

PhD Program “Regenerative Sciences”

Chairman of program committee: Prof. Christopher Baum
 Vice-chairman: N.N.

Time (in general):

Tutorials Thursday, 3.00 – 4.00 pm

Seminars Thursday, 4.15 – 5.45 pm

May 17th, 2012 is Ascension Day (Christi Himmelfahrt) which is a public holiday. Therefore, this week's teaching is shifted from Thursday to Tuesday (i.e. to May 15th, 2012).

Exceptions in day and time are printed in **bold**.

Location (in general)

Semester 1 & 2 MHH, building I 4, HBRS seminar room 1140, level 1

Semester 3 & 4 MHH, building I 11 – Hans-Borst-Zentrum, seminar room 6040, level S0

Note the * and ** for seminar and tutorial!

1st semester				
Introductory lecture 1 Welcome address, the curriculum of REBIRTH & HBRS, Q&A	seminar*	Thursday, 13.10.2011	4.15 – 5.45 pm	Christopher Baum
	tutorial	Thursday, 20.10.2011	3.00 – 4.00 pm	Christopher Baum
Introductory lecture 2 Principles of regenerative sciences and the REBIRTH approach	seminar	Thursday, 20.10.2011	4.15 – 5.45 pm	Christopher Baum
	tutorial	Thursday, 27.10.2011	3.00 – 4.00 pm	Christopher Baum <i>et al.</i>
Principles of developmental biology and organogenesis 1 Commitment, differentiation, apoptosis, patterning - Morphogenetic gradients and cell-cell communication - Genetic and epigenetic mechanisms	seminar	Thursday, 27.10.2011	4.15 – 5.45 pm	Andreas Kispert
	tutorial	Thursday, 03.11.2011	3.45 – 4.45 pm	Andreas Kispert
Principles of developmental biology and organogenesis 2 - Model systems in developmental biology - Embryogenesis and fetal development	seminar	Thursday, 03.11.2011	2.00 – 3.30 pm	Achim Gossler
	tutorial	Thursday, 10.11.2011	4.45 – 5.45 pm	Achim Gossler
Principles of stem cell biology 1 - Embryonic derivation of stem cells - Culture methods	seminar	Thursday, 10.11.2011	3.00 – 4.30 pm	Thomas Müller
	tutorial	Thursday, 17.11.2011	3.00 – 4.00 pm	Thomas Müller
Principles of stem cell biology 2 - Tumor stem cells and mechanisms of transformation - Principles of cell cycle regulation	seminar	Thursday, 17.11.2011	4.15 – 5.45 pm	N.N.
	tutorial	Thursday, 24.11.2011	3.00 – 4.00 pm	N.N.

Cellular senescence, tumor suppression and organismal aging	seminar	Thursday, 24.11.2011	4.15 – 5.45 pm	Lars Zender
	tutorial	Thursday, 01.12.2011	3.00 – 4.00 pm	Lars Zender
Basic mechanisms of inflammation 1 - Innate and adaptive immunity	seminar	Thursday, 01.12.2011	4.15 – 5.45 pm	Georg Behrens Andreas Krueger
	tutorial	Thursday, 08.12.2011	5.00 – 6.00 pm	Andreas Krueger
Basic mechanisms of inflammation 2 - Infection & Cancer	seminar	Tuesday, 06.12.2011	4.15 – 5.45 pm	Thomas Schulz
	tutorial	Thursday, 15.12.2011	3.00 – 4.00 pm	Thomas Schulz
Principles of cell engineering 1 - microRNAs and downstream targets – technical approaches - Use of miRNA target identification software - Design of miRNA - luciferase-gene reporter assays (tutorial)	seminar	Thursday, 15.12.2011	4.15 – 5.45 pm	Thomas Thum
	tutorial	Thursday, 05.01.2012	3.00 – 4.00 pm	Thomas Thum
Principles of growth factor signalling 2 - Cytokines and hormones and their receptors	seminar	Thursday, 05.01.2012	4.15 – 5.45 pm	Karl Welte/ Julia Skokowa
	tutorial	Thursday, 12.01.2011	3.00 – 4.00 pm	Karl Welte/ Julia Skokowa
Principles of chromosomal instability	seminar	Thursday, 12.01.2011	4.15 – 5.45 pm	Gudrun Göhring
	tutorial	Thursday, 19.01.2012	3.00 – 4.00 pm	Gudrun Göhring
Principles of growth factor signalling 1 - Paracrine and juxtacrine signalling - Signalling pathways involved in the regulation of growth and differentiation	seminar	Thursday, 19.01.2012	4.15 – 5.45 pm	Matthias Gaestel
	tutorial	Thursday, 26.01.2012	3.00 – 4.00 pm	Matthias Gaestel
Principles of cell engineering 2 - Transient DNA delivery - Episomal maintenance - Stable DNA delivery	seminar	Thursday, 26.01.2012	4.15 – 5.45 pm	Christopher Baum Jürgen Bode Axel Schambach
	tutorial	Thursday, 02.02.2012	3.00 – 4.00 pm	Jürgen Bode Axel Schambach

Principles of cell engineering 3 - Homologous recombination - Site-specific DNA modification	seminar	Thursday, 02.02.2012	4.15 – 5.45 pm	Axel Schambach Toni Cathomen
	tutorial	Thursday, 09.02.2012	3.00 – 4.00 pm	Axel Schambach Christopher Baum Toni Cathomen
Principles of cell engineering 4 - Cell expansion - Bioreactors	seminar	Thursday, 09.02.2012	4.15 – 5.45 pm	Thomas Scheper
	tutorial**	Thursday, 16.02.2012	2.45 – 3.45 pm	Thomas Scheper

Please note the following changes:

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- The seminar 'Introductory lecture 1' on October 13th (Christopher Baum) will take place in seminarroom 78 in building I6, level S0, room 4170, 4.15 – 5.45 pm.

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- The tutorial on Thursday, February 16th, 2012 will NOT take place at MHH but at the Institute for Technical Chemistry Leibniz University of Hannover (LUH)
 Callinstr. 3
 30167 Hannover
 Callinstr. 3 (LUH) can easily be reached by tram no. 4 directly from MHH to station Schneiderberg/Wilhelm-Busch-Museum (20 minutes tram)

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2 nd semester				
Principles of growth factor engineering - Engineering growth factors and their receptors for regenerative medicine - Molecular and structural approaches (tutorial)	seminar*	Thursday, 05.04.2012	3.00 – 4.30 pm	Christopher Baum
	tutorial*	Thursday, 05.04.2012	4.45 – 5.45 pm	Trevor Huyton
Principles of materials sciences for regenerative medicine 1 - Ceramic materials (seminar) - Chemistry (tutorial)	seminar*	Thursday, 12.04.2012	3.00 – 4.30 pm	Peter Behrens
	tutorial*	Thursday, 12.04.2012	4.45 – 5.45 pm	Peter Behrens
Principles of materials sciences for regenerative medicine 2 - Polymeric and metallic materials (seminar) - Cell-Biomaterial Interactions (seminar) - Cell technologies (tutorial)	seminar*	Thursday, 19.04.2012	3.00 – 4.30 pm	Birgit Glasmacher
	tutorial*	Thursday, 19.04.2012	4.45 – 5.45 pm	Birgit Glasmacher Nicola Hofmann
Laser technology in medicine 1 Imaging - Basics of Microscopy - Contrast Mechanisms - Modern Approaches in Imaging - Superresolution Microscopy	seminar*	Thursday, 26.04.2012	3.00 – 4.30 pm	Boris Chichkov
	tutorial**	Thursday, 26.04.2012	4.45 – 5.45 pm	Boris Chichkov
Principles of materials sciences for regenerative medicine 3 - Nanoparticles in medicine (NPs) (seminar) - Nano-manufacturing & nanoanalytics using lasers (tutorial)	seminar*	Thursday, 03.05.2012	3.00 – 4.30 pm	Laszlo Sajti
	tutorial**	Thursday, 03.05.2012	4.45 – 5.45 pm	Laszlo Sajti
Laser technology in medicine 2 Laser Manipulation/Machining - Surface Treatment, Structuring, Polymerization - Laser-Tissue Interaction - Laser Manipulation of Cells	seminar*	Thursday, 10.05.2012	3.00 – 4.30 pm	Boris Chichkov
	tutorial**	Thursday, 10.05.2012	4.45 – 5.45 pm	Boris Chichkov
Cardiovascular Tissue Engineering: Principles	seminar	Tuesday, 15.05.2012	4.15 – 5.45 pm	Andres Hilfiker
	tutorial	Thursday, 24.05.2012	3.00 – 4.00 pm	Andres Hilfiker
Tissue processing and preservation	seminar	Thursday, 24.05.2012	4.15 – 5.45 pm	Willem Wolkers
	tutorial	Thursday, 31.05.2012	3.00 – 4.00 pm	Willem Wolkers

Animal models of human disease 1 - murine models of human disease	seminar	Thursday, 31.05.2012	4.15 – 5.45 pm	Achim Gossler
	tutorial	Thursday, 07.06.2012	3.00 – 4.00 pm	Achim Gossler
Animal models of human disease 2 - primate models - humanized mouse models	seminar	Thursday, 07.06.2012	4.15 – 5.45 pm	Ulrich Martin Thomas Moritz
	tutorial	Thursday, 14.06.2012	3.00 – 4.00 pm	Thomas Moritz
Animal models of human disease 3 - transgenic pigs - xenotransplantation - donor animal engineering	seminar	Thursday, 14.06.2012	4.15 – 5.45 pm	Heiner Niemann
	tutorial	Thursday, 21.06.2012	3.00 – 4.00 pm	Heiner Niemann
Principles of organ transplantation 1 - Heart, lung, and vessels	seminar	Thursday, 21.06.2012	4.15 – 5.45 pm	Axel Haverich <i>et al.</i>
	tutorial	Thursday, 28.06.2012	3.00 – 4.00 pm	Axel Haverich <i>et al.</i>
Principles of organ transplantation 2 - Liver, pancreas, and β -cells	seminar	Thursday, 28.06.2012	4.15 – 5.45 pm	Michael Ott
	tutorial	Thursday, 05.07.2012	3.00 – 4.00 pm	Michael Ott
Stem cell based organ regeneration - Heart and β -cells, and clinical translation	seminar	Thursday, 05.07.2012	4.15 – 5.45 pm	Robert Zweigerdt
	tutorial	Thursday, 12.07.2012	3.00 – 4.00 pm	Robert Zweigerdt

Please note the following changes

* The seminars on April 5th, 12th, 19th, 26th, 2012 and May 3rd, 10th, 2012 will be immediately followed by the associated tutorial. The seminars and tutorials on April 12th, 19th, 26th, and May 3rd, 10th, 2012 will NOT take place at MHH, please find the respective addresses below.

** Teaching taking place at the Laser Centre requires registration one week in advance, i.e.

Register until April 19th for the seminar on April 24th (Prof. Chichkov)

Register until April 24th for the seminar on May 3rd (Dr. Sajti)

Register until May 3rd for the seminar on May 10th (Prof. Chichkov)

Please register with Annette Broll or Daniela Pelz, you may of course register for all 3 seminars at the same time.

Additional information on „Principles of materials sciences for regenerative medicine”, part 1, 2 and 3

General topics:

- materials engineering, biomaterials in medicine,
- *ex vivo* and *in vivo* application,
- degradable materials,
- cell-biomaterial interactions

Literature: Biomaterials Science, BD Ratner, AS Hoffman, FJ Schoen, JE Lemons (eds.) Elsevier Amsterdam 2004; has been purchased by REBIRTH for the students.

Locations of lectures and tutorials:

1 Prof. Dr. Peter Behrens (12.04.2011)

Institute for Inorganic Chemistry (AC)

Leibniz University Hannover (LUH)

Callinstrasse 9; D-30167 Hannover

Tel.: +49 (511) 762 3660

Secr.: +49 (511) 762 3697; Fax: +49 (511) 762 3006

Email: Peter.Behrens@acb.uni-hannover.de

Callinstrasse 9 (LUH) can easily be reached by tram no. 4 directly from MHH to station Schneiderberg/Wilhelm-Busch-Museum (20 minutes tram)

2 Prof. Birgit Glasmacher, (19.04.2011)

Institute for Multiphase Processes & Centre for Biomedical Engineering (zbm)

Leibniz University of Hannover

Callinstrasse 36 ; D – 30167 Hannover, Germany

Secr.: Tel. + 49 511.762 3828 ; Fax: + 49 511.762 3031

Email: glasmacher@imp.uni-hannover.de

www.imp.uni-hannover.de

Callinstrasse 36 (LUH) can easily be reached by tram no. 4 directly from MHH to station Schneiderberg/Wilhelm-Busch-Museum (20 minutes tram)

3 Prof Dr. Boris Chichkov (26.04.2012 & 10.05.2012)

Laser Zentrum Hannover e.V.

Department: Nanotechnology

Hollerithallee 8, D-30419 Hannover

Tel. +49 511 2788-316; Fax: +49 511 2788-100

Email: b.chichkov@lzh.de

www.lzh.de

LZH can easily be reached by tram no. 4 directly from MHH to station Marienwerder /Wissenschaftspark (35 minutes tram)

4 Dr. Laszlo Sajti

Laser Zentrum Hannover e.V.

Department: Nanotechnology

Hollerithallee 8, D-30419 Hannover

Tel. +49 511 2788-149; Fax: +49 511 2788-100

Email: l.sajti@lzh.de

www.lzh.de

LZH can easily be reached by tram no. 4 directly from MHH to station Marienwerder /Wissenschaftspark (35 minutes tram)

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3rd semester				
Regenerative Approaches: Blood and Immunity 1 - Principles of hematopoietic stem cell transplantation, lymphocyte infusions and transfusion medicine (seminar) - HLA system and HLA compatibility (tutorial)	seminar	Thursday, 13.10.2011	4.15 – 5.45 pm	Matthias Eder
	tutorial	Thursday, 20.10.2011	3.00 – 4.00 pm	Constanca Figueiredo
Regenerative Approaches: Blood and Immunity 2 - Embryonic stem cell derived hematopoiesis	seminar	Thursday, 20.10.2011	4.15 – 5.45 pm	Bernhard Schiedlmeier
	tutorial	Thursday, 27.10.2011	3.00 – 4.00 pm	Bernhard Schiedlmeier
Regenerative Approaches: Blood and Immunity 3 - Thymus and T-cell development - B-cell development - Flow Cytometry	seminar	Thursday, 27.10.2011	4.15 – 5.45 pm	Andreas Krueger
	tutorial	Thursday, 03.11.2011	3.00 – 4.00 pm	Andreas Krueger
Regenerative Approaches: Blood and Immunity 5 Genetic disorders of hematopoiesis - Leukemia and leukemogenic stem cells	seminar	Thursday, 03.11.2011	4.15 – 5.45 pm	Julia Skokowa
	tutorial	Tuesday, 08.11.2011	3.00 – 4.00 pm	Julia Skokowa Axel Schambach
Regenerative Approaches: Blood and Immunity 4 - Antigen presenting cells	seminar	Tuesday, 08.11.2011	4.15 – 5.45 pm	Renata Stripecke
	tutorial	Thursday, 17.11.2011	3.00 – 4.00 pm	Renata Stripecke
Genotoxicity and Monitoring	seminar	Thursday, 17.11.2011	4.15 – 5.45 pm	Ute Modlich Christopher Baum
	tutorial	Thursday, 24.11.2011	3.00 – 4.00 pm	Ute Modlich Christopher Baum
Immunotoxicity and Immunomonitoring	seminar	Thursday, 24.11.2011	4.15 – 5.45 pm	Christine Falk
	tutorial	Thursday, 01.12.2011	3.00 – 4.00 pm	Christine Falk
Animal Experiments 1 - the influence of the normal flora and pathogens on laboratory rodents (seminar) - Laboratory rodents: case reports and diseases; presentation of the animal house (tutorial)	seminar	Thursday, 01.12.2011	4.15 – 5.45 pm	André Bleich
	tutorial	Thursday, 08.12.2011	3.00 – 4.00 pm	André Bleich

Animal Experiments 2 - Toxicity Testing of (Inhalation) Biopharmaceuticals (seminar) - Animal House and Equipment for Inhalation Toxicity Testing (tutorial)	seminar	Thursday, 08.12.2011	4.15 – 5.45 pm	Clemens Dasenbrock
	tutorial*	Thursday, 15.12.2011	2.45 – 4.00 pm	Clemens Dasenbrock
Measuring through the microscope: Quantitative structural assessment of organs, tissues and cells - Basic principles of design-based stereology (seminar) - Applications of stereology to the lung (tutorial)	seminar	Thursday, 15.12.2011	4.15 – 5.45 pm	Matthias Ochs
	tutorial	Thursday, 05.01.2012	3.00 – 4.00 pm	Matthias Ochs
Regenerative Approaches: Liver 1 - Physiology and pathophysiological changes of the liver - Infectious and metabolic liver diseases	seminar	Thursday, 05.01.2012	4.15 – 5.45 pm	Michael Ott
	tutorial	Thursday, 12.01.2012	3.00 – 4.00 pm	Michael Ott
Regenerative Approaches: Liver 2+3 - Liver regeneration and stem cells - ES-derived generation of hepatocytes - liver cell therapy, basics in translation	seminar	Thursday, 12.01.2012	4.15 – 5.45 pm	Tobias Cantz
	tutorial	Thursday, 19.01.2012	3.00 – 4.00 pm	Tobias Cantz
Regenerative Approaches: Liver 4 - liver tissue engineering - extracorporeal devices / artificial liver	seminar	Thursday, 19.01.2012	4.15 – 5.45 pm	Tobias Cantz
	tutorial	Thursday, 26.01.2011	3.00 – 4.00 pm	Tobias Cantz
Regenerative Approaches: Pancreas 1 - Biochemistry/Pathobiochemistry of pancreatic β -cells	seminar	Thursday, 26.01.2011	4.15 – 5.45 pm	Sigurd Lenzen
	tutorial	Thursday, 02.02.2012	2.00 – 3.00 pm	Sigurd Lenzen
Regenerative Approaches: Pancreas 2 - Differentiation of ES cells into insulin-producing cells	seminar	Thursday, 02.02.2011	3.15 – 4.45 pm	Ortwin Naujok
	tutorial	Thursday, 09.02.2011	3.00 – 4.00 pm	Ortwin Naujok
MicroRNAs in cardiovascular diseases - regeneration and therapeutic approaches	seminar	Thursday, 09.02.2011	4.15 – 5.45 pm	Thomas Thum
	tutorial	Thursday, 16.02.2011	3.00 – 4.00 pm	Thomas Thum

*** Please note the following change**

The tutorial: 'Animal House and Equipment for Inhalation Toxicity Testing' on December 15th 2011. 2.45 - 4:00 pm, location: Fraunhofer ITEM, Nikolai-Fuchs-Str. 1, Main entrance: Stadtfelddamm, Seminar room S 1a.

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4 th semester				
Molecular biology of heart failure (seminar) Physiological measurements at mouse heart (tutorial)	seminar	Thursday, 05.04.2012	3.00 – 4.30 pm	Jörg Heineke
	tutorial	Thursday, 12.04.2012	3.00 – 4.00 pm	Jörg Heineke
Regenerative Approaches: Skin	seminar	Thursday, 12.04.2012	4.15 – 5.45 pm	Hans-Oliver Rennekampff
	tutorial	Thursday, 19.04.2012	3.00 – 4.00 pm	Hans-Oliver Rennekampff
Regenerative Approaches: Heart and vessels 2 - Cardiac differentiation of ES & myocardial TE	seminar	Thursday, 19.04.2012	4.15 – 5.45 pm	Ina Gruh
	tutorial	Thursday, 26.04.2012	3.00 – 4.00 pm	Ina Gruh
Regenerative Approaches: Heart and vessels 1 - Angiogenesis und Arteriogenesis in Development and Disease	seminar	Thursday, 26.04.2012	4.15 – 5.45 pm	Florian Limbourg
	tutorial	Thursday, 03.05.2012	3.00 – 4.00 pm	Florian Limbourg
Regenerative Approaches: Lung 1	seminar	Thursday, 03.05.2012	4.15 – 5.45 pm	Ulrich Martin
	tutorial	Thursday, 10.05.2012	3.00 – 4.00 pm	Ulrich Martin
Regenerative Approaches: Lung 2	seminar	Thursday, 10.05.2012	4.15 – 5.45 pm	Ulrich Martin
	tutorial	Tuesday, 15.05.2012	3.00 – 4.00 pm	Ulrich Martin
Regenerative Approaches: Nerve - Degeneration and regeneration in the central and peripheral nervous system - Animal models of acute and chronic neurotoxicity - Cell therapy in the nervous system: neuronal and non-neuronal cells - Application modes - Clinical trials	seminar	Tuesday, 15.05.2012	4.15 – 5.45 pm	Susanne Petri
	tutorial	Thursday, 24.05.2012	3.00 – 4.00 pm	Susanne Petri
Regenerative Approaches: Heart and vessels 3 - Cell Therapy for Myocardial Infarction: Basic Concepts and Clinical Applications	seminar	Thursday, 24.05.2012	4.15 – 5.45 pm	Kai Wollert
	tutorial	Thursday, 31.05.2012	3.00 – 4.00 pm	Kai Wollert

Regenerative Approaches: Cartilage, bone and tendon - mesenchymal stem cells, mesenchymal tissues - signaling pathways - autologous/ allogenic/ xenogenic/ prosthesis/ tissue engineering - animal models - translation: from basic research to clinical therapies - treatment options for bone fractures, osteoarthritis (articular cartilage damage), tendon ruptures	seminar	Thursday, 31.05.2012	4.15 – 5.45 pm	Andrea Hoffmann
	tutorial*	Thursday, 07.06.2012	3.00 – 4.00 pm	Andrea Hoffmann
Design of clinical trials & regulation	seminar	Thursday, 07.06.2012	4.15 – 5.45 pm	Heiko von der Leyen
	tutorial	Thursday, 14.06.2012	3.00 – 4.00 pm	Heiko von der Leyen
Good Manufacturing Practice (GMP) & Quality Control (QC), Advanced Therapy Medicinal Products (ATMP)	seminar	Thursday, 14.06.2012	4.15 – 5.45 pm	Marc Barthold
	tutorial	Thursday, 21.06.2012	3.00 – 4.00 pm	Marc Barthold
Patent Protection of Academic Inventions	seminar	Thursday, 21.06.2012	4.15 – 5.45 pm	Ralf Cordes
	tutorial	Thursday, 28.06.2012	3.00 – 4.00 pm	Ralf Cordes
Upscaling and manufacturing	seminar	Thursday, 28.07.2012	4.15 – 5.45 pm	Cornelia Kasper
	tutorial	Thursday, 05.07.2012	3.00 – 4.00 pm	Cornelia Kasper
Marketing and industrial partnerships	seminar	Thursday, 12.07.2012	4.15 – 5.45 pm	N.N.

* Please note the following changes

* Location: VIANNA (Verbundinstitut für Audioneurotechnologie und Nanobiomaterialien),
Feodor-Lynen-Str. 35, First floor

Additional offers:

Meet The Investigator					
	Investigator	Department	Location	Date¹	Time¹
	Thomas Thum ²	IFB	I03-02-3340 Office TT	01.02.2012	3.00 - 4.00 pm
	Willem Wolkers	LUH, IMP	Office WW		
	Ulrich Martin	MHH, LEBAO			
	Christopher Baum	MHH, Exp. Hematology			
Method Based Seminar					
Title	Lecturer	Department	Location	Date¹	Time¹
Cardiovascular Phenotyping ³	Sandor Batkai	IFB	Seminar room I3 03	08.02.2012	3.30 - 5.00 pm
Techniques in microRNA Research ³	Jan Fiedler	IFB	Seminar room I3 03	15.02.2012	3.30 - 5.00 pm
RNAi based functional genetic screens to identify new targets in regenerative medicine	Lars Zender	HZI, Braunschweig			
Culture of human iPSC and subcloning of hiPSC colonies	Tobias Cantz	MHH, REBIRTH			
Real-time PCR & Analysis	Ortwin Naujok	MHH, Clin. Biochemistry			
Cryopreservation of blood and cryomicroscopy	Nicola Hofmann	LUH, IMP			
Biomaterials and Biocompatibility	Frank Witte	MHH, Orthopedy	Annastift Anna-von-Borries-Straße 1-7 Hannover		
Lyophilised heart valves	Willem Wolkers	LUH, IMP		29.05.2012	4.45 - 5.45 pm
Processing and storage of tissues in an industrial setting ⁴	Michael Harder	Corlife	Feodor-Lynen-Str. 23	05.06.2012	10.00 - 12.00 am

1 given if known already, all other dates and times will be announced by E-mail

2 maximum number of participants: 5

3 maximum number of participants: 12

4 maximum number of participants: 10

Date and time for all semesters on appointment (registration required), you will be notified by E-mail.