



BSRT International Summer School on Innovative Approaches in Regenerative Medicine

Scientific Lectures, Seminars and Practical Demonstrations are Black

Complementary Scientific Program is Green

Cultural and Social Program is Blue

Saturday 14th August 2010

Studentendorf Schlachtensee

16:00 to 18:00 Registration

Fischerhütte am Schlachtensee

from 19:00 Social get together

Sunday 15th August 2010

Meeting Point at Gendarmenmarkt

11:30 to 13:30 Guided walking tour through Berlin

Monday 16th August 2010 The Musculoskeletal System

Charité - Campus Mitte

Clinic for Orthopaedia, Luisenstraße 64

09:30 to 11:00 **Lecture and Patient Demonstration**

The musculoskeletal system: introduction into regenerative medicine and insight into clinical life
(*Dr. Georg Matziolis*)

CSSB, Philippsstraße 13, House 11, Lecture Hall

11:30 to 12:30 **Lecture**

Understanding endogenous mechanism of bone healing as “blueprint” to accelerate healing in critical clinical cases
(*Prof. Dr. Georg Duda*)

13:30 to 14:30 **Visit of Centrum für Sportwissenschaft und Sportmedizin Berlin**
(*Dr. Markus Heller, Dr. William Taylor*)

14:30 to 16:30 **Practical Demonstrations**

Musculoskeletal biomechanics
(*Dr. Markus Heller, Dr. William Taylor*)



CSSB, Philipstraße 13, House 11, Lecture Hall

17:00 to 18:00

Keynote Lecture

Clinical background and challenges in orthopaedic trauma surgery
(*Prof. David Marsh*)

Tuesday 17th August 2010

Engineering in Regenerative Medicine

Charité - Campus Virchow Klinikum

Mittelallee 3/4, Seminar Room 0.1032

09:30 to 10:15

Lecture

Functional imaging of the musculoskeletal tissue regeneration
(*Prof. Dr. Kay Raum*)

Südstraße 8, 1st Floor, Room 0209

10:30 to 12:30

Practical Demonstrations and Hands-On Experience

Acoustic Microscope
(*Prof. Dr. Kay Raum*)

13:45 to 16:45

Practical Demonstrations and Hands-On Experience

Acoustic Microscope
(*Prof. Dr. Kay Raum*)

Konzerthaus Berlin

20:00 to 21:30

Young Euro Classic

Wednesday 18th August 2010

Biology in Regenerative Medicine

Charité - Campus Virchow Klinikum

Forum 3, 2nd Floor, Kursraum 1 (Room 2.0101)

09:30 to 10:15

Lecture

Introducing the chicken as a model organism to study human diseases
(*Prof. Dr. Petra Seemann*)

10:30 to 12:30

Practical Demonstrations and Hands-On Experience

Introducing the chicken as a model organism to study human diseases
(*Prof. Dr. Petra Seemann, Dr. Jochen Hecht*)

13:45 to 16:45

Practical Demonstrations and Hands-On Experience

Introducing the chicken as a model organism to study human diseases
(*Prof. Dr. Petra Seemann, Dr. Jochen Hecht*)

Forum 4, Pathology Lecture Hall

17:00 to 18:00

Keynote Lecture

Skeletal adaptation to mechanical stimuli
(*Dr. Andrew Pitsillides, University of London*)



Thursday 19th August 2010

The Cardiovascular System

Charité - Campus Virchow Klinikum

Forum 4, Pathology Lecture Hall

09:15 to 10:15

Keynote Lecture

Embryonic and induced pluripotent stem cells for basic research and regenerative medicine
(*Prof. Dr. Jürgen Hescheler, University of Cologne*)

German Heart Institute Berlin

10:30 to 12:15

Lecture and Patient Demonstration

The cardiovascular system: introduction into regenerative medicine and insight into clinical life
(*Prof. Christof Stamm*)

Mittelallee 3/4, Seminar Room 0.1032

13:15 to 14:15

Seminar

Stem cells for cardiac repair: reality or dream?
(*Dr. Caroline Schmidt-Lucke*)

Meeting Point at Jannowitzbrücke

16:00 to 17:30

Boat trip on the Spree

Friday 20th August 2010

Biomaterials

Science Park Golm

09:00 to 09:30

Lecture

How physics helps to understand biological material
(*Dr. Richard Weinkamer*)

09:30 to 10:15

Lab Tour

Characterization of biological materials using X-ray scattering, spectroscopy and mechanical testing

10:30 to 12:00

Hands-On Experience

Getting nano-structural information about bone using X-ray scattering
(*Dr. Richard Weinkamer, Dr. Wolfgang Wagermaier*)

Meeting Point at the Luisenplatz

14:00 to 16:00

Guided tour through the park Sanssouci

Saturday 21st August 2010

Potsdamer Platz

11:30 to 13:00

Visit of the Potsdamer Platz



Checkpoint Charlie

14:00 to 16:00

Visit of the Museum Checkpoint Charlie

Sunday 22nd August 2010

All day

Free time

Monday 23rd August 2009

Biomaterials/Immune System

Teltow

GKSS, Kantstraße 55, Lecture Hall

09:00 to 09:30

Lecture

Polymer chemistry
(Prof. Dr. Andreas Lendlein, Dr. Michael Schröter)

09:30 to 10:30

Visit of the GKSS
(Prof. Dr. Andreas Lendlein)

10:30 to 12:00

Practical Demonstrations

Polymer chemistry
(Prof. Dr. Andreas Lendlein, Dr. Michael Schröter)

Charité - Campus Virchow Klinikum

Mittelallee 3/4, Seminar Room 0.1032

14:30 to 15:30

Seminar

Introduction into immune responsiveness to devices, cells, tissue and organs
(Dr. Martina Seifert)

16:00 to 17:00

Seminar

New glucocorticoids on the horizon – teaching old drugs new tricks
(Prof. Dr. Frank Buttgerit)

Forum 4, Pathology Lecture Hall

17:15 to 18:15

Keynote Lecture

Cell Therapy for Bone Disease: The right cell for the right job!
(Prof. Edwin Horwitz, The Children's Hospital of Philadelphia)

Tuesday 24th August 2010

Biomaterials/Clinical Trials

Charité - Campus Virchow Klinikum

Forum 4, Pathology Lecture Hall

09:00 to 10:00

Keynote Lecture

Learning from nature how to design new implantable biomaterials
(Prof. Steve Weiner, Weizmann Institute of Science, Rehovot, Israel)



German Parliament

11:15 to 13:00 Visit of the German Parliament

Charité - Campus Virchow Klinikum

Competence Center for Clinical Trials

15:30 to 17:00 Visit of the Competence Center for Clinical Trials of the Charité
(*Dr. Barbara Pfüller*)

Wednesday 25th August 2010 Modelling/Biomaterials

Campus Dahlem

Zuse Institute Berlin

09:30 to 10:15 **Lecture**
Mathematical modelling in medicine
(*Dr. Martin Weiser, Dr. Stefan Zachow*)

10:15 to 11:00 Visit of the Da Vinci Studio – 3D visualization
(*Instructor*)

Charité - Campus Virchow Klinikum

Julius Wolff Institute, Forum 4

15:15 to 16:00 Visit of the Julius Wolff Institute
(*Prof. Georg Duda*)

Forum 4, Pathology Lecture Hall

16:15 to 17:15 **Keynote Lecture - Cancelled**
Biomaterials in Regenerative Therapies
(*Prof. Dietmar Hutmacher, Queensland University of Technology*)

Thursday 26th August 2010 Stem Cells

Charité - Campus Virchow Klinikum

Forum 4, Pathology Lecture Hall

09:30 to 10:30 **Keynote Lecture**
Stem cells in tissue regeneration
(*Prof. Dr. Michael Raghunath, University of Singapore*)

Forum 3, 2nd Floor, Kursraum 1 (Room 2.0101)

11:00 to 11:45 **Seminar**
Newest applications in regenerative medicine
(*Prof. Dr. Andreas Kurtz*)



Forum 3, 2nd Floor, Kursraum 1 (Room 2.0101)

13:30 to 14:30 **Seminar**
Stem cells, extracellular matrix and the stem cell niche
(*Prof. Dr. Roland Lauster*)

Forschungshaus, Forum 4

14:45 to 17:00 **Practical Demonstrations and Hands-On Experience**
Stem cell culture
(*Dr. Katrin Zeilinger*)

Pergamon Museum

17:45 to 19:00 **Guided tour through the Pergamon Museum**

Friday 27th August 2010

Engineering meets Biology

Charité - Campus Virchow Klinikum

Forum 4, Pathology Lecture Hall

09:30 to 10:30 **Keynote Lecture**
Bioreactor as tools for individualization in stem cell therapy
(*Prof. Augustinus Bader, Universität Leipzig*)

10:45 to 11:45 **Lecture**
Biological and bioinspired materials
(*Prof. Dr. Peter Fratzl, Dr. Richard Weinkamer*)

Forum 3, 2nd Floor, CIPom-Room

13:00 to 15:00 **Practical Demonstrations and Hands-On Experience**
Engineering meets biology: From measurements to diagnosis
(*Prof. Kay Raum, Dr. Richard Weinkamer*)

Meeting Point "Loretta am Wannsee"

19:00 to 21:00 **Dinner**

Saturday 28th August 2010

All day **Departure**