



Joint Master Program in Developmental and Stem Cell Biology



First Workshop

August 24th - 30th, 2008

Albert-Ludwigs-University of Freiburg - Heinrich-Heine-University
of Düsseldorf – Fudan University in Shanghai

Program

Organizers:

Professor Dr. Beate Brand-Saberi,
Institute of Anatomy and Cell Biology, Freiburg
Professor Dr. Gesine Kögler,
Institut für Transplantationsdiagnostik und Zelltherapeutika (ITZ), Düsseldorf

Part I: Albert-Ludwigs-University Freiburg

*Conference Venue: Zentrum für Neurowissenschaften (ZfN), Albertstrasse 23, lecture hall
00.006*

Sunday August 24th, 2008

6:00 p. m. Arrival and Welcome Buffet

Monday August 25th, 2008

Welcome address and Introduction of the project

- 8:45 a. m. Welcome address by Professor Charlotte Niemeyer, Vice Rector for Research and Medicine
- 9:00 a. m. Welcome address by Professor Christoph Peters, Dean of Medical Faculty, Freiburg University
- 9:15 a. m. Welcome address by Professor Matthias Brandis, Director of University Hospital of Freiburg
- 9:30 a. m. Introduction by Professor Beate Brand-Saberi, Dept. of Molecular Embryology, Freiburg University
- 9:45 a. m. Introduction by Professor Gesine Kögler, ITZ, Düsseldorf University
- 10:00 a. m. Professor Jinzhong Chen, Institute of Genetics, School of Life Science, Fudan University
- 10:15 a. m. Welcome Address by Dr. Haiyan Hu-von Hinüber, Dept. of Chinese Studies, China Forum Freiburg

10:30 a. m. *Coffee Break*

Research on Developmental and Stem Cell Biology

11:00 a. m. Professor Thomas Böhm, Max-Planck Institute of Immunobiology in Freiburg: Thymic epithelial stem cells

11:30 a. m. Professor Michael Frotscher, Chairman of Department of Neuroanatomy, Institute of Anatomy and Cell Biology, Freiburg University: Multiple functions of reelin in CNS development

12:00 a. m. Professor Kerstin Krieglstein, Chairman of Department of Molecular Embryology, Institute of Anatomy and Cell Biology, Freiburg University

12:30 a. m. *Lunch Break*

2:00 p. m. Dr. Verdon Taylor, Max-Planck Institute of Immunobiology in Freiburg: Regenerating the brain with neural stems

2:30 p. m. Professor Kögler, Düsseldorf University: Cord Blood for allogenic transplantation and its application in regenerative medicine

3:00 p. m. *Coffee Break*

For interested persons demonstration of an in situ robot in the laboratory of Brand-Saberi

Legal and Ethical Aspects

3:30 p. m. Christoph Hoppe (Deutsche Leukämiehilfe): To hoist the sail

4:15 p. m. PD Dr. Hans-Georg Koch, Max-Planck Institute of International Law: Research on Embryos and Embryonic Stem Cells as a Topic of Medical Law
Discussion

7:30 p. m. *Social Programme for guests*

Tuesday August 26th, 2008

Clinical Aspects of Stem Cell Biology

9:00 a. m. Professor Roland Mertelsmann, Chairman of the Department of Hematology and Oncology, University Medical Center Freiburg

9:45 a. m. Professor Jinzhong Chen, Institute of Genetics, School of Life Science, Fudan University: ND-10 protein is involved in transgene silencing

10:15 a. m. Professor Guido Nikkhah, Stem Cell Therapy, Department of Stereotactic and Functional Neurosurgery, Neurocentre, University Hospital of Freiburg

10:45 a. m. *Coffee Break*

Short talks

11:15 a. m. Dr. Fangping Dai: Atoh8 in myogenesis

11:35 a. m. Dr. Faisal Yusuf: Investigating the role of CXCR4 in cell migration and fate determination of premyogenic precursor cells

12:00 a. m. Gabriela Morosan-Puopolo: The role of Wnt 11 in dermis formation

12:20 a. m. Hans Georg Wirsching: Effects of altered thymosin beta4 expression on the development of the chicken optic tectum

12:40 a. m. *Lunch Break*

1:30 p. m. *City Tour*

Medical Education today

3:45 p. m. Professor Johannes Forster, Chief physician and Master of Medical Education, St. Joseph's Hospital in Freiburg: Curriculum blueprint

4:30 p. m. Professor Björn Stark, Chairman of Department of Plastic Surgery, University Hospital of Freiburg: Tissue Engineering and Regeneration for Reconstructive Surgery: The Importance of Clinical Involvement

Poster Session with Wine and Bretzels

Wednesday, August 27th, 2008

International Education at the University

9:00 a. m. Professor Korinthenberg, Dean of Student Affairs: International cooperations and student exchange at the Medical Faculty, University Freiburg

9:30 a. m. Christian Tischer, International Office of Freiburg University, Program Manager Asia

10:00 a. m. *Coffee Break*

10:30 a. m. Christoph Borner, Director of the Spemann Graduate School of Biology and Medicine: Spemann Graduate School of Biology and Medicine (SGBM) - an excellence school promoting interdisciplinary doctoral education and international mobility

11:00 a. m. Brand-Saberi: New approaches for teaching developmental biology

12:00 a. m. *Lunch Break*

2:00 p. m. Discussion between partner and guest universities - not open to public

Part II: Heinrich-Heine-University in Düsseldorf

Organization: Professor Dr. Gesine Kögler

Thursday, 28th August 2008

2:00 p. m. Arrival Düsseldorf

- 2:30 p. m.
1. Lunch in the ITZ, Building 14.88, 3rd floor
 2. Welcome by Professor Dr. Gesine Kögler, ITZ
 3. Presentation of the ITZ by Dr. Johannes Fischer
 4. Presentation of the GMP Facility by Dr. Verena Reimann and
 5. Tour through the laboratories of the ITZ with Lutz Körschgen

5:00 p. m. Check-in at the Golden Tulip Grand Hotel Düsseldorf Süd Verhagenstraße 37, 40225 Düsseldorf (Phone: +49 211 31 08 00)

6:00 p. m. *Dinner at Restaurant and Bar "Zum Schiffchen", Altstadt, Düsseldorf*

Friday, 29th August 2008

Talks in building 14.79 lecture hall of the Institute for Neuropathology

- 9:00 a. m. Konfuzius-Institut Düsseldorf: Frau Xiaojing Deng und Dr. P. Hachenberg: Welcome and Presentation of the Konfuzius-Institut Düsseldorf
- 9:15 a. m. Professor Dr. U. Decking (Studiendekan Vorklinik): Welcome
- 9:30 a. m. Professor Dr. G. Kögler, ITZ: Development of cellular therapeutics
- 10:00 a. m. Dr. S. Burghoff (Institut für Herz- und Kreislaufphysiologie): Cardiac Regeneration by intracoronary transplantation of HUVEC and USSC in the rat
- 10.30 a. m. Dr. T. Trapp (ITZ): Stem cell treatment of neurological disorders
- 11:00 a. m. *Coffee Break*
- 11:30 a. m. PD Dr. R. Sorg (ITZ) / PD Dr. M. Sabel (Neurochirurgische Klinik): Development of a cellular immunotherapeutic for high grade malignant gliomas
- 12:00 a. m. Dr. T. Trapp (ITZ): Neural precursor cells and neural regeneration
- 12:30 a. m. Discussion
- 1:00 p. m. *Lunch break*
- 2:00 p. m. Professor Dr. Peter Wernet (ITZ): Micro RNAs and Stem Cells
- 2:30 p. m. Dr. Markus Uhrberg (ITZ): Comparative epigenetic analysis of stem and progenitor cell populations
- 3:00 p. m. Professor Dr. G. Kögler, (ITZ): Generation and characterization of USSC lines
- 3:30 p. m. Dr. Stefanie Liedtke: Oct4 and its pseudogenes confuse stem cell research
- Short talks of PhD Students (ITZ):
- Amelie Houben: Telomerase activity and telomere length during stem cell ageing
- Maria Kluth: Adipogenic differentiation as a distinguishing feature between MSC and USSC from Cord Blood.
- Simon Waclawczyk: Functional Differentiation of USSC into Endoderm-like Cells
- 5:30 p. m. Professor Dr. G. Kögler, (ITZ): Closing remarks
- 7:00 p. m. Farewell Evening and Dinner at Schloss Mickeln

Saturday, 30th August 2008

Transfer to Frankfurt Airport or other destinations

This workshop is supported by the BMBF (CHN 08/021), German Leukemia Aid (Deutsche Leukämiehilfe) and José Carreras Foundation