

Ph D school in Biotechnology
WINTER SCHOOL ON BIOTECHNOLOGY -2020

Epigenetics: living organisms and environment cross-talk

20-23 Gennaio 2019
Aula A3 Polo Biotecnologie

Monday, January 20, 2020

Chair: Stefano Bruscoli - Efisio Puxeddu

Medical Epigenetics, Environment and health

9:00 – 9:30		OPENING
9:30 – 11:00	Katrina Podsypanina	Chromatin Dynamics in Cancer: Epigenetic parameters and cellular fate
11:00 – 11:30		COFFEE BREAK
11:30 – 12:30	Oxana Bereshchenko	How hematopoietic stem cells withstand the environmental stress: role of glucocorticoid induced leucine zipper (GILZ)
12:30 – 13:30	Marianna Lucafò	Glucocorticoid pharmacoepigenetics in pediatric patients
13:30 – 14:30		LUNCH
14:30 – 15:30	Pierluigi Tenca	Tapestri Platform – Targeted Single Cells DNA Sequencing in Cancer Genomics Characterization
15:30 – 15:50	Sara Flamini	Glucocorticoid induced leucine zipper (GILZ) regulates liver fibrosis in mice
15:50– 16:10	Viana de Barros Antonio	Role of glucocorticoid-induced leucine zipper in normal and pre-leukemic hematopoietic stem cell functions
16:10 – 16:30	Davide Sala	Novel combined gene/cell therapy strategies to provide full rescue of the Sandhoff pathological phenotype
16:30 - 16:50	Giulio Capponi	Comparison between methods for measuring mechanical properties of single adherent cells
16:50 - 17:10	Sabata Martino	“Nanomaterials” introducing a scientific journal

Tuesday, January 21, 2020

Chair: Loredana Latterini

Smart materials for epigenetics

9:00 – 10:30	Iva Pashkuleva	Design of glycome-inspired bioinspired materials
10:30 – 11:00		COFFEE BREAK
11:00 – 12:00	Maria Rosa Antognazza	Cell Stimulation by Polymer Photoexcitation (CSPP): a new tool, many open issues
12:00 – 13:00	Carla Ferreri	Fatty acid structures and lipidomics: from science innovation to health market application
13:00 – 14:30		LUNCH
14:30 – 15:30	Paolo Capelli	Technologies of cryoconservation of biological materials
15:30 – 15:50	Niki Tombolesi	Probing the biochemistry of heart and kidney tissues using Raman and FTIR micro-spectroscopic techniques
15:50– 16:10	Giulia Quaglia	New eco-friendly strategies for the synthesis of antimicrobial silver nanoparticles
16:10 – 16:30	Martina Alunni Cardinali	How Brillouin and Raman micro-spectroscopy can help to characterize bone mechanical and chemical properties
16:30 - 16:50	Gabriele Magara	Eco-friendly versus amended antifouling biocides for environmental safety
16:50 - 17:10	Alessandra Riccio	<i>In silico</i> and biophysical studies to unravel the molecular basis for PD-1/PD-L1 interaction inhibition

Wednesday, January 22, 2020

Chair: Sabata Martino

Molecular basis of epigenetics

9:00 – 10:30	Sirio Dupont	ECM stiffness mechanotransduction: how the physical properties of the microenvironment control cell behavior
10:30 – 11:00		COFFEE BREAK
11:00 – 12:00	Lucia Catani	Myeloproliferative Neoplasms: a model of study of the molecular and microenvironmental regulation
12:00 – 13:00	Emidio Albertini	Investigating DNA methylation in plant response to developmental cues and environmental stresses
13:00 – 14:30		LUNCH
14:30 – 15:30	Francesco Morena	Integrated Computational Analysis Highlights unique miRNA Signatures in the Subventricular Zone and Striatum of GM2 Gangliosidosis Animal Models.
15:30 – 15:50	Angela Conti	Homoplasy: a possible phylogenetic signal to delimit species
15:50 – 16:10	Federica Delo	Drug-induced phospholipidosis prompts the release of extracellular vesicles carrying autophagy- associated markers: new evidence of a general mechanism of secretion driven by lysosomal impairment
16:10 – 16:30	Chiara Suvieri	A cross-talk between blood-cell neuroplasticity-related genes and environmental enrichment in working dogs
16:30 – 16:50	Anair Graciela Lema Fernandez	A distinct epigenetic program underlies the 1;7 translocation in myelodysplastic syndromes
16:50 – 17:10		Flash Presentations of students (I)

Thursday, January 23, 2020

Chair: Gianluigi Cardinali

9:00 – 10:30	Flavia Marcacci	Empirism, reductionism, realism: approaches for science in the epigenetic scenario
10:30 – 11:00		COFFEE BREAK
11:00 – 12:00	Duccio Cavalieri	Epigenetics and the microbiome on the gut brain axis.
12:00 – 13:00		Flash Presentations of students (II)
13:00 – 14:00		LUNCH

Open Day “Biotechnology and Society”

Thursday, January 23, 2020

ore 17:00

Sala dei Notari

Saluti e apertura lavori

Sindaco di Perugia

Magnifico Rettore Università degli Studi di Perugia

Relatori

Duccio Cavalieri
Luca Gammaitoni
Flavia Marcacci
Assuntina Morresi
Tomasz Trafny

Moderatore

Gianluigi Cardinali

Consegna premi messi in palio da Nanomaterials e Zanichelli.