



Dottorato in Biotecnologie

Università degli Studi di Perugia

Winter School on Biotechnology

5th Edition

Prizes will be awarded for the best oral and best poster presentations

Polo Didattico di Biotecnologie – via del Giochetto, Aula A3

Monday, January 14, 2019

Mechanobiology - Chair: Loredana Latterini

■ LESSONS

■ PRESENTATIONS

9:00 – 9:30		OPENING
9:30 – 11:00	Aldo Ferrari	Engineering approaches to the estimation of cellular forces
11:00 – 11:30		COFFEE BREAK
11:30 – 13:00	Mauro Dalla Serra	More than just molecular drills: how Pore-Forming Proteins impair membrane permeability and structure
13:00 – 14:00		LUNCH
14:00 – 15:00	Sabata Martino	Stem cell fate: a matter of mechanobiology
15:00 – 16:00	Silvia Caponi	Optical spectroscopy to measure biomechanics
16:00 – 16:30	Marta Gambucci	Spectroscopic properties of DNA-AgNCs and their interactions with biomolecules
16:30 – 17:00	Martina Alunni Cardinali	Chemical and mechanical characterization of human bone and cartilage tissue properties by Brillouin and Raman micro-spectroscopy.

Tuesday, January 15, 2019

Governance - Chair: Sabata Martino

9:00 – 10:30	Alessandro Nanni Costa	Transplant Network Governance by Competent Authority
10:30 – 11:00		COFFEE BREAK
11:00 – 12:30	Carlo Tascini	Daily government of research and of the hospital ward
12:30 – 13:30		LUNCH
13:30 – 14:30	Assunta Morresi	Ethical and managerial aspects of Biotechnology
14:30 – 15:00	Enrico Floridi (Steroglass)	The latest innovation in mini-fermentors”
15:00 – 15:30	Sabrina Adorisio	The Hexane Fraction of <i>Bursera microphylla</i> A Gray Induces p21-Mediated Antiproliferative and Proapoptotic Effects in Human Cancer-Derived Cell Lines.
15:30 – 16:00	Eva Costanzi	The Importance of Being Lipid in Extracellular Vesicles
16:00 – 16:30	Annita Montepeloso	Understanding and challenging the contribution of HSCs to brain myeloid cell turnover
16:00 – 16:30	Davide Sala	Novel combined gene/cell therapy strategies to provide full rescue of the Sandhoff pathological phenotype

Wednesday, January 16, 2019

Sustainability - Chair: Gianluigi Cardinali

9:00 – 10:30	Salvatore Ceccarelli	Evolutionary-participatory plant breeding as a tool for an effective sustainability
10:30 – 11:00		COFFEE BREAK
11:00 – 12:00	Michele Bruni	New approaches in the management of food and agriculture in developing countries
12:00 – 13:00	Fenton Beed	Governance in Agriculture for food and climate management
13:00 – 14:00		LUNCH and Poster Session
14:00 – 15:00	Luciano Concezzi	Defense and exploitation of the Biodiversity of agricultural interest as a tool for an effective sustainability.
15:00 – 16:00	Assunta Marrocchi	From bio-waste to wealth using green chemistry: engineering a more sustainable society
16:00 – 16:30	Mattia Acito	Biological activity of artichoke formulations in HT-29 cell line
16:30 – 17:00	Elisa Ceci	Occurance and diversity of legionella contaminations in building's plumbings and cooling towers

Thursday, January 17, 2019

Pharma - Chair: Stefano Bruscoli

9:00 – 10:30	Elisabetta Cerbai	Application of iPS cell technology for cardiac disease modeling
10:30 – 11:00		COFFEE BREAK
11:00 – 12:00	Paolo Sportoletti	Molecular targeted therapy in hematological malignancies: from basic research to clinical practice.
12:00 – 13:00	UrbaneK Konrad	Stem cells as a therapeutic tool and target
13:00 – 14:00		LUNCH
14:00 – 14:30	Loreta D'Amico (Microtech)	Next Generation Sequencing: Implications in Personalized Medicine and Pharmacogenomics
14:30 – 15:00	Pierluigi Tenca (Diatech LabLine)	SMARTer NGS solutions for Single-Cell RNA- and DNA-Seq
15:00 – 15:30	Sara Flamini	The role of Glucocorticoid-induced leucine zipper (GILZ) in a mouse model of heart failure
15:30 – 16:00	Vincenzo Maria Perriello	Dual targeting strategy of acute myeloid leukemia by engineered cytokine-induced killer cells coexpressing an interleukin 3 chimeric antigen receptor (CAR) and an anti-CD33 costimulatory receptor
16:00 – 16:30	Roberta Ranieri	High-throughput compound screening approach to identify drugs targeting the acute myeloid leukemia (AML) entity harbouring NPM1 gene mutation
16:30 – 17:00	Marzia Bini	Unconventional functionalized layered materials with anti-infective and bioactive properties for orthopedic implants

Friday, January 18, 2019

5:00 p.m. – Sala dei Notari – Tavola rotonda su:

[Bioteconologie, il futuro è qui: come governarlo?](#)

Intervengono: **Luca Barberini, Mario Melazzini e Alessandro Nanni Costa**

Al termine: Premiazioni per la migliore presentazione orale e il miglior poster

Affiliations

Luca Barberini	Assessore alla Coesione Sociale e Welfare della Regione Umbria
Fenton Beed	FAO
Michele Bruni	InspiraFarms co-founder and technical director
Silvia Caponi	CNR - Istituto Officina dei Materiali - IOM Sede di Perugia.
Salvatore Ceccarelli	Already Coordinator of the International Center for Agricultural Research in the Dry Areas. Already Professor di Agricultural Genetics at UNIPG
Elisabetta Cerbai	Dept. of Neurosciences, Psychology, Drug Research and Child Health, Center for Molecular Medicine, Firenze
Luciano Concezzi	Parco Tecnologico Agroalimentare dell'Umbria
Mauro Dalla Serra	National Research Council of Italy - Institute of Biophysics & Bruno Kessler Foundation, Trento.
Aldo Ferrari	Professor and Head of Laboratory of Thermodynamics in Emerging Technologies, Department of Mechanical and Process Engineering, ETH Zurich, CH-8092 Zürich, Switzerland
Urbanek Konrad	Department of Experimental Medicine, Section of Pharmacology, University of Campania Luigi Vanvitelli, Naples, Italy.
Sabata Martino	Department of Chemistry, Biology and Biotechnologies, University of Perugia
Assunta Morresi	Comitato Nazionale di Bioetica – Department of Chemistry, Biology and Biotechnologies, University of Perugia
Assunta Marrocchi	Department of Chemistry, Biology and Biotechnologies, University of Perugia
Mario Melazzini	Direttore Scientifico Centrale IRCSS Istituti Clinici Scientifici Maugeri SPA-SB
Alessandro Nanni Costa	Director of the National Transplant Center
Paolo Sportoletti	Hematology and Clinical Immunology, University of Perugia, Perugia, Italy
Carlo Tascini	Primario Malattie Infettive Ospedale Cotugno - Napoli

Con il contributo di:



Scientific Committee: Fausto Elisei
Carla Emiliani
Carlo Riccardi

Organizing Committee: Stefano Bruscoli
Gianluigi Cardinali
Daniele Fioretto
Loredana Latterini
Sabata Martino
Assunta Morresi
Efisio Puxeddu