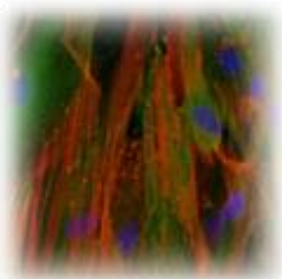


# Program

Sunday, 30.08.2015  
Kalthaus,  
Campus Gruental

18:00 Welcome Party



# 10<sup>th</sup> Summer School

on Advanced Biotechnology

Wädenswil, 30.8.-3.9.2015

Monday, 31.08.15  
Camp. Gruental Aula

09:00  
Registration

09:30  
Opening Remarks

## **Antibiotics**

Session Chair: Daniel Gygax

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  
Cavaleri

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 Burghilea  
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

Wednesday, 02.09.15  
Camp. Gruental Aula

## **Cell Biology**

Session Chair: Giulio Gherzi

09:00  
Vincenzo Cavaleri  
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  
Rafaella Schmid  
Development of Theragnostics for  
Targeting the Folate Receptor in  
Cancer diseases

10:00  
Coffee Brake

10:30  
Giulio Gherzi  
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**

zhaw

biotechnet  
switzerland

TECAN.



Wyss Zurich  
TRANSLATIONAL CENTER



INFORS HT

BINDER

Best conditions for your success