



Hertie-Institut
für klinische Hirnforschung



annual report 2007

center of neurology tübingen

Directors: Prof. Dr. Thomas Gasser
Prof. Dr. Mathias Jucker
Prof. Dr. Peter Thier
Prof. Dr. Michael Weller

The Centre of Neurology - yearly report

In 2007, the Center of Neurology in Tübingen has continued its successful course, both clinically and scientifically.

Patient Care

The clinical departments were able to increase the number patients treated, as well as revenues, by almost 10% over the preceding year, both in the in-patient and the out-patient sector. For in-patients, this was paralleled by a decrease of the average duration of hospitalisation to now well below 6 days. On the one hand, these numbers show that the strategy of the Centre to combine high scientific and clinical expertise in the major areas of neurology provides also a sound economic basis for the future, because the Centre is able to attract patients not only from the immediate vicinity of Tübingen, but in ever larger numbers from a greater distance. In today's changing health-care financing system, this is essential to maintain an institution devoted to patient care and clinical research. On the other hand, the numbers emphasize the fact that academic medicine is under increasing economic pressure, and that resources to sustain high level clinical research are now more needed than ever.

In order to further strengthen the clinical performance, the Centre is continuously improving its clinical infrastructure. The Stroke / Intensive Care Unit has been completely rebuilt and expanded to 12 beds. A "Post-Stroke-Unit" for early phase rehabilitation has been added and will hopefully be expanded from the present status of 4 beds next year, in order to further increase efficiency and quality of patient care.

Other areas of "high-tech" medicine are also expanding at the Centre. For example, the number of neurovascular interventions, such as stenting of extracranial or intracranial arterial stenoses or coiling of vascular malformations has continued to increase under the leadership of the newly appointed chairperson of the Department of Neuroradiology, Prof. Ulrike Ernemann. The number of patients referred for Deep Brain Stimulation (DBS), which is performed in a close collaboration with the Department of Neurosurgery, is steadily growing, and new indications for this procedure, such as neuropathic tremor and even tic disorders (in cooperation with the Department of Psychiatry), are being explored with remarkable success.

At the turn of the year, the neuro-oncology group is facing the challenge that several senior clinicians and scientists, including the chairman of the Department of General Neurology, Prof. Weller, left the Centre for other positions. The Centre will attempt to recruit replacements as fast as possible, in order to continue to provide the best possible care for patients in this important subspecialty.

Science

The outstanding highlight of 2007 for the entire Neuroscience community in Tübingen was undoubtedly the successful bid for the Cluster "Centre for Integrative Neuroscience" (CIN) in the second round of the Excellence Initiative of the German Federal Government. Approximately 6.5 million Euro per year will allow to install a number of new professorships and junior research groups, pursuing the question of how the brain generates function and how it is disturbed in brain diseases. Within the CIN, a newly founded "Graduate School for Molecular and Cellular Neuroscience", will complement, as a "twin-school", the existing and successful "Graduate School of Neural and Behavioural Sciences / Max Planck-Research School". The Hertie Institute for Clinical Brain Research played a major role in the application, which was co-ordinated by Hertie Director Prof. Peter Thier. To complement the Cluster, the Charitable Hertie Foundation has pledged to increase its funding beyond present levels in order to support a further research department.

In addition to the excellence initiative, scientists of the HIH have been highly successful in obtaining third party funding. Major federally funded programs which were awarded in 2007 include the research networks on Parkinson's and Alzheimer's disease within the National German Genome Project (NGFN^{plus}), with a total funding of more than 2 million € going to the HIH over 5 years, the Helmholtz Alliance for Mental Health in an Ageing Society, and several large cooperative projects funded by the BMBF and the European Science Foundation (ESF) to support research on human cognition.

In order to further improve the scientific competitiveness of the HIH, the board of directors has developed a new programme of intramural funding support for research groups of the Hertie Institute, drawing on the common "research pool" in accordance with the constitution of the HIH. The programme, which replaces the previous programme of "bridging grants", was approved by the Board of Trustees and has been implemented for the first time in 2007. In this programme, the institute supports its research groups by supplementing all externally reviewed grants with a 10% surplus of unrestricted funds from the common research pool. The institute will now also provide start-up funding for promising projects if an application for external funding has been submitted at the DFG, BMBF or a similar funding agency, and supports junior researchers on personal stipends with consumables. The entire programme has a volume of up to 300.000 € per year.

The Hertie Foundation is continuing its support for the HIH by funding a very successful "tandem project". Within this funding scheme, two clinician researchers with similar scientific interests form a tandem pair, who work on an alternating schedule in the hospital and in the laboratory for 6 months of the year each, the idea being that this allows the research efforts on the chosen field to continue seamlessly while at the same time clinical obligations are being fulfilled.

As part of the "reform strategy" of the HIH, the Board of Trustees has now implemented a unique salary bonus system for scientists at the HIH. Personal salaries are supplemented, based on scientific achievements and grant acquisitions, from funds that are provided in equal parts from the Hertie Foundation and the Medical Faculty/University Hospital. It is not surprising that this bonus was received well by the scientists of the HIH.

Many other measures have been taken to make the HIH an even more attractive place for its members. For example, language courses are offered for non-German students and post-docs, and the scientific infrastructure is continuously improved, the latest acquisition being a life cell imaging facility, which has been received with great enthusiasm by many researchers.

The board of the HIH is supported by Koppelstätter Kommunikations GmbH and by the Hertie Foundation to increase the visibility of the Centre. As part of this effort, the web-site of the HIH is presently being remodelled. In January the prime minister of Baden-Württemberg, Dr. Günther Oettinger, visited the Centre and showed an interest in many different aspects of brain research.



Scientific achievements

The four HIH-departments continue to cover a wide range of scientific topics, both in basic and clinical research. A full list of publications is provided in this report. A total number of 130 peer-reviewed ICR-listed papers has been published in 2007, 6 of them in Journals with IF > 10.

At the *Department of General Neurology*, the following events are worth mentioning. Michael Weller, chairman of the Department of General Neurology, received the prestigious German Cancer Award for his outstanding contributions in clinical and basic neuro-oncology. As an integral part of the Comprehensive Cancer Centre, the centre of neuro-oncology (CNO) is among the largest brain tumor centers world wide and his decision to accept a call from the University of Zürich, Switzerland, will be a challenge for the future. Joachim Steinbach, medical coordinator of the CNO, accepted an offer to build up an neurooncology unit at the University of Frankfurt/Main, supported in part by funds from the Hertie Foundation. The reorganization of the stroke unit was instrumental for the neurorehabilitation and plasticity group headed by Andreas Luft to translate their scientific program into the clinical setting to improve the motor performance in patients with stroke. The neuroimmunology group won a junior IZKF research group headed by Bernhard Greve to explore neural stem cell based gene delivery in an animal model of multiple sclerosis. Robert Weissert, former Heisenberg Fellow, left to take up a research position at the Serono research laboratories in Switzerland. Research on regulatory T cells as therapeutic targets in autoimmune diseases including multiple sclerosis was published by the teams of Arthur Melms and Heinz Wiendl in the distinguished journal *Blood*.

One of the major areas of research at the *Department of Neurodegenerative Diseases* is the identification of the genetic alterations underlying neurodegeneration and abnormal movements. During the last year, a considerable number of novel mutations has been identified in a range of disorders, from rare forms of dystonia to spastic paraplegias and familial Parkinson's disease. Phe-

notype definition by modern imaging methods, including transcranial ultrasound, MRI and PET is another research focus that has led to a number of remarkable publications. By several groups in the department, basic cell biology is used as a tool to decipher the molecular events leading to neurodegeneration and electrophysiologic studies are performed to identify the mechanism of action of deep brain stimulation.

An exciting scientific achievement at the *Department of Cognitive Neuroscience* in the year 2007, not yet flown into publications, has been the first demonstration of mirror neurons in the monkey premotor cortex north of the Alps and the discovery of a number of new and intriguing features of these neurons such as the differential representation of peri- and extrapersonal space or the sensitivity to reward. These experiments have been carried out at the department by research fellow Tonino Casile and student Vittorio Caggiano in close conceptual interaction with Giacomo Rizzolatti and Leonardo Fogassi from Parma University, the original discoverers of this intriguing type of neuron. The reports of these findings at the Annual Meeting of the Society for Neuroscience 2007 were received with tremendous interest not only by peers but also by the media as they may have important implications for the understanding of cognitive development and disturbances of social cognition such as in autism. Tonino Casile is also one of the two recipients of the 2007 Attempto Award for his behavioral demonstration that learning new motor patterns leads to a specific improvement of visually perceiving the same patterns, a compelling argument in support of the contentious link between action and perception. Two members of the department were offered professorships 2007. Andreas Nieder was offered the chair of animal physiology at the faculty of biology in Tübingen. Martin Giese received the offer to take over the professorship of theoretical sensorimotorics at the HIH and a little bit later was offered the chair of neuroinformatics at the university of Bochum. We very much hope that both will accept the offers from Tübingen and continue their successful work as members of the vibrant Tübingen neuroscience community united under the roof of the newly founded Werner Reichardt Centre for Integrative Neuroscience (CIN).

The Department of Cellular Neurology had several research highlights in 2007. One of them was the finding that Cystatin C levels in the brain modulate the risk of cerebral amyloidosis and thus provide a novel opportunity for genetic risk assessment and therapeutic interventions into Alzheimer's disease (published in *Nature Genetics*). Moreover, we have achieved the generation of transgenic mouse models of familial British and Danish Dementia, the first mouse model of a non-ABeta cerebral amyloidosis. Thus, we now anticipate important insights into the mechanisms of cerebral amyloidosis, namely, whether the amyloidogenic peptides ABeta, ABri, and ADan promote neurodegeneration and dysfunction or whether it is the formation of the common amyloid structure of these peptides that triggers similar toxic events. The Molecular Biology group could provide new important insights into the mechanism of Gleevec, a known tyrosine kinase inhibitor, which may serve as a basis for potential amyloid-beta lowering drugs for the treatment of Alzheimer's disease (published in *Molecular Biology of the Cell*). The Drosophila Group has further developed a method for in vivo imaging of synapse development and protein dynamics at the synapses (published in *Nature Protocols*) and is now in a position to decipher mechanisms important for synapse stabilization and degeneration. The Molecular Imaging group has used 2-photon-microscopy to study the in vivo response of microglia to amyloid plaque formation in transgenic mice (*Journal of Neuroscience*, in press). On a final note, Janaky Coomaraswamy from our Department was the winner of the Hertie Research Prize of the year 2007 with her work on the prion-related mechanism of exogenous amyloid induction in Alzheimer's disease (published in *Science* in 2006).

Outlook

Not everything that was hoped for has been achieved in 2007. The Centre was unable to recruit a new independent group leader for the advertised position in the area of "experimental in vivo imaging of the brain". Negotiations with two promising candidates unfortunately were unsuccessful. The new branch of the graduate school, the "Graduate School for Molecular and Cellular Neuroscience" has been founded, but is not yet funded on a level that is necessary to be internationally competitive.



A major task for the scientists at the Centre of Neurology in the coming months is to participate in the search for colleagues to fill the numerous positions created by the Excellence Cluster. In addition, the Centre was successful in the first round of reviews for a Schilling-Professorship for Neuroscience with a concept of "Neuroinflammation in Neurodegenerative diseases", and now a full proposal will have to be submitted. This professorship, as well as the "5th Department" that will be supported by the Hertie Foundation will hopefully find research space along with other groups of the CIN in the planned "twin-building" of the present home of the HIH, the projected "Research Building for the Neurosciences".

Clinical Staff
Clinical Efficacy Data
Scientific Staff
Clinical Studies
Third-Party Funding
Publications
Awards, Appointments, Theses
Scientific Conferences
Student Training





Head of the Department of General Neurology

Prof. Dr. M. Weller (Chairman)
 Prof. Dr. A. Melms (Vice-Chairman)

Attending physicians

Dr. F. Bischof	PD Dr. T. Haarmeier	PD Dr. A. Luft
Prof. Dr. A. Melms	Dr. F. Schmidt	PD Dr. J.P. Steinbach
Prof. Dr. Dr. R. Weissert		

Residents

Dr. M. Albert	Dr. O. Bähr	S. Bock
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J. Erharhaghen	Dr. C. Globas	Dr. D. Gramatzki
Dr. B. Greve	Dr. C. Happold	Dr. M. Hermisson
Dr. Huberle	Dr. S. Jacob	P. Körtvelyessy
Dr. D. Lemke	G. Maurer	Dr. M. Mitsdoerffer
Dr. M. Pick	Dr. J. Rieger	Dr. P. Roth
D. Schlak	Dr. B. Schreiner	Dr. S. Schuh-Hofer
Dr. D. Sengupta	Dr. K. Stürner	Dr. G. Tabatabai
Dr. J. Theil	Dr. M. Theil	Dr. T. Wächter

Technical staff

Dipl.-Ing. R. Berndt	Dipl. Inf. H. Rapp
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Professorship for Neurorehabilitation

Prof. Dr. H. Ackermann	Dr. I. Hertrich
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■ ■ Neurodegenerative Diseases / Cognitive Neurology



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Prof. Dr. L. Schöls (Vice-Chairman, Section head)

Attending physicians

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H. Huber	Dr. C. Linnemann	Dr. W. Mätzler
Dr. R. Schüle-Freyer	K. Sruljes	Dr. M. Synofczik
Dr. R. von Coelln		

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Dr. J. Pomper	Dipl.-Psych. E. Becker	



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B6-West

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P. Schroth (CSF Chemistry)	B. Wörner (EEG)	

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Medical Documentation

B. Erb, H. Feuerbacher

■ Clinic for Neurology

Statistical Efficacy Data

Like in the years before, the total number of admissions increased in 2007 and the mean duration of an inpatient stay decreased (2006: 3900 - 2007: 4139 patients, duration: 2006: 6,2 days - 2007: 5,3 days).

The combined neurological intensive care and stroke unit was renovated and expanded in 2007. Three intensive care beds were added. Consequently, admission numbers increased accordingly (2006: 1230 - 2007: 1370). Four regular ward beds were added to the stroke unit to allow for continuous care between the acute phase and rehabilitation.

Patient number in the outpatient clinics were comparable to 2006 (11579, 2007: 12787).

The neurological consult service sees an average of 8 patients per day including weekends. Geriatric patients in the Paul-Lechler-Krankenhaus in Tübingen were seen as part of the interdisciplinary geriatric center.



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■ Neurodegenerative Diseases

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■ Cellular Neurology



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K. Grgur

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Junior Research Group / Hertie Institute Administration

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E. Ninci

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H. Liou
S. Steele

A. Schmandke

T. Schmandke

Hertie Institute Administration

W. Pfaff (Business Manager)
F. Bunjes
J. Oesterle

B. Hoffmann

D. Milford

■ General Neurology

Clinical Studies - Department of General Neurology

Multicenter studies (Tübingen as coordinating center):

NOA-o8: Temozolomide (one week on/one week off) versus radiotherapy for first-line therapy of anaplastic astrocytoma and glioblastoma in the elderly: a randomized phase III study (Methvsalem) (phase III, recruitment ongoing)

Enrolled patients: 10 Investigators: M. Weller, W. Wick

Radiotherapy and concomitant low-dose Indometacin and temozolomide therapy and adjuvant temozolomide therapy (one week on/one week off) in newly diagnosed glioblastoma: a phase II study – UKT-05

Enrolled patients: 21 Investigators: M. Weller, W. Wick

Multicenter studies (Tübingen as participating center):

G-PCNSL-SG-1: Phase IV trial on the role of whole brain radiotherapy in the first-line treatment of primary CNS lymphoma using methotrexate (phase IV, recruitment ongoing)

Enrolled patients: 21 Investigators: U. Herrlinger, M. Weller

Glivec (imatinib mesylate) in combination with Litalir (hydroxourea) or Litalir alone as an oral therapy in temozolomide resistant progressive glioblastoma patients (phase III)

Enrolled patients: 18 Investigators: J. Steinbach, M. Weller

TransMID A phase III multicenter study of intratumoral/interstitial therapy with TransMID compared to best standard of care in patients with progressive and/or recurrent, non-resectable glioblastoma multiforme (phase II)

Enrolled patients: 3 Investigators: G. Eisele, G. Tabatabai, J. Steinbach, M. Weller

Primary chemotherapy with temozolomide vs. radiotherapy in patients with low grade gliomas after stratification for genetic 1p loss: a phase III study (EORTC 22033/26033) (phase III, recruitment ongoing)

Enrolled patients: 6 Investigators: F. Schmidt, M. Weller, W. Wick

Cilengitide (EMD121 974) and temozolomide with concomitant radiation therapy, followed by cilengitide and temozolomide maintenance therapy in subjects with newly diagnosed glioblastoma. A multicenter, open-label, uncontrolled phase I/IIa study (phase I/IIa)

Enrolled patients: 4 Investigators: M. Hermisson, J. Steinbach, M. Weller

Enzastaurin (LY317615) Before and Concomitant with Radiation Therapy, Followed by Enzastaurin Maintenance Therapy in Patients with Newly Diagnosed Glioblastoma without Methylation of the Promoter Gene of MGMT Enzyme

Enrolled patient:1 Investigators: Martin Voss, G. Tabatabai

WX17798: CellCept (mycophenolate mofetil) in Myasthenia Gravis: A prospective, randomized, double-blind, placebo-controlled, multicenter trial to assess the efficacy and safety of adjunct mycophenolate mofetil in Myasthenia Gravis. Sponsor: Aspreva Pharmaceuticals Corp. Rare Diseases Program (phase III, recruitment completed)

Enrolled patients: 3 Investigators: A. Melms

Neurodegenerative Diseases ■

FREEDOMS; CFTY720D2301: A 24-month double-blind, randomized, multicenter, placebo-controlled, parallel-group study comparing efficacy and safety of FTY720 1.25 mg and 0.5 mg administered orally once daily versus placebo in patients with relapsing-remitting multiple sclerosis. Sponsor Novartis (phase III, recruitment completed)

Enrolled patients: 5 Investigators: A. Melms , R. Weissert (bis 02/2007)

TRANSFORMS: Fingolimod (FTY720) versus Interferon beta-1a (Avonex R) bei Patienten mit schubförmiger Multipler Sklerose (Phase III Studie). Sponsor Novartis/PPD.

Enrolled patients: 1, screened 3 Investigator: A. Melms

Treosulfan in MS - Dose finding study - phase II: Randomised, placebo-controlled, three-arm parallel-group, double-blind, multicentre, international clinical phase II study to evaluate the efficacy, safety, and tolerability of intravenous 3 and 6 g/m² treosulfan given every 6 weeks in patients with secondary progressive and relapsing forms of multiple sclerosis. Sponsor Medac (phase II recruiting)

Enrolled patients 1 randomized, 4 screened Investigator: A. Melms

Clinical Studies - Department of Neurodegenerative Diseases

Ataxia

A phase III double-blind, randomised, placebo-controlled study of the efficacy, safety and tolerability of Idebenone in the treatment of Friedreich's ataxia patients (phase III, recruitment ongoing)

Enrolled patients: 18 Investigators: L. Schöls, Ch. Linnemann

Parkinson's disease

A long term, double-blind, randomised parallel-group, carbidopa/levodopa controlled multicenter study to evaluate the effect of StaveloTM in patients with Parkinson's disease requiring initiation of levodopa therapy (phase III, recruitment completed)

Enrolled patients: 11 Investigators: D. Berg, A. Gaenslen, A. Di Santo, and co-workers

A randomised, double-blind, placebo-controlled dose-ranging study of the safety, tolerability and efficacy of E2007 in Parkinson's disease patients with "wearing-off" motor fluctuations and on-period dyskinesia (phase III, recruitment completed)

Enrolled patients: 3 Investigators: D. Berg, A. Gaenslen, H. Huber, and co-workers

A multicentre, randomized, double-blind, placebo controlled, parallel group study of the efficacy, safety and tolerability of E2007 in Levodopa treated Parkinson's disease patients with motor fluctuations (phase III, recruitment completed)

Enrolled patients: 5 Investigators: D. Berg, K. Schweitzer, and co-workers

A multicenter, double-blind placebo-controlled, parallel-group study to assess Rasagiline as a disease modifying therapy in early Parkinson's disease subjects (phase IV, recruitment completed)

Enrolled patients: 15 Investigators: D. Berg, A. Gaenslen, A. Di Santo, and co-workers

■ ■ Neurodegenerative Diseases / Cognitive Neurology

A randomised, double-blind, placebo-controlled, parallel-group clinical trial to examine the efficacy and safety of early Pramipexole treatment versus delayed pramipexole treatment in patients with new onset Parkinson's disease (phase IV, recruitment ongoing)

Enrolled patients: 16 Investigators: D. Berg, A. Di Santo, and co-workers

A study comprising a four-week randomised, double-blind, crossover comparison of Apomorphine Nasal Powder (2 and 4 mg) and Placebo Nasal Powder in the alleviation of acute episodes of motor symptoms associated with Parkinson's disease (phase II, recruitment stopped)

Enrolled patients: 1 Investigators: D. Berg, J. Godau, and co-workers

An open, non-randomised, multinational, multicentre 6-week during study with direct switch to Stalevo in L-Dopa/DCCI-treated Parkinson's disease Patients with early wearing off to examine the efficacy and safety of Stalevo (phase IVb, recruitment completed)

Enrolled patients: 5 Investigators: D. Berg, A. Di Santo, and co-workers

Post marketing observational study on the effect of Rivastigmin in Parkinson's disease with dementia. Verlaufsbeobachtungsstudie Studie von Novartis (phase IVb, recruitment ongoing)

Enrolled patients: 4 Investigators: D. Berg, A. Di Santo, and co-workers

Apomorphin - post marketing observational study in advanced Parkinson's disease (phase IVb, recruitment ongoing)

Enrolled patients: 5 Investigators: D. Berg, K. Schweitzer, A. Gaenslen, and co-workers

A multi-centre, randomized, double-blind, placebo-controlled, parallel-group, multiple oral dose titration study in patients with Parkinson's disease to assess the efficacy of AFQ056 in reducing L-dopa induced dyskinesias, and the safety and tolerability of AFQ056 in combination with L-dopa (phase II, recruitment ongoing)

Patients planned: 9 Investigators: D. Berg, J. Godau, and co-workers

Durchführung der ambulanten videobasierten Parkinsontherapie (recruitment ongoing)

Patients planned: 10/year Investigators: D. Berg and co-workers

Clinical Studies - Department of Cognitive Neurology

An 80-week, randomized, multicenter, parallel-group, double-blind study of the efficacy and safety of atorvastatin 80 mg plus an acetylcholinesterase inhibitor versus an acetylcholinesterase inhibitor alone in the treatment of mild to moderate Alzheimer's disease (study completed)

Enrolled patients: 10 Investigators: H.-O. Karnath, T. Dehmer

Quantification of subtle movement changes in healthy subjects with increased echogenicity of the substantia nigra (phase II, recruitment completed)

Enrolled patients: 100 Investigators: W. Ilg, I. Liepelt, C. Urban, M. Giese, D. Berg

Motor learning in patients suffering from cerebellar ataxia (phase II, recruitment completed)

Enrolled patients: 15 Investigators: W. Ilg, M. Synofzik, S. Burkhard, D. Brötz, M.A. Giese, L. Schöls

Emotion perception from gait pattern in idiopathic Parkinson's disease and spinocerebellar ataxia (phase I, recruitment ongoing)

Enrolled patients: 51 Investigators: C.L. Roether, C. Linnemann, S.U. Steele, A. Gaenslen, D. Berg, L. Schöls, P. Thier, M.A. Giese

Third-Party Funding - Department of General Neurology

Ongoing Grants

Zerebrale Mechanismen der auditiven Objekterkennung und der Sprachlautwahrnehmung: Funktionell-bildgebende Untersuchungen (SFB 550 B1)

Project leader H. Ackermann, W. Lutzenberger
Funding institution DFG
Funding period 01/06-12/07

Neurorehabilitation

Project leader H. Ackermann
Funding institution Kooperationsvertrag Hohenurach
Funding period 01/07-12/11

Phonetische Fremdsprachenbegabung

Project leader H. Ackermann, W. Grodd
Funding institution DFG
Funding period 04/06-03/08

Charakterisierung autoreaktiver T-Zellen nach primärem und sekundärem Antigenkontakt (Bl 603/5-1)

Project leader F. Bischof
Funding institution DFG
Funding period 11/05-10/07

Cerebro-cerebelläre Kommunikation – Grundlage neurokognitiver Funktionen? (SFB 550, A2)

Project leader T. Haarmeier
Funding institution DFG
Funding period 01/06-12/08

Nachwuchsgruppe, Phosphatasen für motorisches Lernen

Project leader A. Luft
Funding institution IZKF
Funding period 03/05-03/08

Inhibitorische cortikale Mechanismen bei motorischem Lernen (SFB 550 C12)

Project leader A. Luft
Funding institution DFG
Funding period 01/06-12/08

Robotics for lower extremity rehabilitation

Project leader A. Luft
Funding institution VA, USA
Funding period 01/06-12/10

Inhibition of PI3K signaling in tumor cells: the down side (GRK 1302/1)

Project leader: J. Steinbach, M. Weller
Funding institution: DFG
Funding Period: 4/2006-9/2010

■ General Neurology

Checkpoints in the thymus for the control of autoimmunity: antigen processing and regulatory T cells (SFB 685 B5)

Project leader A. Melms
Funding institution DFG
Funding period 07/05-06/09

Heisenberg-Stipendium der DFG (WE 1947/4-1)

Project leader R. Weissert
Funding institution DFG
Funding period 08/02-07/07

Entwicklung einer Vakzine zur therapeutischen Induktion von T Helfer 2 Immunität bei Autoimmunerkrankungen (Verbundprojekt 1)

Project leader R. Weissert, F. Bischof
Funding institution IZKF
Funding period 07/04-06/07

Vakzinierung gegen Multiple Sklerose (Biochance Plus)

Project leader R. Weissert
Funding institution BMBF
Funding period 07/04-06/07

Immunogenicity and pathogenicity of self peptides eluted from central nervous system MHC molecules (WE 1947/5-1)

Project leader R. Weissert
Funding institution DFG
Funding period 12/04-11/07

Gliome. Molekulare Diagnostik und neue Therapieansätze

Project leader M. Weller
Funding institution Verbundprojekt der Deutschen Krebshilfe
Funding period 10/04-09/07

Etablierung adulter hämatopoetischer Stammzellen als Vehikel für die Therapie humaner Glioblastome

Project leader W. Wick, A. Wiesmann, M. Weller
Funding institution Verbundprojekt der Deutschen Krebshilfe
Funding period 06/03-05/08

Die Bedeutung von Immunsemaphorinen für die Entstehung von Autoimmunerkrankungen im Zentralen Nervensystem (fortüne 1311760)

Project leader F. Bischof
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 06/06-05/07

Characterization of the cysteine protease cathepsin W and its functional role in cytotoxicity (fortüne 1498-0-0)

Project leader A. Melms, E. Tolosa
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 03/06-02/07

Gentherapie humaner Glioblastome mittels NBK/BIK-exprimierender, TfR-getargeteter Adenoviren

Project leader U. Naumann
Funding institution Matthias-Lackas Stiftung
Funding period 04/06-01/07

p53-basierte experimentelle Therapie maligner Gliome

Project leader U. Naumann, M. Weller
Funding institution DFG
Funding period 01/07-12/09

Zerebrale Kontrolle der Sprechmotorik (fMRT) (AC 55/6-2, HA)

Project leader H. Ackermann
Funding institution DFG
Funding period 04/07-03/09

Clinical studies

Project leader M. Weller, A. Melms, J. Steinbach, and co-workers
Funding institution Pharmaceutical industry
Funding period 01/07-12/07

New Grants awarded in 2007

XIAP-basierte experimentelle Therapie maligner Gliome (107553)

Project leader U. Naumann, M. Weller
Funding institution Deutsche Krebshilfe
Funding period 08/07-07/09
Awarded on Jan 22, 2007

Präklinische Untersuchungen zum Potential einer Therapie mit YB-1-abhängigen onkolytischen Adenoviren zur Therapie von Gehirntumoren (01GU0614)

Project leader M. Weller
Funding institution BMBF
Funding period 01/07-12/09
Awarded on Jan 29, 2007

Neural stem cell-based gene delivery in experimental autoimmune encephalomyelitis (1685-0-0)

Project leaders B. Greve
Funding institution IZFK Tübingen
Funding period 05/07-04/09
Awarded on Jan 30, 2007

Die Rolle von TRAIL-induzierten, nicht-apoptotischen Signalwegen bei Migration und Apoptoseresistenz (fortüne F1311794)

Project leader J. Rieger
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 10/07-09/08
Awarded on Apr 18, 2007

■ General Neurology

Intrakraniale Infusion von löslichem CD70 zur experimentellen Behandlung des Glioblastoms im syngenem Mausmodell

Project leader M. Weller, J. Miller
Funding institution Van Wageningen Selection Committee
Funding period 07/2007 – 06/2008
Awarded on May 2007

Generierung von Antikörpern gegen humane und Maus-MHC-Klasse I-restringierte Foxp3-Epitop-Komplexe (fortüne F1311808)

Project leader S. Aulwurm, S. Pascolo
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 01/08-12/08
Awarded on May 8, 2007

Ausschaltung der autokrinen Effekte des Zytokins TGFbeta auf Gliomzellen durch Expression eines dominant-negativen TGFbeta Rezeptors (fortüne F1311816)

Project leader G. Eisele
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 07/07-06/08
Awarded on June 18, 2007

Dopamin im Motorkortex und motorisches Lernen (Lu 748/5-1)

Project leader A. Luft
Funding institution DFG
Funding period 10/07-09/09
Awarded on Aug 2007

Zerebrale Mechanismen der auditiven Objekterkennung und der Sprachlautwahrnehmung: Funktionell-bildgebende Untersuchungen (SFB 550, B1)

Project leaders H. Ackermann
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Zerebro-zerebelläre Kommunikation - Grundlage neurokognitiver Funktionen? (SFB 550, A2)

Project leaders T. Haarmeier
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Inhibitorische Mechanismen in der Konsolidierungsphase motorischer Fertigkeiten (SFB 550, C12)

Project leaders A. Luft
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Third-Party Funding - Department of Neurodegenerative Diseases

Ongoing Grants

EST: Early-stage training: Molecular mechanisms of Neurodegeneration

Project leader T. Gasser
Funding institution EU
Funding period 04/06-03/08

German Network of Hereditary Movement Disorders (GeNeMove): Dystonia (01GM0304)

Project leader T. Gasser
Funding institution BMBF
Funding period 05/06-04/09

Competence Network Parkinson's disease: DNA-Bank (01Gl0401)

Project leader T. Gasser
Funding institution BMBF
Funding period 09/06-03/08

Benchmarking-Depression in Parkinson's disease

Project leader T. Gasser, D. Berg
Funding institution BMBF
Funding period 03/05-02/07

BioProfile: Generation of Neuronal Stem Cells (0313700)

Project leader T. Gasser
Funding institution BMBF
Funding period 10/05-09/07

Identification of Genetic Risk Factors for Parkinson's Disease (01GS0468)

Project leader T. Gasser, D. Berg
Funding institution BMBF (NGFN2)
Funding period 08/04-07/07

Ausbildungsstipendium Klinische Parkinsonforschung

Project leader T. Gasser, D. Berg
Funding institution Deutsche Parkinsonvereinigung
Funding period 02/04-10/07

Biomarker Award

Project leader D. Berg
Funding institution Michael J. Fox Foundation
Funding period 06/05-05/07

Rivastigmin (Exelon®) zur Behandlung der Demenz bei Patienten mit Progressiver Supranukleärer Blickparese

Project leader D. Berg
Funding institution Novartis
Funding period 12/06-12/07

■ Neurodegenerative Diseases

Bildgebung von Amyloid-Ablagerung im Gehirn von PatientInnen mit Alzheimer Erkrankung, Lewykörper-Demenz, Parkinson-Erkrankung mit Demenz oder Zerebraler Amyloidangiopathie in vivo mittels Positronen-Emissions-Tomographie

Project leader W. Maetzler, D. Berg
Funding institution AKF, Nr. 201-0-0
Funding period 12/06-12/07

Identifizierung und Validierung von Parkinson-Genen mit funktioneller Genomik in Zellkultur und Tiermodellen (N1NV-S31T09)

Project leader P. Kahle
Funding institution BMBF
Funding period 08/04-07/07

Transgenic α -Synuclein Expression in Oligodendrocytes: In vivo Models of Multiple System Atrophy (SFB596 TP A01)

Project leader P. Kahle
Funding institution DFG
Funding period 07/04-09/07

Animal Models for Recessive Hereditary Parkinson's Disease Caused by DJ-1 Mutations (SFB596 TP A12)

Project leader W. Wurst / P. Kahle
Funding institution DFG
Funding period 07/04-06/08

Congruent Mechanisms of Neuroprotection Mediated by Recessive Parkinson's Disease Genes

Project leader P. Kahle
Funding institution Novartis Pharma
Funding period 08/06-07/08

Funktionelle Charakterisierung von Mutationen im Omi/HtrA2 Gen beim Parkinson-Syndrom (KR 2119/3-1)

Project leader R. Krüger
Funding institution DFG
Funding period 09/06-08/08

Generierung transgener Mauslinien zur funktionellen Charakterisierung einer neu identifizierten G399S Mutation im Omi/HtrA2 Gen bei der Parkinson-Krankheit (F1311743)

Project leader R. Krüger
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 09/06-08/07

Deciphering molecular pathways of monogenic forms of Parkinson disease by cell culture and animal models (01GS0468)

Project leader R. Krüger, O. Riess, J.B. Schulz
Funding institution BMBF (NGFN2)
Funding period 09/04-08/07

GeNeMove: Hereditary Spastic Paraplegia (01GM0304)

Project leader L. Schöls
Funding institution BMBF
Funding period 10/03-09/08

Neurodegenerative Diseases ■

Leukonet: Clinical, neurophysiological and neuroradiological characterization of leukodystrophies in adulthood (01GM0309)

Project leader L. Schöls
Funding institution BMBF
Funding period 10/03-09/08

EUROSCA: SpinoCerebellar Ataxia Registry (EUROSCA-R) and Core Assessment for Interventional Therapies (CAPIT-SCA) (LSHM-CT-2004-503304)

Project leader L. Schöls
Funding institution EU
Funding period 01/04-12/08

Subprocesses of human executive functions and their relation to genotypes in the dopaminergic system (I/80711)

Project leader L. Schöls
Funding institution Volkswagen Foundation
Funding period 07/05-06/07

Funktionelle und strukturelle Charakterisierung der Basalganglien bei den Spinozerebellären Ataxien Typ 2 und Typ 3 (Scho754/3-1)

Project leader L. Schöls
Funding institution DFG
Funding period 09/05-08/07

Evaluation von Standards zur Diagnostik der Demenz bei Morbus Parkinson

Project leader D. Berg, I. Liepelt
Funding institution Dr. Werner Jackstädt-Stiftung
Funding period 10/06-10/07

Clinical studies

Project leader D. Berg, L. Schöls, and coworkers
Funding institution Pharmaceutical industry
Funding period 01/07-12/07

New Grants awarded in 2007

Molekulargenetische und funktionelle Charakterisierung der Rolle von Mortalin/Grp75 als neues DJ-1-(PARK7)-interagierendes Protein in der Pathogenese der Parkinson-Krankheit

Project leader R. Krüger
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 11/07-10/08
Awarded on Apr 24, 2007

Klonierung des Gens für eine neue Form der autosomal dominanten spastischen Spinalparalyse (SCHO 754/4-1)

Project leader L. Schöls
Funding institution DFG
Funding period 08/07-07/09
Awarded on May 18, 2007

■ Neurodegenerative Diseases

Bewegungstherapie bei Morbus Parkinson – Korrelation von morphologischen Veränderungen und positiven Effekten auf Motorik und Alltagsbewältigung

Project leader D. Berg
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 08/07-08/08
Awarded on June 19, 2007

Collection and analysis of biological fluids from patients carrying LRKK2 mutations

Project leader T. Gasser
Funding institution Novartis Pharma AG
Funding period 10/07-06/08
Awarded on June 20, 2007

Identifizierung und Validierung von Parkinson-Genen durch funktionelle Genomik in Zellkultur und Tiermodellen (01GS0468)

Project leader P. Kahle
Funding institution BMBF (NGFN2)
Funding period 06/07-05/08
Awarded on Aug 2, 2007

Identification of Genetic Risk Factors for Parkinson's Disease (01GS0468)

Project leader T. Gasser, D. Berg
Funding institution BMBF (NGFN2)
Funding period 06/07-05/08
Awarded on Aug 2, 2007

Deciphering molecular pathways of monogenic forms of Parkinson disease by cell culture and animal models (01GS0468)

Project leader R. Krüger
Funding institution BMBF (NGFN2)
Funding period 06/07-05/08
Awarded on Aug 2, 2007

Study in patients with Parkinson's disease to assess the efficacy of AFQ056

Project leader D. Berg
Funding institution Novartis Pharma AG
Funding period 10/07-06/08
Awarded on Oct 10, 2007

Functional Genomics of Parkinson's Disease: Scientific administrative office

Project leader T. Gasser
Funding institution BMBF/DLR
Funding period 06/08-05/11
Awarded on Nov 27, 2007

Functional Genomics of Parkinson's Disease: Genomics of Parkinson's disease

Project leader T. Gasser, D. Berg
Funding institution BMBF/DLR
Funding period 06/08-05/11
Awarded on Nov 27, 2007

Neurodegenerative Diseases ■

Functional Genomics of Parkinson's Disease: Regulation of Apoptosis Signal Regulating Kinase Pathways by DJ-1 and Parkin

Project leader P. Kahle
Funding institution BMBF/DLR
Funding period 06/08-05/11
Awarded on Nov 27, 2007

Functional Genomics of Parkinson's Disease: Mitochondrial stress response in neurodegeneration and aging – dissection of Omi/HtrA2 and DJ-1 mediated signalling pathways

Project leader R. Krüger
Funding institution BMBF/DLR
Funding period 06/08-05/11
Awarded on Nov 27, 2007

RISCA – Prospective study of individuals at risk for spinocerebellar ataxia

Project leader L. Schöls
Funding institution BMBF/DLR
Funding period 04/08-03/11
Awarded on Dec 19, 2007

EUROSCA – European and Mediterranean network on spastic paraplegias

Project leader L. Schöls
Funding institution BMBF/DLR
Funding period 05/08-04/11
Awarded on Dec 19, 2007

Prospective validation of risk markers for the development of Parkinson's disease

Project leader D. Berg
Funding institution Michael J. Fox Foundation for Parkinson's Research
Funding period 12/07-5/09
Awarded on Dec 20, 2007

Integrierte videobasierte Versorgung von Parkinson-Patienten

Project leader D. Berg
Funding institution Neurologisches Krankenhaus München mit VdAK und AEV
Funding period 09/07-
Awarded on Sep 4, 2007

■ Cognitive Neurology

Third-Party Funding - Department of Cognitive Neurology

Ongoing Grants

Action representation and learning (I/76 556)

Project leader M. Giese
Funding institution VW Foundation
Funding period 06/01-11/07

Quantitative Messung und theoretische Modellierung der visuellen Tuning-Eigenschaften von Mirroneuronen im prämotorischen Kortex (Area F5) von Affen (SFB 550, C10)

Project leaders M. Giese, P. Thier
Funding institution DFG
Funding period 01/06-12/07

The expression of emotions through bodily movements (RGP54/2004)

Project leader M. Giese
Funding institution HFSO
Funding period 10/04-09/07

Learning of structured trajectory models with high flexibility for computer animation (Gl 305/2-1)

Project leader M. Giese
Funding institution DFG
Funding period 04/06-03/08

Peract: Marie Curie Training Site "Perception and action in space." Project: Sensorimotor integration (MEST-CT-2004-504321)

Project leader U. Ilg
Funding institution EC
Funding period 08/04-07/08

Geschwindigkeitsillusion und deren zentralnervöse Grundlagen (IL 34/6-1)

Project leader U. Ilg
Funding institution DFG
Funding period 09/06-08/08

Alterungsprozesse der auditiven und multisensorischen Raumwahrnehmung (KA 1258/7-1)

Project leader H.-O. Karnath
Funding institution DFG
Funding period 10/07-09/09

Störungen motorischen Handelns nach Schädigungen des parietalen und des temporalen Cortex beim Menschen (SFB 550, A4)

Project leader H.-O. Karnath
Funding institution DFG
Funding period 01/00-12/07

Visuo-räumliche Kognition (01GW0654)

Project leader H.-O. Karnath
Funding institution BMBF
Funding period 01/07-12/09

Verbundprojekt Räumliche Orientierung: TP 1 ,Fractionating disorders of spatial orientation and attention in brain-damaged patients with spatial neglect and extinction (01GW0641)

Project leader H.-O. Karnath
Funding institution BMBF
Funding period 01/07-12/09

Peract: Marie Curie Training Site "Perception and action in space." Project: Spatial reference frames (MEST-CT-2004-504321)

Project leader H.-O. Karnath
Funding institution EC
Funding period 08/04-07/08

Neural correlates of spatio-temporal impairments of conscious visual processing (d/05/54042)

Project leader H.-O. Karnath
Funding institution DAAD Vigoni-Program
Funding period 01/06-12/07

Neuronale Mechanismen der Bildung numerischer Kategorien und Konzepte bei Affen (SFB 550, C11)

Project leader A. Nieder
Funding institution DFG
Funding period 01/03-12/07

Career Development Award (CDA 0038/2004-C)

Project leader A. Nieder
Funding institution HFSO
Funding period 01/05-12/07

The neural coding of numerical, spatial and sensory magnitudes in the human and non-human primate brain (I/81 035)

Project leader A. Nieder
Funding institution VW Foundation
Funding period 12/05-11/08

Kontrolle von Armbewegungen bei Kindern und der Zusammenhang zur Entwicklung visuell-räumlicher Fähigkeiten (RI 1215/2-1)

Project leader S. Richter/H.-O. Karnath
Funding institution DFG
Funding period 04/05-03/07

Aktive Bewegung als Grundlage der Texturdiskrimination. Psychophysikalische und elektrophysiologische Untersuchungen der bewegungsabhängigen Modulation von taktiler Wahrnehmung im Vibrissensystem der Ratte (SFB 550, B11)

Project leader C. Schwarz
Funding institution DFG
Funding period 01/06-12/07

Context-dependent changes of signal transfer at a central machine-brain interface. A study using multielectrode stimulation and recording in barrel cortex of awake rats during active and passive touch

Project leader C. Schwarz
Funding institution DFG
Funding period 01/07-12/08

■ Cognitive Neurology

Analyse der zerebralen Wirkungen von Benzodiazepinen mit Hilfe von Knock-in-Mäusen: Welche Subtypen des GABAA-Rezeptors sind beteiligt? (SCHW 577/8-1)

Project leader C. Schwarz
Funding institution DFG
Funding period 10/07-09/10

Mikrostimulationsgetriggertes fMRI als Werkzeug zur Charakterisierung cerebello-cerebraler Schleifen (SFB 550, A9)

Project leader F. Sultan
Funding institution DFG
Funding period 01/03-12/07

Setup and maintenance of the Dept. Cognitive Neurology (TS 013/01.184/98)

Project leader P. Thier
Funding institution Schilling Foundation
Funding period 07/00-06/10

Ponto-cerebelläre Grundlagen zielgerichteten Agierens im Raum (SFB 550, A7)

Project leader P. Thier
Funding institution DFG
Funding period 01/00-12/07

Service and special functions (SFB 550, D1)

Project leader P. Thier
Funding institution DFG
Funding period 01/00-12/08

Peract: Marie Curie Training Site "Perception and action in space." Project: Cortico-cerebellar interplay (MEST-CT-2004-504321)

Project leader P. Thier
Funding institution EC
Funding period 08/04-07/08

Sensoprim: Marie Curie Training Site "Sensory information processing in non-human primates." (MEST-CT-2004-07825)

Project leader P. Thier
Funding institution EC
Funding period 07/04-06/08

3 Ts magnetic resonance scanner for functional imaging (Th 812/1-1)

Project leader P. Thier
Funding institution DFG
Funding period as of 2002

Von Helmholtz's missing reference signals: Do they reflect an adapting action of the cerebellum on the cerebral cortex? (I80 727)

Project leader P. Thier
Funding institution VW Foundation
Funding period 09/05-08/08

Die Bedeutung der Blickrichtung für soziale Kognition: Die neurobiologische Basis für Autismus

(01GA0503)

Project leader P. Thier
Funding institution BMBF
Funding period 07/05-06/08

Verbundprojekt Räumliche Orientierung: TP 2, Towards the neuronal basis of spatial updating'

(01GW0641)

Project leader P. Thier
Funding institution BMBF
Funding period 01/07-12/09

New Grants awarded in 2007

Quantitative Messung und theoretische Modellierung der visuellen Tuning-Eigenschaften von Mirroneuronen im prämotorischen Kortex (Area F5) von Affen (SFB 550, C10)

Project leaders M. Giese, P. Thier
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Störungen motorischen Handelns nach Schädigungen des parietalen und des temporalen Cortex beim Menschen (SFB 550, A4)

Project leader H.-O. Karnath
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Neuronale Mechanismen der Bildung numerischer Kategorien und Konzepte bei Affen (SFB 550, C11)

Project leader A. Nieder
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Aktive Bewegung als Grundlage der Texturdiskrimination. Psychophysikalische und elektrophysiologische Untersuchungen der bewegungsabhängigen Modulation von taktile Wahrnehmung im Vibrissensystem der Ratte (SFB 550, B11)

Project leader C. Schwarz
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

Mikrostimulationsgetriggertes fMRI als Werkzeug zur Charakterisierung cerebello-cerebraler Schleifen (SFB 550, A9)

Project leader F. Sultan
Funding institution DFG
Funding period 01/08-12/08
Awarded on Dec 4, 2007

■ ■ Cognitive Neurology / Cellular Neurology

Ponto-cerebelläre Grundlagen zielgerichteten Agierens im Raum (SFB 550, A7)

Project leader P. Thier
Funding institution DFG
Funding period 01/00-12/08
Awarded on Dec 4, 2007

Third-Party Funding - Department of Cellular Neurology

Ongoing Grants

Alzheimer: 100 Years and Beyond Symposium

Project leader M. Jucker
Funding institution Gemeinnützige Hertie-Stiftung, Eisai/Pfizer, Hoffmann-La Roche
Funding period 11/05-02/07

NGFN-2 - Functional Genome Research for Human Health (01GS0468)

Project leader M. Jucker
Funding institution BMBF / DLR
Funding period 08/04-07/07

Generation of APP transgenic mice

Project leader M. Jucker
Funding institution Koesler
Funding period 01/05-06/08

Anti beta-amyloid 'anticalins' as a promising therapeutic and specific approach to treat Alzheimer's disease ARREST-AD (01GU0522)

Project leader M. Jucker
Funding institution BMBF / DLR
Funding period 07/06-12/08

Autophagie und chronische Erkrankungen (32-7532.22-28-18/3)

Project leader M. Jucker, L. Stoltze
Funding institution FSP des Landes Baden-Württemberg
Funding period 03/06-12/08

Exogenous induction of cerebral amyloidogenesis (ZEN-06-27341)

Project leader M. Jucker
Funding institution Alzheimer's Association USA
Funding period 09/06 - 08/08

Two-photon microscopy for in vivo application

Project leader M. Jucker, M. Calhoun
Funding institution Leica Microsystems
Funding period 01/06-12/07

Learning-related gene expression in cortical systems: the impact of vascular and parenchymal amyloid

(CA 477/1-2)

Project leader M. Calhoun
Funding institution DFG
Funding period 06/05-10/07

Relational memory and learning-related gene induction in AD mouse models (IRG-05-13464)

Project leader M. Calhoun
Funding institution Alzheimer's Association USA
Funding period 10/05-09/08

A new model for investigating the role of the human immune system in Alzheimer's disease

(Thyssen 10.05.2.193)

Project leader L. Stoltze
Funding institution Fritz Thyssen Stiftung
Funding period 11/05-04/08

Molecular mechanisms controlling synaptic stability (fortune 1314025)

Project leader T. Rasse
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 11/06-02/07

Lern-assoziierte Genexpression in transgenen Mausmodellen der Alzheimer Krankheit (scholarship)

Project leader B. Wegenast-Braun
Funding institution Studienstiftung des deutschen Volkes
Funding period 06/05-06/07

Modelling AD in mice with human immune system (scholarship)

Project leader D. Lindau
Funding institution Boehringer Ingelheim
Funding period 08/05-07/07

Systematische Untersuchung von Signalwegen, die die Stabilisierung von Synapsen regulieren

(21-655.023/572)

Project leader T. Rasse
Funding institution Eliteprogramm Landesstiftung Baden Württemberg
Funding period 03/07-12/08

New Grants awarded in 2007

How do soluble APP fragments influence the formation, maturation and elimination of synapses?

(fortune 1691-0-0)

Project leader T. Rasse
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 05/07-12/07
Awarded on Apr 24, 2007

■ Cellular Neurology

Charakterisierung der Rolle von T-Zellen in der Alzheimer-Erkrankung (fortüne 1516-0-1)

Project leader L. Stoltze
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 07/07-08/08
Awarded on Apr 24, 2007

NGFN-2 - Functional Genome Research for Human Health (01GS0468)

Project leader M. Jucker
Funding institution BMBF / DLR
Funding period 08/07-05/08
Awarded on Aug 2, 2007

Kompetenznetz degenerative Demenzen, KNDD (01G10705)

Project leader M. Jucker
Funding institution BMBF / DLR
Funding period 10/07-09/10
Awarded on Oct 4, 2007

APP fragments regulating synapse formation and elimination (AFI 07851)

Project leader T. Rasse
Funding institution Alzheimer Forschung Initiative e. V.
Funding period 01/08-10/09
Awarded on Oct 31, 2007

NGFN-Plus: Pathomechanism of Cerebral Amyloid Angiopathy

Project leader M. Jucker
Funding institution BMBF/DLR
Funding period 06/08-05/11
Awarded on Dec 3, 2007

Transgene Mausmodelle von familiärer britischer und dänischer Demenz: der Einfluss von nicht-A beta zerebraler Amyloidose und Angiopathie (JU 655/3-1)

Project leader M. Jucker, J. Coomaraswamy
Funding institution DFG
Funding period 01/08-12/10
Awarded on Dec 17, 2007

Scholarships for Alzheimer Research

Project leader M. Jucker
Funding institution Anonymous private donator
Funding period 01/08-
Awarded on Dec 19, 2007

Hertie-Stipendienprogramm Neurowissenschaften

Project leader Cecilia Duma
Funding institution Gemeinnützige Hertie-Stiftung
Funding period 03/07-08/08
Awarded on Feb 7, 2007

Independent Junior Research Group ■

Third-Party Funding - Independent Junior Research Group

New Grants awarded in 2007

The role of p53 tumor suppressor pathways in axon growth (fortune F.1311786)

Project leader S. Di Giovanni
Funding institution Medizinische Fakultät, Universität Tübingen
Funding period 01/07-12/08
Awarded on Jan 22, 2007

MDM2-p53 antagonists in axonal regeneration (1R21 NS052640-01A2)

Project leader S. Di Giovanni
Funding institution NIH
Funding period 03/07-02/09
Awarded on Mar 23, 2007

Enhancement of p53 activity (IRP-D-021/07)

Project leader S. Di Giovanni
Funding institution IRP Foundation
Funding period 08/07-07/09
Awarded on Apr 24, 2007

The regulation of the transcription factor p53 in neurite outgrowth and neuron differentiation (DI 1497/1-1)

Project leader S. Di Giovanni
Funding institution DFG
Funding period 03/07-02/09
Awarded on Nov 20, 2007

■ General Neurology

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■ Neurodegenerative Diseases

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Herzig MC, Paganetti P, Staufenbiel M, **Jucker M** (2007) BACE1 and mutated presenilin-1 differently modulate Abeta40 and Abeta42 levels and cerebral amyloidosis in APPDutch transgenic mice. *Neurodegener Dis* 4(2):127-35

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Kuhnke D, Jedlitschky G, Grube M, Krohn M, **Jucker M**, Mosyagin I, Cascorbi I, Walker LC, Kroemer HK, Warzok RW, Vogelgesang S (2007) MDR1-P-Glycoprotein (ABCB1) Mediates Transport of Alzheimer's amyloid-beta peptides-implications for the mechanisms of Abeta clearance at the blood-brain barrier. *Brain Pathol* 17(4):347-53

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Cellular Neurology / Independent Junior Research Group ■ ■

Shamy JL, Buckmaster CA, Amaral DG, **Calhoun ME**, Rapp PR (2007) Reactive plasticity in the dentate gyrus following bilateral entorhinal cortex lesions in cynomolgus monkeys. *J Comp Neurol* 502(2):192-201

Publications - Independent Junior Research Group

Original Articles

Annibali V, **Di Giovanni S**, Cannoni S, Giugni E, Bompreszi R, Mattei C, Elkahloun A, Coccia EM, Alfò M, Orzi F, Ristori G, Salvetti M (2007) Gene expression profiles reveal homeostatic dynamics during interferon-beta therapy in multiple sclerosis. *Autoimmunity* 40(1):16-22

Byrnes KR, Stoica BA, Fricke S, **Di Giovanni S**, Faden AI (2007) Cell cycle activation contributes to post-mitotic cell death and secondary damage after spinal cord injury. *Brain* 130(11):2977-92

■ General Neurology

Awards - Department of General Neurology

M. Weller

German Cancer Award, 2007

Appointments

R. Weissert

Head, Experimental Pathology, Geneva Research Center
Merck Serono International S.A. Geneva, Switzerland; appointment accepted

M. Weller

Ordinarius, Zürich; appointment accepted

PhD Theses

U. Feger

Phenotypische und funktionelle Charakterisierung HLA-G-exprimierender T-Zellen
(Faculty of Biology)
Supervisors: A. Melms, H-G. Rammensee

S. Dietrich

Vom Brüllen zum Wort -fMRT-Studien zur kognitiven Verarbeitung emotionaler Vokalisationen.
(Faculty of Psychology)
Supervisors: H. Ackermann

Medical Theses

S. Wintterle

Die Rolle neuer Kostimulationsmoleküle der B7-Familie in der Immunantwort.
(Medical Faculty)
Supervisor: A. Melms

Awards - Department of Neurodegenerative Diseases

T. Hasegawa

Postdoctoral Fellowship, Alexander von Humboldt Foundation

K. Holmström

Graduate Fellowship, NEUROTRAIN European Early Stage Research Training Programme

J. Waak

Travel Award, International Brain Research Organisation, World Congress of Neuroscience, Melbourne, Australia

O. Rothfuss

Poster Award of the German Society of Neurogenetics

A. Seibel

Poster Award of the German Society of Neurogenetics

Appointments

L. Schöls

Chair of the Department of Neurology, Ruhr-University Bochum; offer declined.

PhD Theses

S. Horn

Functional characterization of the interaction between Bex2 and torsinA, a protein involved in early-onset torsion dystonia

Supervisor: T. Gasser, C. Kamm, P. Kahle

M. Lang

Funktionelle Charakterisierung von Mutationen im Neurofilament M Gen bei der Parkinson-Krankheit (Biological Faculty)

Supervisor: R. Krüger

■ Cognitive Neurology

Awards - Department of Cognitive Neurology

E. Huberle, H-O. Karnath

Poster Award of the Deutsche Gesellschaft für Neurologie

PhD Theses

S. Butovas

Local synaptic effects of microstimulation in barrel cortex and pontine nuclei in the rat
Local synaptic effects of microstimulation in barrel cortex and pontine nuclei in the rat
(Graduate School for Neural and Behavioural Sciences)

Supervisor: C. Schwarz

F. Haiss

Contributions of motor cortex and thalamus to sensory processing during active and passive touch
(Graduate School for Neural and Behavioural Sciences)

Supervisor: C. Schwarz

A. Ignashchenkova

Neuronal mechanisms underlying covert shifts of attention
(Graduate School for Neural and Behavioural Sciences)

Supervisor: P. Thier

M.-L. Lee

Serotonergic modulation and its influence on signal processing at cellular level in deep cerebellar nuclei
neurons

(Graduate School for Neural and Behavioural Sciences)

Supervisor: V. Gauck

M. Stüttgen

Behavioral relevance of the rat vibrissal system and the neurophysiological basis of texture discrimination
(Graduate School for Neural and Behavioural Sciences)

Supervisor: C. Schwarz

Diploma/Master Theses

L. Burbulla

Die Antwort augenbewegungskorrelierter Neurone der Brückenkerne auf die Adaptation glatter Augenfolgebewegungen
Supervisor: P. Thier

M. Härtel

Studien zu Latenz, Dauer und Genauigkeit zielgerichteter Handbewegungen
Supervisor: U. J. Ilg

N. T. Herb

Machine Learning based feature extraction in video animations that induce the perception of animacy in primates
Supervisor: A. Nieder

N. Kuohn

Messung der Umsatzrate der pyramidalen Dornfortsätze ("Spines") im somatosensorischen Kortex der Maus als strukturelles Korrelat von Lernen und Gedächtnisbildung
Supervisor: C. Schwarz

I. Laube

Towards the neural substrates of social cognition. A combined psychophysical and fMRI study on the neural basis of head and gaze following in humans
Supervisor: P. Thier

K. Lloyd

Mapping Barrel Cortex
Supervisor: C. Schwarz

C. Mittag

Die Rolle des vestibulären Systems bei der Ausführung einer Gedächtnis-Sakkaden-Aufgabe, Anti-Sakkaden-Aufgabe und bei Angabe der subjektiven Vertikalen
Supervisor: P. Thier

F. Oddos

Dendritic spine turn over: a neuronal correlate of learning? Behavioral experiments and long term two-photon imaging in pyramidal neurons of the adult mouse barrel cortex
Supervisor: C. Schwarz

B. Sengupta

Noise based information theoretic analysis of the rat trigeminal ganglion
Supervisor: C. Schwarz

I. Zündorf

Master Neuronal and Behavioural Sciences
Supervisor: H.-O. Karnath

■ Cellular Neurology

Awards - Department of Cellular Neurology

J. Coomaraswamy

Hertie Research Prize 2007

C. Duma

Fellowship, Hertie-Stipendienprogramm Neurowissenschaften für Doktoranden aus Mittel- und Osteuropa
Gemeinnützige Hertie-Stiftung

Diploma Theses

Roman Beck

Untersuchung des Einflusses axonaler Transsportstörungen auf synaptische Defekte in *Drosophila melanogaster*
Supervisor: T. Rasse

Laila Behrends

Der Einfluss von APPL auf die Bildung und Stabilisierung von Synapsen
Supervisor: T. Rasse

Michael Knopp

OrthoExpress: Organismenübergreifende Expressionsanalysen aus multiplen Experimenttypen
Supervisor: T. Rasse

Bachelor Theses

Sandra Musch

Untersuchung der Stabilisierung von Synapsen in *Drosophila melanogaster*
Supervisor: T. Rasse

Jelena Rößle

Die Untersuchung von Neurodegeneration an der neuromuskulären Junction bei *Drosophila melanogaster*
Supervisor: T. Rasse

Master Thesis

Libo Yu

Untersuchung des Einflusses des biologischen Alters auf die Pathologie in einem *Drosophila*-Modell für APP-induzierte Neurodegeneration
Supervisor: T. Rasse

General Neurology / Cognitive Neurology ■ ■

Scientific Conferences - Department of Cellular Neurology

PÉCS-TÜBINGEN NEUROIMMUNOLÓGIAI NAPOK - PÉCS-TÜBINGEN NEUROIMMUNOLOGY DAYS 2007

Pecs, Ungarn, April 12-14, 2007

B. Greve, A. Melms, R. Weissert, Z. Illes

Jahrestagung der DGN, Symposium: „Das kognitive Kleinhirn -- Faktum oder Fiktion? „

Berlin, September, 2007

T. Haarmeier, P. Thier, Timmann-Braun (Essen)

Scientific Conferences - Department of Cognitive Neurology

ECEM Symposium „A modern view of the pursuit system“

Potsdam, August 19-24, 2007

U. J. Ilg

ECVP 2007 Symposium „From motor production to visual action perception“

Arezzo, August 27-31, 2007

A. Casile, M. A. Giese

Autumn School „Vision and Movement“

Wildbad-Kreuth, September 30-October 4, 2007

F. Bremmer, I. von Bülow, U. J. Ilg, K.-P. Hoffmann

Lectures

Lectures - Summer Term 2007

Principles of Neurology

Medical Faculty

Prof. M. Weller, Prof. T. Gasser, PD Dr. A. Luft

Introduction to Clinical Neurology

Medical Faculty

Prof. M. Weller, Prof. T. Gasser, Prof. A. Melms, PD Dr. T. Haarmeier, PD Dr. A. Luft

Curriculum "Intracranial Pressure"

Medical Faculty

Prof. A. Melms, PD Dr. A. Luft, PD Dr. J. Steinbach, Dr. F. Schmidt, Prof. M. Meyermann, PD Dr. T. Nägele, PD Dr. B. Will

Genetic and Molecular Basis of Neural Disease

Graduate School for Neural and Behavioural Sciences

Prof. M. Jucker, Prof. T. Gasser, PD Dr. A. Luft, Prof. M. Weller

Cellular and Molecular Biology of Neurons

Graduate School for Neural and Behavioural Sciences

Dr. N. Patenge

Methods in Molecular Neurobiology

Graduate School for Neural and Behavioural Sciences

Dr. F. Asmus, Dr. C. Kamm, Dr. N. Patenge

Behaviour and Cognition: Communication and Social Cognition

Graduate School for Neural and Behavioural Sciences

Dr. A. Nieder

Behaviour and Cognition: Visual Perception

Graduate School for Neural and Behavioural Sciences

Dr. M. Giese

Behaviour and Cognition: Neuropsychology

Graduate School for Neural and Behavioural Sciences

Prof. H.-O. Karnath

Fundamentals of Sensorimotor Integration

Faculty of Biology and Graduate School for Neural and Behavioural Sciences

Prof. Dr. U. Ilg

Neurodegenerative Disorders

Contribution to interdisciplinary lecture series: "Medicine of aging"

Prof. Dr. T. Gasser

Lectures / Seminars and Courses

Lectures - Winter Term 2007/2008

Principles of Neurology

Medical Faculty

Prof. M. Weller, Prof. T. Gasser, Prof. A. Melms

Introduction to Clinical Neurology

Medical Faculty

Prof. M. Weller, Prof. T. Gasser, PD Dr. A. Luft

Molecular and Cellular Biology

Graduate School for Neural and Behavioural Sciences

Dr. N. Patenge

Motor Systems

Graduate School for Neural and Behavioural Sciences

Prof. P. Thier

Neurophysiology

Graduate School for Neural and Behavioural Sciences

PD Dr. C. Schwarz, Dr. N. Pedroarena

Nerve Regeneration and Repair

Graduate School for Neural and Behavioural Sciences

Dr. S. Di Giovanni

Seminars and Courses - Summer Term 2007

Neurological Examination

Medical Faculty

Prof. M. Weller, Prof. T. Gasser, PD Dr. T. Haarmeier

and staff of the Departments of General Neurology and Neurodegenerative Diseases

Neurology Seminar

Medical Faculty

Prof. L. Schöls, Prof. A. Melms, PD Dr. R. Krüger, PD Dr. T. Haarmeier

Introduction to Clinical Medicine

Medical Faculty

Dr. F. Bischof

Contributions to i-KliC „Intracranial Pressure/Stroke“

Medical Faculty

Prof. A. Melms, PD Dr. A. Luft, PD Dr. J. Steinbach, Dr. F. Schmidt, Prof. M. Meyermann, PD Dr. T. Nägele,

PD Dr. B. Will

Contributions to i-KliC „Hepatology, Infectious Diseases and Rheumatology“

Medical Faculty

Prof. A. Melms

Seminars and Courses

Lunch Conference: Critical Care Neurology

Medical Faculty
PD Dr. A. Luft, J. Erharhaghen

TüKliS „Treatment of Neurological Disorders/Case Presentations“

Medical Faculty
PD Dr. D. Berg, PD Dr. T. Haarmeier, PD Dr. R. Krüger, PD Dr. A. Luft, Prof. A. Melms, Prof. L. Schöls,
PD Dr. J. Steinbach, Prof. M. Weller

TüKliS “Bedside Teaching”

Medical Faculty
Prof. A. Melms

TüKliS “Imaging Techniques in Neurosciences”

Medical Faculty
PD Dr. D. Berg

TüKliS „Movement Disorders“

Medical Faculty
Prof. T. Gasser, PD Dr. D. Berg, Prof. L. Schöls

TüKliF „Trinucleotide Repeat Disorders“

Medical Faculty
Prof. L. Schöls, Dr. T. Schmidt, Dr. P. Bauer

Current Problems in Diagnosis and Treatment of Neurodegenerative Disorders

Medical Faculty
Prof. T. Gasser, Prof. L. Schöls

Current Trends in Neuro-oncology

Medical Faculty
PD Dr. U. Naumann, Prof. M. Weller

Interdisciplinary Brain Tumor Seminar (in cooperation with the Departments for Neurosurgery, Neuroradiology, and Radiooncology)

Medical Faculty
PD Dr. J. Steinbach, Prof. M. Weller

Neuroscience Lecture Series

Medical Faculty
Prof. M. Weller

Neuropathological Case Presentation (in cooperation with the Institute for Brain Research)

Medical Faculty
PD Dr. J. Steinbach, Prof. M. Weller

Interdisciplinary Pain Seminar (in cooperation with the Clinic for Anaesthesiology and Clinic for Neurosurgery)

Medical Faculty
PD Dr. J. Steinbach

Seminars and Courses

Journal Club Neuroimmunology

Medical Faculty

Dr. K. de Graaf, Prof. A. Melms, Prof. R. Weissert

Research Seminar Experimental Neurogenetics

Medical Faculty

Prof. T. Gasser, Prof. L. Schöls, PD Dr. D. Berg, Dr. F. Asmus, Dr. N. Patenge

Neurobiologisches Montagskolloquium

Medical Faculty

Prof. U. Ilg, Prof. P. Thier

Current Problems of Sensorimotor Integration

Medical Faculty

Prof. U. Ilg, PD Dr. J. Schwarz, Prof. P. Thier

Current Problems in Neuropsychology

Medical Faculty

Prof. H.-O. Karnath

Neurobiology of the Cerebellum

Medical Faculty

Dr. P. Dicke, PD Dr. C. Schwarz, Prof. P. Thier

Executive Functions and the Frontal Lobe

Graduate School for Neural and Behavioural Sciences

Dr. A. Nieder

GKKK Graduate Research Training Program on Cognitive Neurobiology

Graduate Research Training Program on Cognitive Neurobiology

Prof. H.-P. Karnath

Neurokolloquium Tübingen

SFB 550, Hertie Institute for Clinical Brain Research, MPI for Biological Cybernetics, Graduate School for Neural and Behavioural Sciences

Prof. P. Thier

Current Concepts in Oculomotor Function

Faculty of Biology

Prof. U. Ilg

Tierphysiologischer Kurs Bioinformatik

Faculty of Biology

Prof. U. Ilg

Pharmacotherapy of Parkinson's Disease

Contribution to interdisciplinary lecture series: "Pharmacology"

Prof. L. Schöls

Brain slices as tools in neurobiology

Graduate School for Neural and Behavioural Sciences

PD Dr. C. Schwarz, Dr. C. Pedroarena

Seminars and Courses

Seminars and Courses - Winter Term 2007/2008

Neurological Examination

Medical Faculty

Prof. M. Weller, Prof. A. Melms, Prof. T. Gasser, PD Dr. T. Haarmeier
and staff of the Departments of General Neurology and Neurodegenerative Diseases

Neurology Seminar

Medical Faculty

Prof. L. Schöls, Prof. A. Melms, Prof. D. Berg, PD Dr. R. Krüger, PD Dr. T. Haarmeier

Introduction to Clinical Medicine

Medical Faculty

PD Dr. F. Bischof

Contributions to i-KliC „Intracranial Pressure/Stroke“

Medical Faculty

Prof. A. Melms, PD Dr. A. Luft, Dr. F. Schmidt, Dr. J. Rieger

TüKliS „Treatment of Neurological Disorders/Case Presentations“

Medical Faculty

Prof. D. Berg, PD Dr. T. Haarmeier, PD Dr. R. Krüger, PD Dr. A. Luft, Prof. A. Melms, Prof. L. Schöls, Prof. M. Weller

Lunch Conference: Critical Care Neurology

Medical Faculty

PD Dr. A. Luft, J. Erharhagen

TüKliS “Bedside Teaching” in Neurology

Medical Faculty

Prof. A. Melms

TüKliS „Clinical Neurogenetics“

Medical Faculty

Prof. L. Schöls, PD Dr. D. Berg, Prof. T. Gasser

Current Problems in Diagnosis and Treatment of Neurodegenerative Disorders

Medical Faculty

Prof. T. Gasser, Prof. L. Schöls

Current Trends in Neuro-Oncology

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Dr. U. Naumann, Prof. M. Weller

Seminars and Courses

Interdisciplinary Brain Tumor Seminar

(in cooperation with the Departments for Neurosurgery, Neuroradiology, and Radiooncology)

Medical Faculty

PD Dr. J. Steinbach, Dr. J. Rieger, Prof. M. Weller

Neuroscience Lecture Series

Medical Faculty

Prof. M. Weller

Neuropathological Case Presentation (in cooperation with the Institute for Brain Research)

Medical Faculty

PD Dr. J. Steinbach

Interdisciplinary Pain Seminar

(in cooperation with the Clinic for Anaesthesiology and Clinic for Neurosurgery)

Medical Faculty

PD Dr. J. Steinbach, Dr. S. Schuh-Hofer, Prof. M. Weller

Journal Club Neuroimmunology

Medical Faculty

Dr. K. de Graaf, Prof. A. Melms

Research Seminar Experimental Neurogenetics

Medical Faculty

Prof. T. Gasser, Prof. L. Schöls, PD Dr. D. Berg, Dr. F. Asmus, Dr. N. Patenge

Neurobiologisches Montagskolloquium

Medical Faculty

Prof. U. Ilg, Prof. P. Thier

Current Problems of Sensorimotor Integration

Medical Faculty

Prof. U. Ilg, PD Dr. J. Schwarz, Prof. P. Thier

Current Problems in Neuropsychology

Medical Faculty

Prof. H.-O. Karnath

Neurobiology of the Cerebellum

Medical Faculty

Dr. P. Dicke, PD Dr. C. Schwarz, Prof. P. Thier

Clinical Neuropsychology

Medical Faculty

Prof. H.-O. Karnath

Seminars and Courses / Lab Rotations

Practical Course 'Sensomotorik'

Medical Faculty, Graduate School for Neural and Behavioural Sciences
PD Dr. C. Braun, Prof. U. Ilg, Dr. A. Nieder, Prof. P. Thier, Dr. A. Werner

Practical Course 'Motor Unit'

Graduate School for Neural and Behavioural Sciences
Dr. Beykirch, Prof. U. Ilg, PD. Dr. C. Schwarz, Prof. P. Thier

Neurokolloquium Tübingen

SFB 550, Hertie Institute for Clinical Brain Research, MPI for Biological Cybernetics, Graduate School for Neural and Behavioural Sciences
Prof. P. Thier

Current Concepts in Oculomotor Function

Faculty of Biology
Prof. U. Ilg

Practical Course 'Animal Physiology'

Faculty of Biology
Prof. U. Ilg, Dr. A. Nieder

Lab Rotations - Summer Term 2007

Graduate School for Neural and Behavioural Sciences
Dr. F. Asmus, Dr. M. Giese, Dr. C. Kamm, Dr. A. Luft, Dr. N. Patenge, Dr. C. Pedroarena

Lab Rotations - Winter Term 2007/2008

Graduate School for Neural and Behavioural Sciences
Dr. F. Asmus, Dr. C. Kamm, Dr. N. Patenge, Dr. C. Pedroarena

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