



La science pour la santé
From science to health

Inserm Workshop 278

Epigénétique en santé : le point sur les maladies rares
Epigenetics in health: a focus on rare diseases

2-4 Avril 2024 / **April 2-4, 2024** ■ Bordeaux, France

Mardi 2 Avril 2024 ■ **Tuesday April, 2 2024**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
SESSION I	EPIGENETIC PROCESSES: STATE OF THE ART
16:15 - 17:00 Videoconference	The Genetics and Epigenetics of Rett Syndrome Adrian Bird (University of Edinburgh, Edimbourg, UK)
17:00 - 17:30	Coffee break
17:30 - 18:15	X chromosome inactivation, a paradigm for epigenetic regulations, in health and diseases Claire Rougeulle (Epigénétique et Destin Cellulaire, CNRS, Paris Diderot, Paris, France)
18:15 - 19:00	Transposable elements as drivers of epigenetic regulation Deborah Bourc'his (Curie Institute, Paris, France)
19:30	Dinner

Mercredi 3 Avril 2024 ■ **Wednesday April, 3 2024**

06:30 - 08:30	Breakfast
SESSION II	EPIGENETICS IN HEALTH
08:30 - 09:15	Energy metabolism and epigenetics: a focus on developmental origins of health and disease Anne Gabory (INRAE, Paris Saclay, France)
09:15 - 10:00	Epigenetic liquid biopsy Yuval Dor (Institute for Biomedical Research, Jerusalem, Israel)
10:00 - 10:30	Coffee break
10:30 - 11:15	Epigenomics of nerve sheath sarcomas associated with neurofibromatosis type 1 Eric Pasmant (Institut Cochin, Paris, France)
11:15 - 12:00	The breaking and reshaping of regulatory landscapes in development and disease Michael Robson (Max Planck Institute for Molecular Genetics, Berlin, Allemagne)
12:00 - 14:00	Lunch

SESSION III	EPIGENETICS AND RARE DISEASES
14:00 - 14:45	Titre de la présentation Michael S. Kobor (BC Children's Hospital, Vancouver, Canada)
14:45 - 15:30	Epigenetic strategies for the diagnosis of rare diseases Maria J. Barrero (Spanish National Institute of Health Carlos III, Madrid, Spain)
15:30 - 16:00	Coffee Break
16:00 - 16:45	Addressing Challenges and Limitations in Epigsignature for Rare Diseases (computational and statistical considerations) Matthieu DeFrance (Interuniversity Institute of Bioinformatics in Brussels, Belgium)
16:45 - 17:30	Genome editing for correction of pathogenic variants in a rare chromatin-related disease Maria Matarazzo (Institute of Genetics and Biophysics-CNR, Naples, Italy)
17:30 - 18:15	Genome dysfunctions captured by chromatin solubility Chiara Lanzuolo (National Institute of Molecular Genetics (INGM) and CNR Institute of Biomedical Technologies (ITB-CNR), Milan, Italy)
19:30 - 20:15	Cocktail
20:15	Dinner

Jeudi 4 Avril 2024 ■ **Thursday April, 4 2024**

06:30 - 08:30	Breakfast
SESSION IV	EPIIDRUGS ET DRUG DESIGN
08:30 - 09:15	Druggable epigenome in cancer: challenges and limitations Maria Berdasco (Cancer Epigenetics and Biology Program (PEBC), Bellvitge Biomedical Research Institute (IDIBELL), Barcelona, Spain)
09:15 - 10:00	AntiDOTes for diseases: Chemistry and Biology match together to tackle Epigenetics Paola Arimondo (Institut Pasteur, Paris, France)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Decoding the unseen: Using protein interaction to guide AI-designed peptide epidrugs without structural blueprints Kyle Biggar (Carleton University, Ottawa, Canada)
11:15 - 12:00	Closing remarks and round Table
12:00 - 14:00	Lunch
14:00	Departure