

Sunday, 11.09.2016

18:00
Registration

19:00
Welcome party
Sala Lanza, Orto Botanico Palermo

Monday, 12.09.2016

09:15
Welcome and Opening remarks

🔗 Microbial Biotechnology

Chairman: *A.M. Puglia*

09:30 – 10:00
Eric Kubler
Fighting antibiotics resistance

10:00 – 10:30
Fabian Fischer
Antibacterial nano-pillar surface testing with a microbial fuel cell"

10:30
Coffee break

11:00 – 11:30
Giuseppe Gallo
Improvement of antibiotic production yield in *Streptomyces coelicolor* by immobilized-cell cultivations by using PCL- and PLA-based membranes

11:30 – 12:00
Claudia Ralser
Production of allergens and vaccines in microalgal systems

12:30
Lunch

14:30 – 15:00
Luca Dapra
Genetic methods for the identifications of microorganisms

15:00 – 15:30
Roberto Spurio
Shall we share some silica? Diatoms, oligonucleotide probes and glass DNA chips

🔗 Drug Design and Delivery

Chairman: *D. Gygax*

15:30 – 16:00
Vito Calderone
X-ray protein crystallography: applications and examples in drug design

16:00 – 16:30
Simona Campora
Nanoparticles for targeted and controlled drug delivery

16:30
coffee break

17:00 – 17:30
Vera Luginbühl
Photodynamic diagnosis and therapy of malignant brain tumors with 5-aminolevulinic acid

17:30 – 18:00
Francesca D'Anna
Imidazolium salts: a journey from ionic liquids to bioactive materials

Tuesday, 13.09.2016

🔗 Novel approaches and tools in Biotechnology

Chairman: *I.Di Liegro*

09:00 – 9:30
Daniel Gygax
Research at the interface to industry in the area of in-vitro diagnostics

09:30 – 10:00
Salvatore Di Girolamo
Development of novel Surtase enzymes for site-specific conjugation in antibody-drug conjugates (ADC) production

10:00 – 10:30
Blanka Bucsellà
Application of capillary electrophoresis in biotechnology"

10:30
Coffee break

11:00 – 11:30
Simon Crelier
Adsorption chromatography: there is more to the picture (than meets the eye)

11:30 – 12:00
Harald Schobel
Development and optimization of illumination systems for photobioreactors

12:00
Lunch

🔗 Cell Biology

Chairman: *C.Griesbeck*

14:30 – 15:00
Jack Rohrer
Induced pluripotent stem cells: fascinating research and applications

15:00 – 15:30
Italia Di Liegro
Extracellular vesicles: a universal way for cell-to-cell communication

15:30 – 16:00
Hüseyin Birogul
Development of a human in vitro blood vessel to assess effects of vascular intervention devices

16:00
Poster preparation by the students

Wednesday, 14.09.2016

🔗 Tissue Engineering

Chairman: *J. Rohrer*

09:00 – 9:30
Francesco Carfi Pavia
Poly-L-lactic acid based scaffold for tissue engineering applications

09:30 – 10:00
Markus Merk
Innervation of Engineered 3D Skeletal Muscle with Spinal Cord Explants

10:00 – 10:30
Vincenzo Prestigiacomo
Human 3D-liver model for the investigation of hepatic fibrosis

10:30 – 11:00
Coffee break

11:00 – 11:30
Michael Raghunath
Macro Molecular Crowding for Tissue Engineering

11:30 – 12:00
Niña Reichert: The MTB PhD program of the Competence Center Personalized Medicine of the University/ETH Zurich, Switzerland: Molecular and Translational Biomedicine with focus on personalized medicine - from 'bench to bedside'

Silke Schneider: The Competence Center Personalized Medicine of the University/ETH Zurich, Switzerland: Interdisciplinary genomic-based biomedical research at the interface of life science, medicine and technology for patient-tailored therapies

12:00
Poster Exhibition and Prize

13:00
Concluding Remarks

XI Summer School on Advanced Biotechnology
September 11-14, 2016
Sala Lanza, Orto Botanico Palermo



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