Program

Sunday, August 31 2014

18:00 Registration19:00 Welcome partyBotanical Garden, Via Lincoln 2, Palermo

Monday, September 1 2014

9:15 Welcome and Opening remarks

Natural products

Chairman: A.M.Puglia

- 9:30 *Stefano Donadio*: "Natural products research"
- 10:00 *Margherita Sosio*: "New bioactive compounds from actinobacteria"

10:30 Coffee break

- 11:00 *Giuseppe Gallo*: "Proteomics as a tool to study metabolic pathways associated with antibiotic production in actinomycetes"
- 11:30 *Roberta Pozzi*: "What can we learn from peptidoglycan analysis?"
- 12:00 Sebastian Perkams: "Cultivation of terrestric microalgae and screening for novel compounds"

12:45 – 14:30 Lunch

IX Summer School on Advanced Biotechnology

August 31 – September 3 2014 Sala Lanza, Orto Botanico Palermo

H Natural products II

15:00 Drenusha Sadiku, Claudia Ralser and Marc
Lechner: "Expression of recombinant proteins in the microalga Chlamydomonas reinhardtii"
15:30 Rosario Vanella "Synthetic Biology for the identification of novel 11ßHSD1 inhibitors in yeast"
16:00 Coffee break

16:30 -18:00 Poster preparation by the students

Tuesday, September 2 2014

Novel approaches in health care

Chairman : Eric Kübler

- 9:00 *Daniel Gygax*: "From the individual test kit to the integrated test system "
- 9:30 *Denis Prim*: "Sample preparation challenges in point-of-care diagnostic systems developments"

10:00 *Martin Wolf*: "Recombinant proteins for diagnosis and therapy of weed pollen allergies"

10:30 Coffee break

- 11:00 *Lino Reggiani*: "Proteotronics: electronic devices based on proteins"
- 11:30 *Romina Buchs*: "Infectious Disease cellmodels, their use in industry"
- 12:00 Alessia Liguori: "Vaccine Research in the era of genomics"

12.45-14:30 Lunch

Panoparticles and Tissue engeenering

14:30 *Giulio Ghersi*: "New nano-particles generation by beta irradiation process, their functionalization in addressing target and cargo release process"



- 15:00 Ramon Weishaupt: "Studying the interaction of (poly)peptides and nano fibrillated cellulose"
- 15:30 Paolo Netti "Cell instructive materials to engineering biological tissues in vitro"
 16:00 Valerio Brucato: "Try to bridge in vivo / in vitro models, vascular bioprosthesis and angiogenized complex scaffolds"
- 16:30 *Afrouznia-Taleb Sanaz* "Reconstructed human skin models to study wound healing"

17:00 Coffee break

17-18:30 Poster preparation by the students

Wednesday, September 3 2014

Statistics 🕈

Chairman : Jack Rohrer

9:00 *Beate Sick*: "Correlation, association, and causality"

Cell biology

Chairman: Daniel Gygax

9:30 Jack Rohrer: "Differentiation of macrophages to osteoclasts - Development of a novel cell based assay" 10:00 *Italia Di Liegro*: "Novel routes for brain cellto-cell communications"

10:30 Coffee break

11:00 Vincenzo Cavalieri: "Chromatin insulators -Regulatory mechanisms and prospective application for gene therapy"

🕂 Catalysis and alternative solvent media

Chairman : Christoph Griesbeck

11:30 *Christian Frech*: "New conceptual approach in the design of C-C cross-coupling catalysts. From fundamentals to application"
12:00 *Francesca D'anna*: "Ionic Liquid Binary Mixtures: Promising reaction media for carbohydrate conversion into 5hydroxymethyl furfural"

12:45-14:30 Lunch

14:30 *Gabriele Amore*: "Hunting for the Sicilian Wine yeasts' treasure trove"
15:00 – 18:00 Poster preparation by the students
18:30 Poster exhibition, wine* and cheese!

*gift of "Istituto Regionale Vini e Oli", Palermo

