

Axis 2 Workshop “Genome Dynamics and Cancer”

Toulouse, September 15-16, 2022

13h00	Welcome coffee
14h00	Welcome address
14h10	Session 1 - DNA Replication, Recombination and Repair <i>Chairs: Gaëlle LEGUBE & Jenny WU</i>
14h10 30+10	Lecture: Studying eukaryotic DNA replication with nanopore sequencing Olivier HYRIEN , Institut de Biologie de l'Ecole Normale Supérieure (IBENS), Paris
14h50 15+5	Genome-wide mapping of 5'OH-containing DNA lesions Aline MARNEF , CBI, Toulouse
15h10 15+5	Nearly all multiple-case breast cancer families with HRD tumors are detected by clinical gene panels Thibaut MATIS , Institut Bergonié, Bordeaux
15h30 15+5	GNL3 regulates replication origin firing and protects stalled replication forks Cyril RIBEYRE , IGH, Montpellier
15h50 15+5	Pol theta-dependent compromised DNA repair fidelity in embryonic stem cells Ophélie MARTIN , University of Sussex, Brighton
16h10	Coffee & posters' session
17h00	Session 2 - RNA & translation <i>Chairs: Olivier GADAL & Hervé SEITZ</i>
17h00 20+5	Molecular mechanisms of RNA polymerase III transcription termination Odil PORRUA , IGMM, Montpellier
17h25 15+5	RNA G-quadruplex couples translation to autophagy Anne CAMMAS , CRCT, Toulouse
17h45 15+5	Post-transcriptional heterochromatin silencing through RNA decay and its physiological implications Anna MATTOUT , CBI, Toulouse
18h05 15+5	RNA binding proteins modulate the splicing programs required for DNA damage detection and repair during B cell development Manuel Daniel DIAZ-MUNOZ , Infinity, Toulouse
18h30-19h15	Apéro posters & End of day 1

9h00

Session 3 - Gene expression & Epigenetics

Chairs: Vera PANCALDI & Eric JULIEN

09h00
30+10

Lecture: Epigenetic and transcriptomic signatures in AML
Estelle DUPREZ, Research Cancer Centre of Marseille (CRCM)

09h40 Arginine citrullination and cellular interfaces in transcription regulation
15+5 **Priyanka SHARMA**, IRCM, Montpellier

10h00 G-quadruplexes involvement in non-canonical mammalian genome insulation and cancer
15+5 **Nezih KARASU**, IGMM, Montpellier

10h20 Identification and characterization of the retrotransposons reactivated upon loss of the chromatin associated proteins HP1: impact on gene expression and liver tumorigenesis
15+5 **Florence CAMMAS**, IRCM, Montpellier

10h40

Coffee & posters session

11h30

Session 4 - 3D Genome organization & beyond

Chair: Derek McCUSKER

11h30 Identifying new regulators of cell cycle progression through experimental evolution
15+5 **Damien COUDREUSE**, IBGC, Bordeaux

11h50 Evidence of low levels of nanocompaction at Heterochromatin in living embryonic stem cell
15+5 **David LLERES**, IGMM, Montpellier

12h10 Chromatin as a biomolecular condensate
20+5 **Fabian ERDEL**, CBI, Toulouse

12h40

Cocktail lunch

14h15

Session 5 - 3D Genome organization and nuclear architecture

Chairs: Jean-Christophe ANDRAU & Eric PINAUD

14h15
30+10

Lecture: (De)regulation of T-cell genome organization and (auto)immunity
Charalampos (Babis) SPILIANAKIS, Biology-University of Crete, IMBB-FORTH, Heraklion

14h55 Nuclear pores in global chromatin organization
20+5 **Charlène BOUMENDIL**, IGH, Montpellier

15h20 Very long intergenic non-coding RNAs as potential architectural players of chromatin 3D reorganization during oncogene-induced senescence
15+5 **Julien OUVRARD**, CBI, Toulouse

15h40 Creating awareness of the existence, the importance, and the manipulation opportunities of nuclear Lipid Droplets in genome stability
15+5 **Maria MORIEL-CARRETERO**, CRBM, Montpellier

16h00

End of the workshop