et Biosciences, Ecole Polytechnique, Paris

09h40

Uncovering cell fate decisions by integrating transcription factors into RNA-regulatory networks
Julie CARNESECCHI, Institute of Molecular Genetics of Montpellier (IGMM), Montpellier

10h00

Exploring how physical intimacy between translation apparatus and mRNA silencing machineries shapes the translato

Clément CHAPAT, Center for Integrative Biology (CBI), Toulouse

10h20

Implementation and application of a p53 prionization model

Mathilde KADOUCH, Institut de Chimie & Biologie des Membranes & des Nano-objets (CBMN), Pessac

10h35

Coffee & posters' session

11h30

Session 4: Cancer models, beyond mammals

11h30

Chromatin complexes and Metabolic control of self-identity through genetic screens in Drosophila
Patrick JOUANDIN, Montpellier Cancer Research Institute (IRCM), Montpellier

11h50

Non-canonical roles of the Polycomb PRC1 complex in its tumor suppressor function
Ana-Maria POPMIHAYLOVA, Institute of Human Genetics (IGH), Montpellier

12h05

Studies of sexual disparities in cancer cachexia in Drosophila
Alexia RIVERO, Center for Integrative Biology (CBI), Toulouse

12h20
Emergence GSO

Chromosome Rearrangement and endoreplication in Tetrahymena
Kazufumi MOCHIZUKI, Institute of Human Genetics (IGH), Montpellier

12h40

Cocktail lunch

14h15

Session 5: Cell cycle and chromosomal organisation

14h15

Lecture: Gene-specific RNA homeostasis revealed by perturbation of the NuA4/Tip60 acetyltransferase complex

Manuel MENDOZA, Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), Strasbourg

14h55

Condensin positioning at telomeres by shelterin proteins drives sister-telomere disjunction in anaphase

Sylvie TOURNIER, Center for Integrative Biology (CBI), Toulouse

15h15

Non-coding RNAs in the control of imprinted chromosomal domains
Robert FEIL, Institute of Molecular Genetics of Montpellier (IGMM), Montpellier

15h35

The roles of cohesin and transcription on genome organization in yeast
Christophe CHAPARD, Center for Integrative Biology (CBI), Toulouse

16h00

End of the workshop