



Università degli Studi di Palermo

SCUOLA DELLE SCIENZE DI BASE E APPLICATE

Consiglio Interclasse delle Lauree in Biotecnologie

BIRS



10[^] Summer School on Advanced Biotechnology

La 10[^] Summer School on Advanced Biotechnology si è tenuta dal 30 agosto al 3 settembre 2015 presso Kalthaus, Campus Gruental di Wädenswil (Svizzera).

Alla scuola (vedi programma allegato) hanno partecipato studenti di diverse nazionalità, tra cui 18 studenti (vedi elenco allegato) e 5 Professori del Corso di Laurea.

Gli studenti del BIRS hanno usufruito di un contributo e dell'uso della piattaforma e-learning ItalAcademy da parte del Consorzio Italbiotec, di cui l'Università degli Studi di Palermo è socia fondatrice.





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Program

Sunday, 30.08.2015
Kalthaus,
Campus Gruental

18:00 Welcome Party

Monday, 31.08.15
Camp. Gruental Aula

09:00
Registration

09:30
Opening Remarks

Antibiotics

Session Chair: Daniel Gyga

09:45
Giuseppe Gallo
Microbial Biotech-omics

10:15
Anna Maria Puglia
Strategies for the improvement
of antibiotic production in
Actinomycetes

10:45
Markus Seeger
Antibiotic resistance mediated
by drug efflux pumps

12:00
Kalthaus, Campus Gruental
Lunch and Discussions

Microbial Biotechnology

Session Chair: Jack Rohrer

14:00
Eric Kübler
Strategies to develop 11beta-
HSD1 directed compounds

14:30
Bettina Rainer
Bioanalytics of Pharmaceutical
Products from Microalgae

15:00
Sebastian Perkams
Novel High Value Products from
Terrestrial Microalgae

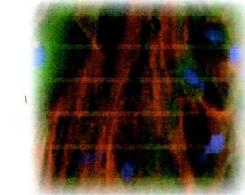
15:30
Coffee Break

16:00
Lukas Neutsch
Advanced bioprocesses for
industrial production of high-
value substances from
microalgae

16:30
Karin Kovar
Microbial Biotechnology at the
cutting edge: Bacteria, yeasts,
fungi or microalgae?

18:00 –
Party "Vucciria Light"
Kalthaus (students)

18:00 –
Dinner Landgasthof Au
(lecturers)



Tuesday, 01.09.15
Camp. Gruental Aula
Tissue Engineering
Session Chair: Vincenzo
Cavaliere

09:00
Kasia Kopanska
3D Cell Culture Technologies

09:30
Livia Zumofen
3D Printing Applications in Life
Sciences

10:00
Coffee Break

Bioanalysis

Session Chair: Marc Pfeifer

10:30
Christian Berchtold
Mass Spectrometry Based
Metabolomics

11:00
Jenna Tonacini
Rapid analysis of pathogen toxins

11:30
Diana Burghelca
Drug quantification in blood within
microstructures for Point-of-Care
Therapeutic Drug Monitoring

12:00
Kalthaus, Campus Gruental
Lunch and Discussions

Biomaterials

Session Chair: Christoph
Griesbeck

14:00
Monica Bassas-Galia
Polyhydroxyalkanoates: the future
green materials of choice

14:30
Valerio Brucato
Phase separation manufacturing
of PLLA scaffolds for tissue
engineering

15:00
Roger Marti
Hydrogels – Synthesis &
Applications

15:30
Wolfgang Wohlleben
Bacterial synthesis of metal
chelators: Biological role and
biotechnical application

16:00
**All Students
Poster preparation**

17:00
Speakers Dinner
With invited guests
Wädibräu

10th Summer School

on Advanced Biotechnology
Wädenswil, 30.8.-3.9.2015

Wednesday, 02.09.15
Camp. Gruental Aula
Cell Biology
Session Chair: Giulio Ghersi

09:00
Vincenzo Cavaliere
Molecular network establishing
dorsal/ventral polarity during sea
urchin embryogenesis

09:30
Hugo Albrecht
Protein kinases as targets for
cancer therapy

10:00
Coffee Break

10:30
Jack Rohrer
Differentiation of macrophages to
osteoclasts

11:00
Laura Suter-Dick
3D-culture systems for toxicology
assessment

11:30
**All students
Poster presentation**

12:15
Kalthaus, Campus Gruental
Lunch and Discussions

13:15
Transfer to ship

14:15
Excursion

Thursday, 03.09.15
Camp. Gruental Aula
**Applied
Biotechnology**
Session Chair: Eric Kübler

09:00
Georg Lipps
Sortases for the development of
antibody drug conjugates

09:30
Rafaela Schmid
Development of Theragnostics for
Targeting the Folate Receptor in
Cancer diseases

10:00
Coffee Brake

10:30
Giulio Ghersi
Drug delivery strategy, using
functionalized nanoparticles in
targeting and release mechanism

11:00
Philippe Corvini
Antibiotics as nutrients for bacteria

11:30
closing remarks

12:00
Kalthaus, Campus Gruental
Lunch and Discussions



Best conditions for your success



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10th Summer School on Advanced Biotechnology

Wadensiwill (CH) 30.08-30.09.2015

List of participants

University of Palermo

Lectures

Gallo	Giuseppe
Brucato	Valerio
Cavalieri	Vincenzo
Gherzi	Giulio
Puglia	Anna Maria

Students

Bongiovanni	Chiara
Celesia	Domenico
Colomba	Flavia
Ferrante	ietro
Fundarò	Flavia
Gangitano	Alessandro
Gullo	Marzia
Heinzmann	Teo
Lauricella	Flavio
Mannino	Salvatore
Nemesio	Danilo
Paladino	Claudia
Pecoraro	Marco
Pinnavaia	Lucrezia
Reina	Chiara
Stornaiuolo	Maria
Trainito	Alessandra
Zerbo	Marcello