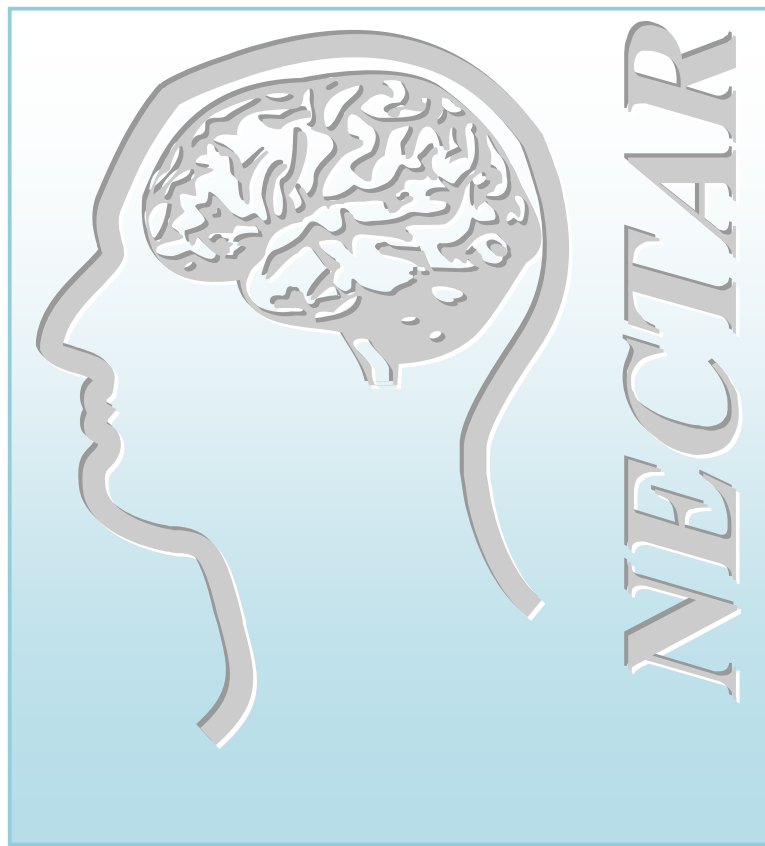


**20th Annual Meeting
of the Network of European CNS
Transplantation and Restoration
(NECTAR)**

PROGRAMME BOOK

**November 25 - 27, 2010
Freiburg, Germany**



WELCOME AND INTRODUCTION

Dear Colleagues,

It is our pleasure to invite you to participate in the **20th Annual Meeting of the Network of European CNS Transplantation and Restoration (NECTAR)** from November 25-27, 2010 in Freiburg, Germany. This year we will celebrate some anniversaries in that NECTAR was founded 20 years ago, and this year's meeting will be the 20th.

Functional restoration in the central nervous system has during recent years attracted increased attention not only from scientists and clinicians worldwide but increasingly also from patient foundations, media and health care systems. And there are clinical trials ongoing with regard to cell replacement, neuroprotection, and gene therapy in different neurological disorders. We are therefore very pleased that the local and international organizing committees were able to again compose a programme with leading scientists and clinicians addressing key issues on experimental studies and clinical applications in the highly dynamic field of functional restoration and repair in the central nervous system. In addition, we are again awaiting very interesting oral presentations in the datablitz sessions.

After the great success of the 19th Annual Meeting last year in Cardiff with focus on Huntington's disease, stroke and stem cells, we will this year place the emphasis on new developments in Parkinson's disease, atypical Parkinsonian syndromes, gene therapy and stem cells. In addition, there will be special lectures with comprehensive presentation on neuroprotection in Parkinson's and Huntington's disease, new therapies for stroke, and ethical issues when implementing new therapies for neurological disorders.

After organizing the NECTAR Meeting in 2006 and the International Neural Transplantation Meeting in 2008, we are again welcoming you in Freiburg and we are very much looking forward to in depth discussions to further understand neurological disorders and improve their treatment.

Christian Winkler
(president of NECTAR; congress president)

Guido Nikkhah
(president of NECTAR 2000-2003; congress secretary)

(on behalf of the local and international organizing committees)

ORGANIZING COMMITTEES

Congress President:

Christian Winkler
Dept. of Neurology
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E-mail: christian.winkler@uniklinik-freiburg.de
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Congress Secretary:

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Administrative Secretary:

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International Organizing Committee (NECTAR board):

Christian Winkler (president)
Roger Barker
Angela Cenci-Nilsson
Deniz Kirik
Emma Lane
Morten Meyer
Gregor Wenning

Local Organizing Committee:

Máté Döbrössy
Manuela Fellmann
Frank Glaser
Guido Nikkhah
Tobias Piroth
Christian Winkler

We thank our colleagues of the Departments of Neurology and Stereotactic Neurosurgery and the Laboratory of Molecular Neurosurgery, who are not listed here, for their substantial support!

CONGRESS INFORMATION

Previous NECTAR meetings

- Planning Meeting* - **Munich**, Germany, 1990, October 20 – 21
- Founding Meeting* - **Le Vesinet**, France, 1991, May 10 – 11
- 2nd Annual Meeting* - **Milan**, Italy, 1992, January 24 – 26
- 3rd Annual Meeting* - **Sandbjerg Manor**, Denmark, 1992, November 20 – 22
- 4th Annual Meeting* - **Brussels**, Belgium, 1993, August 27 – 29
- 5th Annual Meeting* - **Amsterdam**, The Netherlands, 1994, October 26 – 28
- 6th Annual Meeting* - **Maastricht**, The Netherlands, 1995, October 26 – 28
- 7th Annual Meeting* - **Amsterdam**, The Netherlands, 1996, October 25 – 27
- 8th Annual Meeting* - **Brussels**, Belgium, 1997, October 3 – 5
- 9th Annual Meeting* - **Amsterdam**, The Netherlands, 1998, December 4 – 6
- 10th Annual Meeting* - **Odense**, Denmark, 1999, August 25 – 26
- 11th Annual Meeting* - **Hannover**, Germany, 2000, September 15 – 17
- 12th Annual Meeting* - **Brussels**, Belgium, 2001, November 30 – December 2
- 13th Annual Meeting* - **Amsterdam**, The Netherlands, 2002, December 12 – 14
- 14th Annual Meeting* - **Amsterdam**, The Netherlands, 2003, December 4 – 6
- 15th Annual Meeting* - **Brussels**, Belgium, 2004, December 2 – 4
- 16th Annual Meeting* - **Amsterdam**, The Netherlands, 2005, December 8 – 10
- 17th Annual Meeting* - **Freiburg**, Germany, 2006, November 30 – December 2
- 18th Annual Meeting* - **Lund**, Sweden, 2007, December 6 – 8
- 19th Annual Meeting* - **Cardiff**, Wales, 2009, November 26 – 28

DELEGATE INFORMATION I

NECTAR homepage:

You will find all information also at www.nectar-org.eu

Venue Information:

The meeting will be held in the "Runder Saal" of the Konzerthaus Freiburg (Concert Hall), Konrad-Adenauer-Platz 1, 79098 Freiburg, Germany

Email: konzertthaus@fwtm.freiburg.de, website: www.konzertthaus.freiburg.de.

Registration Desk and Information Point

The registration desk and information point will be open during the following hours:

Thursday, Nov 25 10:00-18:00

Friday, Nov 26 08:00-18:00

Saturday, Nov 27 08:30-13:00

Meeting staff will wear marked badges and can be contacted in case of any questions. For security reasons, please always wear your badge which will also serve as your entrance ticket. Meeting staff has the right to refuse entry without a proper name badge.

During the congress, you can reach NECTAR meeting staff under the following mobile number: (+49) 0176 67646566.

Instructions to speakers / media desk:

The NECTAR meeting has a dense and intense schedule. Therefore it is *important that speakers present their talks within the allotted time*. Please bring your talks on USB-stick or CD to the media desk in conference room 2. Standard powerpoint projection facilities will be available and technical assistance for your presentation will be there throughout the conference.

Oral presentations (datablitzes):

As a very long tradition in NECTAR meetings, there will be no poster session, but we have again included so-called datablitzes into the programme. These datablitzes are short oral presentations which are limited to a maximum of 4 minutes talk plus 1-2 minutes of discussion. Thus, a presenter will not be able to describe in detail all the results, but these short oral presentations usually give good opportunities for discussions later during the congress. In case that you would like to re-check the talk you have sent in via internet, please come to the media desk in conference room 2.

DELEGATE INFORMATION II

CME:

Continuous Medical Education: Up to 18 points are awarded by the Landesärztekammer Baden-Württemberg. For further information, please contact the registration desk.

Coffee breaks and lunch:

Coffee breaks and lunch will be served within the industry exhibition in the foyer of the 2nd floor in front of the "Runder Saal".

Conference Dinner:

The conference dinner will take place on Friday evening in the "Friedrichsbau", Kaiser-Joseph-Strasse 268, Freiburg. It is a 10 min walk from the Konzerthaus to the Friedrichsbau (see map). We will leave the concert house at 19:15. Gathering at the Friedrichsbau is at 19:30. The dinner will start at 20:00. Please be on time!

Disclaimer:

The local and scientific organizing committees accept no liability for injuries and losses of whatever nature incurred by participants and/or accompanying persons, nor loss of, or damage to, their luggage and/or personal belongings.

Industry exhibition:

The industry exhibition is located in the foyer of the 2nd floor in front of the "Runder Saal".

Official language:

The meeting language is English.

Tourist Information and cultural highlights in Freiburg:

For information concerning Freiburg and accommodation, restaurants, bars and places to see, please refer to www.freiburg.de. In addition, you find further information at the registration desk.

WLAN:

WLAN is available at several hot spots of the Konzerthaus, however, not in the lecture hall (Runder Saal). Here are the access details for W-LAN:

SSID: konzerthaus-freiburg

Password: 20091021FB

Please note that this W-LAN access is minimally enciphered and that exclusively web-based e-mailing is possible.

ACKNOWLEDGEMENTS

We gratefully acknowledge and thank for the funds that have been provided by:



Medtronic



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PROGRAMME AT A GLANCE

THURSDAY, November 25

12:45-13:45 Light lunch within the industry exhibition

13:45-14:00 Opening remarks

14:00-15:30 Parkinson's disease

15:30-16:00 Coffee break within the industry exhibition

16:00-18:00 Dopamine-dependent dyskinesia in Parkinson's disease

18:00-18:30 NECTAR business meeting

FRIDAY, November 26

08:30-10:30 Gene therapy in Parkinson's disease

10:30-11:00 Coffee break within the industry exhibition

11:00-12:00 Special lecture Neuroprotection in Parkinson's and Huntington's disease

12:00-13:00 Lunch within the industry exhibition

13:00-15:00 Huntington's disease

15:00-15:30 Coffee break within the industry exhibition

15:30-17:00 News from other neurological diseases

17:00-17:10 Break

17:10-18:10 Special lecture Ethics and societal aspects in transplantation and gene-therapy

19:30 Conference dinner

SATURDAY, November 27

09:00-10:30 Stem Cells

10:30-11:00 Coffee break within the industry exhibition

11:00-11:30 Stem Cells

11:30-12:30 Special lecture Stroke: Current status in experimental and clinical studies

12:30-13:30 Light lunch

SCIENTIFIC PROGRAMME

Day 1 – Thursday, November 25

12:45-13:45 Light lunch within the industry exhibition

13:45-14:00 Opening remarks
(Christian Winkler, president of NECTAR)

14:00-15:30 Parkinson's disease

14:00-14:30 Value of current pharmacotherapy and deep brain stimulation
(Alexander Storch, Dresden, Germany)

14:30-15:00 Future options for pharmacotherapy
(Wolfgang Oertel, Marburg, Germany)

15:00-15:30 Neural transplantation: current status in the TRANSEURO trial
(Roger Barker, Cambridge, UK)

15:30-16:00 Coffee break within the industry exhibition

16:00-18:00 Dopamine-dependent dyskinesia in Parkinson's disease

16:00-16:30 News from imaging
(Paola Piccini, London, UK)

16:30-16:50 News on L-DOPA-induced dyskinesia I
(Angela Cenci, Daniella Rylander, Lund, Sweden)

16:50-17:10 News on L-DOPA-induced dyskinesia II
(Ayse Ulusoy, Lund, Sweden / Bonn, Germany)

17:10-17:30 News on graft-induced dyskinesia
(Joanna Garcia, Freiburg, Germany)

17:30-18:00 Datablitz session

Datablitz 1: Hibernation of ventral mesencephalon affects graft innervation and post-transplantation dyskinesia
Lane EL¹, Darsalia V², Petit G², Dunnett SB³, Brundin P²
¹Welsh School of Pharmacy, Cardiff University, Cardiff, Wales, UK; ²Neuronal Survival Unit, Lund University, Lund, Sweden; ³Brain Repair Group, School of Biosciences, Cardiff University, Cardiff, Wales, UK

Datablitz 2: The role of noradrenergic neurons in motor symptoms of Parkinson's disease and development of L-DOPA-induced dyskinesia
Shin E, Björklund A, Carta M

Wallenberg Neuroscience Center, Division of Neurobiology, Lund University, Lund, Sweden

- Datablitz 3: PET imaging and microdialysis studies help explain how cell transplants may interfere with dyskinesias
Kirik D
Brain Repair And Imaging In Neural Systems (BRAINS) Unit, Department of Experimental Medical Sciences, Lund University, Lund, Sweden
- Datablitz 4: Generation of an age-and region-specific map of the developing central nervous system to characterize cells for neurotransplantation
Pauly MC¹, Piroth T², Döbrössy MD¹, Nikkhah G¹
¹Laboratory of Molecular Neurosurgery, Department of Stereotactic and Functional Neurosurgery, University Hospital Freiburg, Freiburg, Germany; ²Department of Neurology, University Hospital Freiburg, Freiburg, Germany
- Datablitz 5: Microbiological safety of fetal tissue in neurorestaurative therapies
Piroth T¹, Beckert J², Pauly MC², Nikkhah G²
¹Department of Neurology; ²Laboratory of Molecular Neurosurgery, Department of Stereotactic and Functional Neurosurgery; University Hospital Freiburg, Freiburg, Germany
- Datablitz 6: Are astrocytes required for optimum survival of embryonic stem cell-derived dopaminergic transplants?
Zietlow R¹, Dunnett SB¹, Rosser AE^{1,2}
¹School of Biosciences, Cardiff University, Cardiff, Wales, UK; ²Departments of Neurology and Genetics, School of Medicine, Cardiff University, Cardiff, Wales, UK

18:00-18:30 NECTAR business meeting

08:30-10:30 Gene therapy in Parkinson's disease

08:30-09:00 Datablitz session

- Datablitz 1: Application of genetically modified neuronal progenitor cells in a rat model of Parkinson's disease – validation of the co-layer method using a BDNF-expression plasmid
Kalve I^{1,2}, Ratzka A¹, Özer M^{1,2}, Wesemann M¹, Jungnickel J¹, Köster-Patzlaff C¹, Nobre A^{1,2}, Grothe C^{1,2}
¹Institute of Neuroanatomy, Hannover Medical School, Hannover, Germany; ²Center for Systems Neuroscience (ZSN), Hannover, Germany
- Datablitz 2: Olfactory deficits in an overexpressing α -synuclein mouse model of Parkinson's disease
Petit GH¹, Kallunki P², Fog K², Brundin P¹
¹Neuronal Survival Unit, Wallenberg Neuroscience Center, Department of Experimental Medical Science, Lund University, Lund, Sweden; ²H. Lundbeck A/S, Department of Molecular Neurobiology, Valby, Denmark
- Datablitz 3: Regulation of endogenous GAD67 expression using artificial transcription factors
Elgstrand Wettergren E¹, Gussing F¹, Sest M², Gräslund T², Lundberg C¹
¹CNS Gene Therapy Unit, Department of Experimental Medical Science, Lund University, Lund, Sweden; ²Department of Molecular Biotechnology, Royal Institute of Technology, Stockholm, Sweden
- Datablitz 4: Systemic administration of Neuregulin-1 β 1 rescues dopaminergic neurons in substantia nigra against 6-OHDA intoxication
Carlsson T^{1*}, Depboylu C¹, Schindler FR¹, Höllerhage¹, Rösler TW¹, Arias-Carrión O¹, Wozny W², Schwall GP², Groebe K², Oertel WH¹, Brundin P³, Schrattenholz A², Höglinger GU¹
¹Experimental Neurology, Philipps University, Marburg, Germany; ²ProteoSys AG, Mainz, Germany; ³Neuronal Survival Unit, Department of Experimental Medical Science, Wallenberg Neuroscience Center, Lund University, Lund, Sweden; *Present address: Institute for Neurophysiology, Neuroscience Center, Goethe University Frankfurt, Frankfurt am Main, Germany
- Datablitz 5: Multifunctionalized electrospun silk fibers provide a bio-active support for axonal growth in the central nervous system
Claudepierre T1, Wittmer CR2, Cronin-Golomb M2, Wiedemann P1, Garlick JA2,3, Kaplan D2, Egles C2,3
¹Department of Ophthalmology and Eye Hospital, Faculty of Medicine, University of Leipzig, Leipzig, Germany; ²Department of Biomedical Engineering, Tufts University, Medford, MA, USA; ³Division of Cancer Biology and Tissue Engineering, Department of Oral and Maxillofacial Pathology, Tufts University, School of Dental Medicine, Boston, MA, USA

09:00-09:30 Dopamine replacement in Parkinson's disease: Delivery of TH and GCH1
(Tomas Björklund, Lund, Sweden)

09:30-10:00 Dopamine replacement in Parkinson's disease: Delivery of AADC, TH and GCH1
(Stephane Palfi, Creteil, France)

10:00-10:30 Datablitz session

Datablitz 1: Fetal antigen-1 positive cell numbers are upregulated in the striatum of 6-OHDA lesioned rats

Ducray A¹, Liechti R¹, Jensen P^{1,2}, Di Santo S¹, Harken Jensen C³, Raabe A¹, Meyer M², Widmer HR¹

¹Department of Neurosurgery, University of Berne, Berne, Switzerland;

²Department of Anatomy and Neurobiology, Institute of Medical Biology, University of Southern Denmark, Odense C, Denmark; ³Department of Immunology and Microbiology, Institute of Medical Biology, University of Southern Denmark, Odense C, Denmark

Datablitz 2: FGF-2 modulates the late stages in embryonic development of the nigral dopaminergic neurons in mice

Baron O^{1,2}, Ratzka A¹, Grothe C^{1,2}

¹Hannover Medical School, Institute of Neuroanatomy, Hannover, Germany;

²Center for Systems Neuroscience (ZSN), Hannover, Germany

Datablitz 3: Axonal pathfinding in the developing nigrostriatal projection system

Engelhard C¹, Hackl C^{1,2}, Papazoglou A¹, Kirch RD¹, Döbrössy MD¹, Nikkhah G¹

¹Molecular Neurosurgery Lab, Neurocenter, University Hospital, Freiburg, Germany; ²Current address: Dept. of Molecular & Cellular Biology Research, University of Toronto, Canada

Datablitz 4: Two-step grafting – a new method to enhance cell survival and study graft development in a 6-OHDA rat model of Parkinson's disease (PD)

Büchele F¹, Papazoglou A¹, Jiang W^{1,2}, Döbrössy MD¹, Nikkhah G¹

¹Laboratory of Molecular Neurosurgery, Department of Stereotactic and Functional Neurosurgery, University Hospital Freiburg, Freiburg, Germany;

²Department of Neurosurgery, Tongji Hospital of Tongji Medical College, Huazhong University, Wuhan, China

Datablitz 5: The efficacy of intraestriatal carotid body (CB) grafts in a new chronic MPTP mouse model of Parkinson's disease correlates with CB GDNF expression, which is differentially regulated by chronic hypoxia along aging

Muñoz-Manchado AB, Villadiego J, Suárez-Luna MN, Bermejo-Navas A, Echevarría M, López-Barneo J, Toledo-Aral JJ*

Instituto de Biomedicina de Sevilla-IBiS, HUVR/Universidad de Sevilla/CSIC, Sevilla, Spain

10:30-11:00 Coffee break within the industry exhibition

11:00-12:00 Special lecture

Neuroprotection in Parkinson's and Huntington's disease
(Jeffrey H. Kordower, Chicago, USA)

12:00-13:00 Lunch within the industry exhibition

13:00-15:00 Huntington's disease

13:00-13:30 Developing neural stem cells for clinical transplantation in Huntington's disease
(Karl Johe, Rockville, USA)

13:30-14:00 Transplantation in Huntington's disease
(Guido Nikkhah, Freiburg, Germany)

14:00-14:30 Deep brain stimulation for Huntington's disease
(Jan Vesper, Düsseldorf, Germany)

14:30-15:00 Datablitz session

Datablitz 1: Characterisation of FoxP1 as a marker of mature medium spiny neurons and their precursors
Precious SV, Kelly CM, Vinh NN, Dunnett SB, Rosser AE
Brain Repair Group, School of Biosciences, Cardiff University, Cardiff, Wales, UK

Datablitz 2: Immune response after cerebral engraftment of human neuronal cells in patients with Huntington's disease
Krebs S^{1,2}, Trippel M¹, Prokop T¹, Omer TN¹, Landwehrmeyer B³, Nikkhah G¹
¹Department of Stereotactic and Functional Neurosurgery, Faculty of Medicine, University of Freiburg, Germany; ²Department of Nuclear Medicine, Faculty of Medicine, University of Freiburg, Germany; ³Department of Neurology, Faculty of Medicine, University of Ulm, Germany

Datablitz 3: Immobilization mask to reduce movement artefacts in MRI images
Schültke E¹, Nanko N², Katzev M³, Sebastian A⁴, Feige B⁴, Pinsker M¹, Nikkhah G¹
¹Department of Stereotactic and Functional Neurosurgery; ²Department of Radiooncology; ³Department of Neurology; ⁴Department of Psychiatry and Psychotherapy; University Hospital Freiburg, Freiburg, Germany

Datablitz 4: Optimising transplantation of novel iPS cells in a rodent model of Huntington's disease
Lelos M¹, Falk A², Koch P³, Heuer A¹, Brüstle O³, Dunnett SB¹
¹Brain Repair Group, Cardiff University, Cardiff, Wales, UK; ²Karolinska Institutet, Stockholm, Sweden; ³University of Bonn, Bonn, Germany

Datablitz 5: Behavioural and histological analysis of a partial double-lesion model of MSA-P
Kaindlstorfer C¹, García J^{2,3}, Winkler C², Wenning G¹, Nikkhah G³, Döbrössy MD³
¹Neurological Research Laboratory, University Hospital Innsbruck, Innsbruck,

Austria; ²Department of Neurology, University Hospital Freiburg, Freiburg, Germany; ³ Laboratory of Molecular Neurosurgery, Department of Stereotactic and Functional Neurosurgery, University Hospital Freiburg, Freiburg, Germany.

15:00-15:30 Coffee break within the industry exhibition

15:30-17:00 News from other neurological diseases

15:30-16:00 Multiple system atrophy: Current status in experimental and clinical studies
(Gregor Wenning, Innsbruck, Austria)

16:00-16:30 Progressive supranuclear palsy: Current status in experimental and clinical studies
(Günter Höglinger, Vincent Ries, Marburg, Germany)

16:30-17:00 Spine injury: Current status in experimental and clinical studies
(Armin Blesch, San Diego, USA)

17:00-17:10 Break

17:10-18:10 Special lecture

Ethics and societal aspects in transplantation and gene-therapy approaches for neurological diseases
(Herbert Gottweis, Vienna, Austria)

19:30 Conference dinner

Day 3 – Saturday, November 27

09:00-10:30 Stem Cells

09:00-09:30 Datablitz session

- Datablitz 1: Short-term shift from low to high oxygen tension promotes dopamine release from differentiated ventral mesencephalic precursor cells
Jensen P^{1,2}, Gramsbergen JB¹, Zimmer J¹, Widmer HR², Meyer M¹
¹Department of Neurobiology Research, Institute of Molecular Medicine, University of Southern Denmark, Odense, Denmark; ²Department of Neurosurgery, University of Bern, Bern, Switzerland
- Datablitz 2: Plasmid based, small molecule augmented reprogramming of human fibroblast cultures into a pluripotent state and subsequent neural induction
Capetian P, Döbrössy MD, Nikkhah G
Laboratory of Molecular Neurosurgery, Department of Stereotactic and Functional Neurosurgery, University Hospital Freiburg, Freiburg, Germany
- Datablitz 3: Creatine improves the metabolic state of murine and human neural stem cells and improves expansion and neuronal induction
Andres RH^{1,2}, Pendharkar AV¹, Guzman R¹, Bliss TM¹, McMillan E³, Svendsen CN³, Raabe A², Wallimann T⁴, Widmer HR², Steinberg GK¹
¹Department of Neurosurgery and Stanford Stroke Center, Stanford University, Palo Alto, CA, USA; ²Department of Neurosurgery, University of Berne, Berne, Switzerland; ³The Waisman Center, University of Wisconsin-Madison, Madison, WI, USA; ⁴Department of Cell Biology, Swiss Federal Institute of Technology, Zürich, Switzerland
- Datablitz 4: Bone marrow-derived mesenchymal stem cells are recruited to the brain but do not differentiate into neuronal phenotypes in mouse models of stroke
Andres RH^{1,2}, Filatenkov A³, Baker J⁴, Guzman R¹, Widmer HR², Raabe A², Negrin RS⁴, Strober S³, Steinberg GK¹
¹Department of Neurosurgery and Stanford Stroke Center, Stanford University School of Medicine, Palo Alto, CA, USA; ²Department of Neurosurgery, University of Berne, Berne, Switzerland; ³Department of Medicine, Division of Immunology and Rheumatology, Stanford University School of Medicine, Palo Alto, CA, USA; ⁴Department of Medicine, Division of Blood and Marrow Transplantation, Stanford University School of Medicine, Palo Alto, CA, USA

09:30-09:50 Neural progenitor cells
(Morten Meyer, Odense, Denmark)

09:50-10:10 Embryonic stem cells
(Jan Pruszak, Boston, USA)

10:10-10:30 IPS-cells
(Alexandra Stolzing, Leipzig, Germany)

10:30-11:00 Coffee break within the industry exhibition

11:00-11:30 Stem Cells

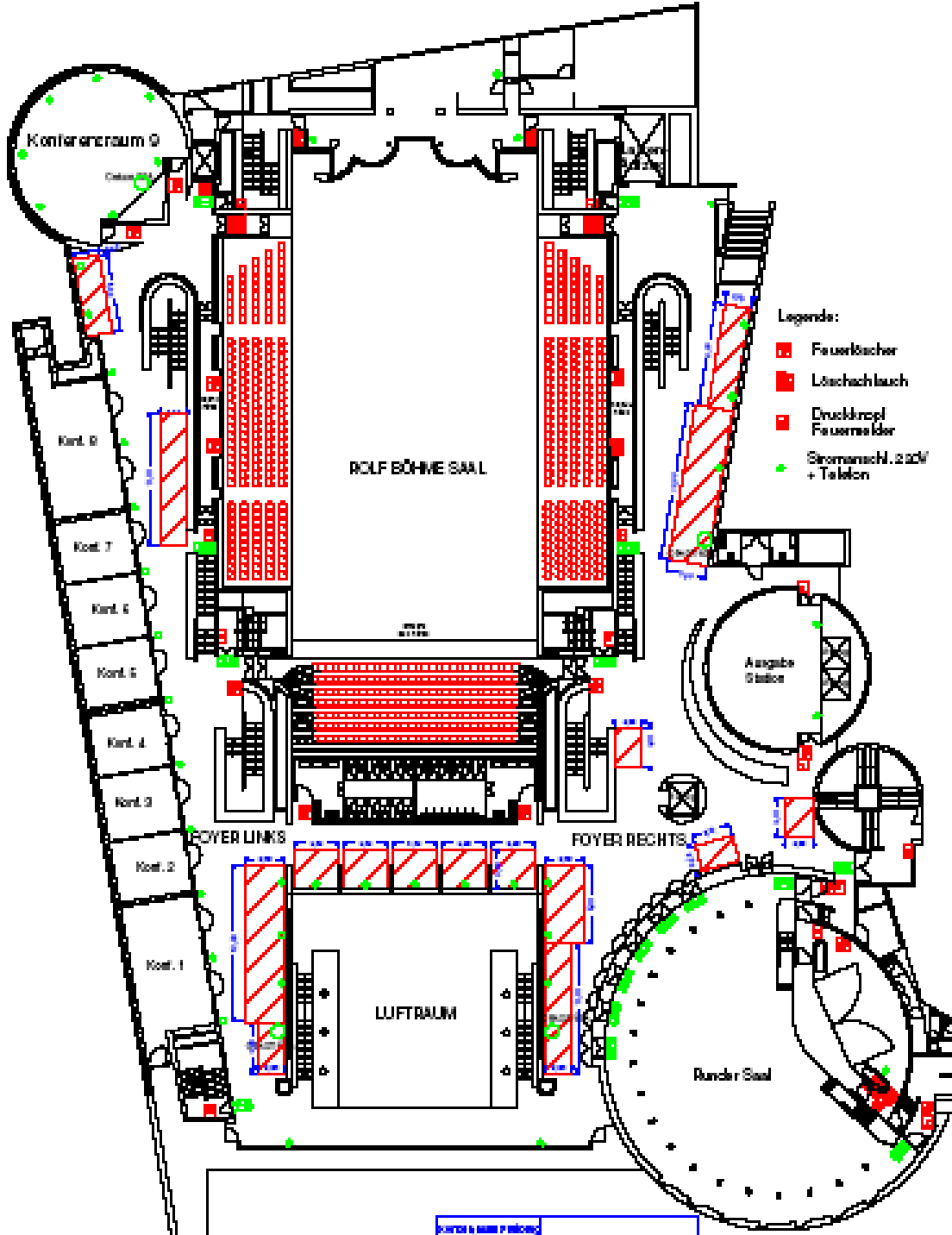
11:00-11:30 Stem cells for Parkinson's disease
(Malin Parmar, Lund, Sweden)

11:30-12:30 Special lecture

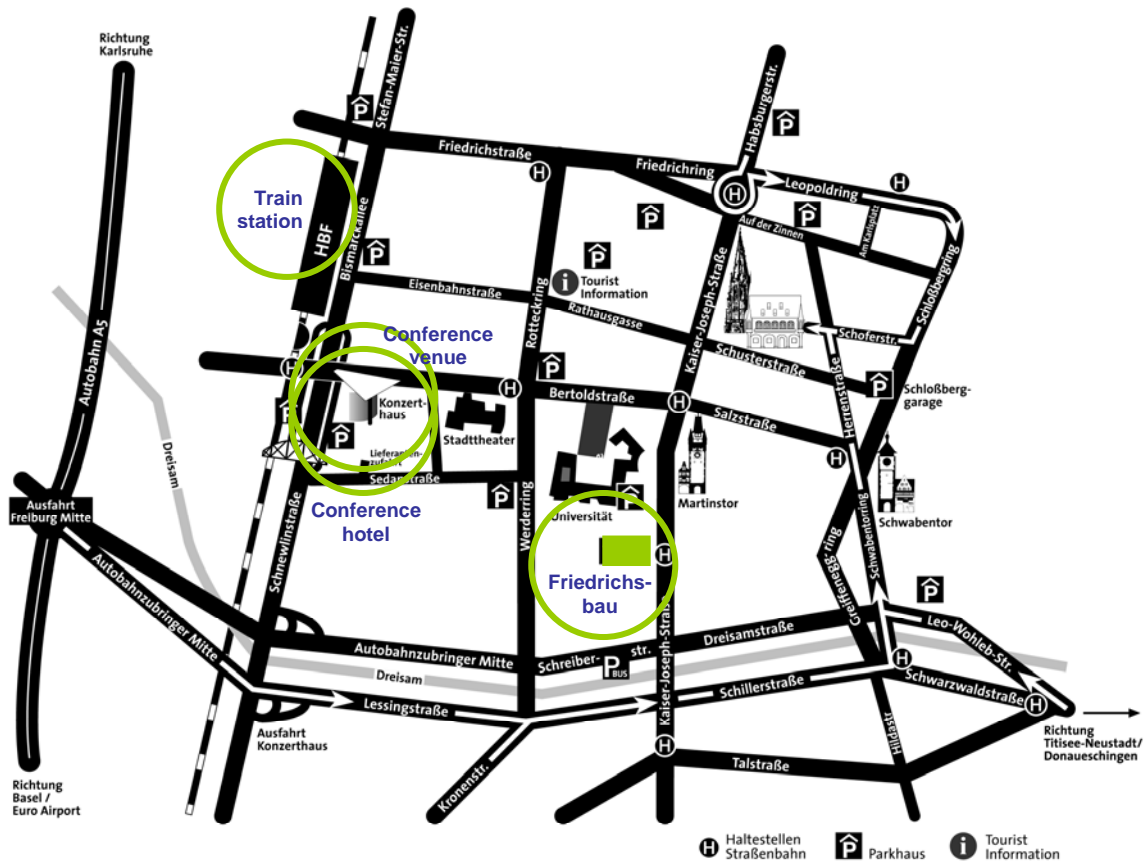
Stroke: Current status in experimental and clinical studies
(Zaal Kokaia, Lund, Sweden)

12:30-13:30 Light lunch and close of meeting

MAP OF CONFERENCE SITE



MAP OF RELEVANT LOCATIONS



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