

EpiNantes 2024

Program

Tuesday, September 24, 2024 – Wednesday September 25, 2024

IRS UN, 8 quai Moncousu, Nantes

Day one _ September 24, 2024

9:20 – 9:50 – Reception

9:50 – 10:00 - Opening

Keynote Lecture

10:00 – 11:00 – Mathieu Lupien, Senior scientist, Princess Margaret Cancer Centre, University Health Network, Professor University of Toronto, Canada

- *Decoding intra-tumour heterogeneity from chromatin variants*

SESSION 1 - Epigenetic players of cancer gene regulation

11:00 - 11:30 - Pierre-Antoine Defossez, Group leader, CNRS, Research Scientist, Epigenetics and cell fate Lab, Paris, France

- *Dynamics and interpretation of DNA methylation in mammals*

11:30 – 11:45 Short oral communication

Fabien Foucher, INSERM, UMR 1317, Nutrition, Métabolisme et Cancer, University of Rennes, France

- *Impact of histone modifications and DNA methylation on cell plasticity and tumor heterogeneity of human hepatocellular carcinomas*

11:45 - 11:55 – Clément Proux, Active Motif sponsor talk

11:55 - 12:05 – Jessica Apulei, Diagenode sponsor talk

12:05 - 12:10 – Société Française du Cancer sponsor slide

12:10 - 1:15 - Lunch break and meet the speakers

1:15 - 1:45 – Posters session

1:45 - 2:15 - Charlotte Proudhon, INSERM Investigator, Group leader, IRSET, Research Institute for Environmental and Occupational Health, Rennes, France

- *Non-invasive multi-cancer detection using DNA hypomethylation of LINE-1 retrotransposons*

2:15 - 2:45 -Short oral communications

Silvia Anna Ciafrè, PhD, Dept. of Biomedicine and Prevention, University of Rome Tor Vergata, via Montpellier, Rome, Italy

- *MEOX2 interaction with PRC2 and nuclear lamina components in glioblastoma stem cells suggests its possible role in the modulation of chromatin state*

Joséphine Briand, PhD, Laboratoire Sensibilité des Cancers aux Traitements (SCaT), Institut de Cancérologie de l'Ouest, Site d'Angers, France

- *A breast-on-chip to link oxidative stress-mediated epigenetic changes in adipose tissue and breast cancer risk*

2:45 - 2:55 – Emeric Roux, Stilla sponsor talk

SESSION 2 - When Epigenetics met Chemistry?

2:55 - 3:25 - Marie Lopez, Institut des biomolécules Max Mousseron (IBMM), CNRS-Univ. Montpellier-ENSCM UMR5247, France

- *Multifunctional chemical compounds to target epigenetic mechanisms in cancer*

3:25 - 3:40 – Short oral communication

Jules Durand, Univ. Bourgogne Franche-Comté, INSERM, EFS BFC, UMR1098, Interactions Hôte-Greffon-Tumeur/Ingénierie Cellulaire et Génique, Besançon, France

- *Identification of novel partner proteins of EZH2 and KDM6B in Epithelial to Mesenchymal Transition*

3:40 - 4:10 – Coffee break and posters session

4:10 - 4:40 - Elena Bochenkova, Research Intern at Department of Biochemistry, University of Zurich, Switzerland

- *Targeting METTL3 as a novel therapeutic strategy for acute myeloid leukemia*

4:40 - 4:55 – Short oral communication

Jean-Maxime Besson, Institut des biomolécules Max Mousseron (IBMM), CNRS-Univ. Montpellier-ENSCM UMR5247, France

- *Targeting DNA methylation in cancers by selective dissociation of their protein complexes*

SESSION 3 - Making sequencing reads readable

4:55 - 5:25 - Luca Cozzuto, Senior Bioinformatician at the Bioinformatics Technology Unit, Barcelona, Spain

- *MasterOfPores3: a suite of pipelines for nanopore sequencing data*

5:25 - 5:40 - Short oral communication

Slim Karkar, PhD, University of Bordeaux, France

- *Decomics, a user-friendly application for unsupervised cell type deconvolution and biological interpretation from tumor bulk methylome or transcriptomic data*

Rendez-vous at 8pm at "Lieu Unique" for Gala Dinner (an option at the time of registration)

Day Two _ September 25, 2024

Keynote Lecture

9:00 - 10:00 – Maite Huarte, Director of DNA and RNA Medicine Division and Head of the Noncoding RNA and Cancer Genome Lab at CIMA, Univ. of Navarra, Pamplona, Spain

- *Noncoding RNA roles in the coordination of DNA replication and stress signaling*

SESSION 4 - Epiregulation by non coding RNAs in cancer

10:00 - 10:30 - Eleonora Leucci, Professor at KU Leuven, Belgium

- *Contribution of lncRNAs to the generation of drug-tolerant persister cells*

10:30 - 10:45 - Short oral communication

Thomas Papazyan, Medical oncology, Centre Hospitalier Universitaire Nantes, Inserm UMR 1307, CNRS UMR 6075, Université d'Angers, CRCI2NA, Nantes, France

- *Identification of the lncRNAs involved in resistance to KRAS G12C inhibitors in lung cancer*

10:45 - 11:15 - Coffee break and posters session

11:15 - 11:45 - Rory Johnson, Associate professor, University College of Dublin, Ireland

- *Non-protein coding RNA drivers of tumorigenesis*

11:45 - 12:15 - Isabel Barragan, Ph.D. Scientist and Group Leader of Translational Research in Cancer Immunotherapy and Epigenetics in Research Institute of Malaga and BIONAND platform and Group of Pharmacoepigenetics at Karolinska Institutet, Stockholm, Sweden

- *Non coding RNA regulation of the clinical response to Immune Checkpoint Blockade*

12:15 - 12:25 – Paola Vecino, MedChemExpress sponsor talk

12:25 - 1:50 - Lunch break and meet the speakers

1:50 - 2:20 Antonin Morillon, Research scientist, Group leader at Institut Curie, CNRS, Sorbonne University, PSL, UMR3244, Paris

- *Dark genome and cancer*

2:20 - 2:35 - Short oral communication

Yuna Blum, Univ Rennes, CNRS, INSERM, IGDR (Institut de Génétique et Développement de Rennes) - UMR 6290, ERL U1305, Equipe Labellisée Ligue Nationale contre le Cancer, Rennes, France

- *Identification of sponge mechanisms involving circular RNAs associated to cutaneous melanoma treatment resistance*

SESSION 5 - Epitranscriptomics and Cancer

2:35 - 3:05 - Sandra Blanco, Research Scientist, CSIC, Head of Epitranscriptomics and Cancer Lab, Salamanca, Spain

- *Targeting tRNA methylases in cancer*

3:05 - 3:20 - Short oral communication

Jana Jeschke, Applied Cancer Epigenomics and Epitranscriptomics Group, Institut Jules Bordet, Brussels, Belgium

- *Mining the human breast cancer epitranscriptome: opportunities for personalized medicine*

3:20 - 3:45 - Coffee break

3:45 - 4:15 - Francesco Nicassio, Center Coordinator - Senior Researcher Tenured, Center for Genomic Science of IIT@SEMM (CGS), Milan, Italy

- *Cellular and molecular heterogeneity in human cancer*

4:15 - 4:45 - Short oral communications

Alexandre Gaspar Maia, PhD, Laboratory of Functional Epigenomics, Mayo Clinic, Rochester, USA

- *Comprehensive single cell analysis of the epigenome of ovarian cancer*

Alessandro Fatica, Department of Biology and Biotechnologies "Charles Darwin", Sapienza University of Rome, Italy

- *Enhancing sensitivity of Triple Negative Breast Cancer to DNA Damaging Therapy through chemical inhibition of the m6A methyltransferase METTL3*

4:45 - 5:00- Concluding remarks and prizes for young researchers

End of the congress