

First IDEA League Summer School

Biotechnology and Bioengineering Applications in Medicine

September 18-22, 2006

Centro Stefano Franscini Monte Verita, Ascona, Switzerland

Bioimaging

Molecular and Cellular Biomechanics

Nanoprobes

Biohybrid Devices

Bioelectronics

Gene Therapy

Systems Biology

Nanopathology

Biopharmaceutical Manufacturing

Biomaterials & Tissue Engineering



Organizers:
Viola Vogel, Markus Aebi, Martin Fussenegger, ETH
Tony Cass, Imperial College
Lothar Elling, RWTH Aachen

summerschool.idealeague.ch

Imperial College
London

TU Delft

ETH
Hörsaalgebäude, Technisch-Hochschule Zürich
Autonome Abteilung für Technologie Zürich

RWTH AACHEN

First
IDEA League
Summer School

September 18-22, 2006
Ascona, Switzerland

Biotechnology and Bioengineering
Application in Medicine

summerschool.idealeague.ch

Preliminary Agenda

Monday, Sep 18	16:00-20:00 19:00	Check-In Welcome Address, Drinks and Snacks
Tuesday, Sep 19	08:30-12:00 14:00-18:30 20:00-22:00	Conferences sessions Conferences sessions Poster sessions
Wednesday, Sep 20	08:30-12:00 14:00-22:00	Conferences sessions Excursion and conference diner
Thursday, Sep 21	09:00-12:00 14:00-18:30 20:00-22:00	Conferences sessions Conferences sessions Poster sessions
Friday, Sep 22	08:30-11:30 11:30-12:00	Conferences sessions Summer School closing notes

Invited Speakers

Stephen Badyak, U Pittsburgh
Biologic Scaffolds for Regenerative Medicine/Tissue Engineering Applications

Gang Bao, Georgia Tech
Nanostructured Probes for Gene Expression Detection in Living Cells

Lothar Elling, RWTH Aachen
Targeting of biomaterial surfaces and glycoproteins by glyco-engineering

Peter Fromherz, MPI Munich
Neuroelectronic Interfacing - its Nature and Implementation

Daniel Mueller, TU Dresden
Imaging and manipulating cells and proteins at molecular resolution

Antonietta Gatti, U Modena
Nanopathology: a Correlation between Environmental Pollution and Disease

Anita Goel, Nanobiosym, Cambridge, MA
Precision Control of Nanomotors that Read DNA at the Single Molecule Level

Steve Quake, Stanford U
Nanosystems Biology: Biological Large Scale Integration

Mike Sheetz, Columbia U, New York
Mechanotransduction and Nanomedicine

Wynne Schiffer, Brookhaven Nat. Lab.
In vivo PET imaging with labeled nanoparticles

Greg Stephanopoulos, MIT
Engineering cells by global Transcriptional Machinery Engineering, (gTME)

Samuel Wickline, Washington U, St.Louis
Nanoemulsions for Multimodal Molecular Imaging and Cell-targeted Drug Delivery

Samuel Stupp, Northwestern U, Evanston, IL
Nanoscience for Regenerative Medicine