



Università degli Studi di Palermo

Scuola delle Scienze di Base e Applicate

**Dip. Scienze e Tecnologie Biologiche Chimiche
e Farmaceutiche - STEBICEF**

Consiglio Interclasse Lauree in Biotecnologie

BIRS



Al Presidente
della Scuola delle Scienze di Base e Applicate
Sua sede

Al Prof. S. Feo
Coordinatore CILB
Sua sede

Oggetto: Relazione XI Summer School on Advanced Biotechnology

La XI Summer School on Advanced Biotechnology si è tenuta dall'11 al 14 settembre 2016 presso l'Orto Botanico dell'Università di Palermo.

Alla Scuola (vedi programma allegato) hanno partecipato studenti di diverse nazionalità, tra cui 19 studenti e 4 Professori del Corso di Laurea BIRS (vedi elenco allegato).

Gli studenti del BIRS hanno interagito con i colleghi e professori stranieri e insieme hanno partecipato alla preparazione di posters, su progetti scientifici tematici proposti dai docenti della scuola.

Durante il corso la Dott.ssa Silke Schneider ha presentato agli studenti le opportunità per un PhD program in Biotecnologie applicate alla medicina recentemente attivato con la collaborazione dell'Università dell'ETH di Zurigo.

L'organizzatrice
Prof. A.M. Puglia



Università degli Studi di Palermo

Scuola delle Scienze di Base e Applicate

**Dip. Scienze e Tecnologie Biologiche Chimiche
e Farmaceutiche - STEBICEF**

Consiglio Interclasse Lauree in Biotecnologie

BRS



11th Summer School on Advanced Biotechnology Palermo 11-14.09.2016

List of participants

University of Palermo

Speakers:

Simona Campora
Francesca D'Anna
Italia Di Liegro
Giuseppe Gallo

Students:

Andrea Attardi
Roberta Cacioppo
Mara Castiglione
Paolo Cinà
Laura Cutugno
Luca Dapra
Fabiana Di Leo
Rosa Maria Fontana
Alessandro Gancitano
Marco Maria Grande
Cecilia Licata
Dario Palermo
Antonella Pedone
Veronica Pravatà
Marco Romanino
Maria Cristina Sampino
Giuseppe Sapienza
Alessandra Trainito

BIRS

Biotechnologie per l'Industria e la Ricerca Scientifica

biotechnet

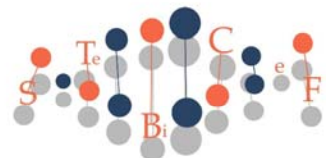
XI Summer School on Advanced Biotechnology

September 11-14, 2016
Sala Lanza, Orto Botanico Palermo



UNIVERSITÀ
DEGLI STUDI
DI PALERMO

DIPARTIMENTO DI SCIENZE E TECNOLOGIE
BIOLOGICHE CHIMICHE E FARMACEUTICHE (STEBICEF)



Sunday, 11.09.20016

- 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. Puglita*
- 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 Raiser
Production of allergens and vaccines in microalgal systems
- 12:00 – 12:30
Verena Looser – Marcel Raabe
Microbial behavior: A science & comic lecture
- 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 Lugnbühl

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 Bucseila

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

Francesca 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

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

 **UNIVERSITÀ DEGLI STUDI DI PALERMO**