

Annual Report 2018





CENTER OF NEUROLOGY TÜBINGEN

Annual Report 2018

DIRECTORS

Prof. Dr. Thomas Gasser
Prof. Dr. Mathias Jucker
Prof. Dr. Holger Lerche
Prof. Dr. Peter Thier
Prof. Dr. Ulf Ziemann

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



Hertie-Institut
für klinische Hirnforschung



Universitätsklinikum
Tübingen



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The Center of Neurology in 2018

The Center for Neurology at the University of Tübingen was founded in 2001. It unites the Hertie Institute for Clinical Brain Research (HIH) and the University Hospital's Clinical Neurology Department. In research, teaching and patient care the center is dedicated to excellence in the study of the human brain and its disorders.

The Center for Neurology presently consists of five departments: Department of Neurology with Neurovascular Medicine and Neuro-Oncology (Prof. Dr. med. Ulf Ziemann), Department of Neurodegenerative Diseases (Prof. Dr. med. Thomas Gasser), the Department of Neurology and Epileptology (Prof. Dr. med. Holger Lerche), the Department of Cognitive Neurology (Prof. Dr. med. Hans-Peter Thier) and the Department of Cellular Neurology (Prof. Dr. sc. nat. Mathias Jucker). All departments provide patient care within the University Hospital, while the clinical and basic research groups are part of the Hertie Institute.

The fact that all departments of the center actively participate, albeit to a different degree, in the clinical care of patients with neurologic diseases is central to the concept of successful clinical brain research at the Hertie Institute.

This applies most obviously to clinical trials, which are conducted, for example, in the treatment of Parkinson's disease, multiple sclerosis, epilepsy and brain tumors. However, the intimate interconnection of science and patient care is of eminent importance to all areas of disease-related neuroscientific research. It forms the very center of the Hertie concept and distinguishes the Center for Neurology from other neuroscience institutions. In particular, the close interaction between basic science and patient care at the HIH and the University Hospital's Clinical Neurology Department was seen as a role model for clinical and translational research in Germany by the German Council of Science and Humanities (Wissenschaftsrat).

Mit dem im Jahre 2001 unterzeichneten Vertrag zwischen der Gemeinnützigen Hertie-Stiftung (GHS) und dem Land Baden-Württemberg, der Universität Tübingen und ihrer medizinischen Fakultät sowie dem Universitätsklinikum Tübingen wurde das „Zentrum für Neurologie“ geschaffen. Damit entstand eines der größten Zentren für klinische und krankheitsorientierte Hirnforschung in Deutschland.

Das Zentrum besteht aus zwei eng verbundenen Institutionen, der Neurologischen Klinik und dem Hertie-Institut für klinische Hirnforschung (HH). Die Aufgaben des Zentrums liegen sowohl in der Krankenversorgung durch die Neurologische Klinik als auch in der wissenschaftlichen Arbeit der im HH zusammengeschlossenen Forscher. Die besonders enge Verknüpfung von Klinik und Grundlagenforschung innerhalb jeder einzelnen Abteilung und die Department-Struktur sind fundamentale Aspekte des Hertie-Konzeptes und ein Alleinstellungsmerkmal gegenüber anderen Institutionen der Hirnforschung in Deutschland. In der Department-Struktur sind die Professoren mit Leitungsfunktion akademisch und korporationsrechtlich gleichgestellt.

Das Zentrum besteht derzeit aus fünf Abteilungen: Abteilung Neurologie mit Schwerpunkt neurovaskuläre Erkrankungen und Neuroonkologie (Prof. Dr. med. Ulf Ziemann), der Abteilung Neurologie mit Schwerpunkt neurodegenerative Erkrankungen (Prof. Dr. med. Thomas Gasser), der Abteilung Neurologie mit Schwerpunkt Epileptologie (Prof. Dr. med. Holger Lerche), der Abteilung Kognitive Neurologie (Prof. Dr. med. Hans-Peter Thier) und der Abteilung für Zellbiologie Neurologischer Erkrankungen (Prof. Dr. sc. nat. Mathias Jucker). Die ersten drei Genannten sind bettenführende Abteilungen in der Neurologischen Klinik, die beiden Letztgenannten sind an der Patientenversorgung im Rahmen von Spezialambulanzen beteiligt. Die klinischen Abteilungen sind für die Versorgung von Patienten mit der gesamten Breite neurologischer Erkrankungen gemeinsam verantwortlich. Die Einheit der Neurologischen Klinik in Lehre, Ausbildung und Krankenversorgung wird dabei durch eine gemeinsame Infrastruktur (Patientenaufnahme, Behandlungspfade, Poliklinik, diagnostische Labors, Bettenmanagement, Pflegedienst gesichert. Die Neurologische Klinik besteht daher nach innen und außen weiterhin als einheitliche Struktur. In den klinischen Abteilungen werden pro Jahr rund 5.500 Patienten stationär und mehr als 15.000 Patienten ambulant behandelt.

Der Wissenschaftsrat hat das Zentrum als modellhaft für die Universitätsmedizin in Deutschland gewürdigt und insbesondere die praktizierte Verbindung von Grundlagenforschung und klinischer Praxis.

Facts & Figures

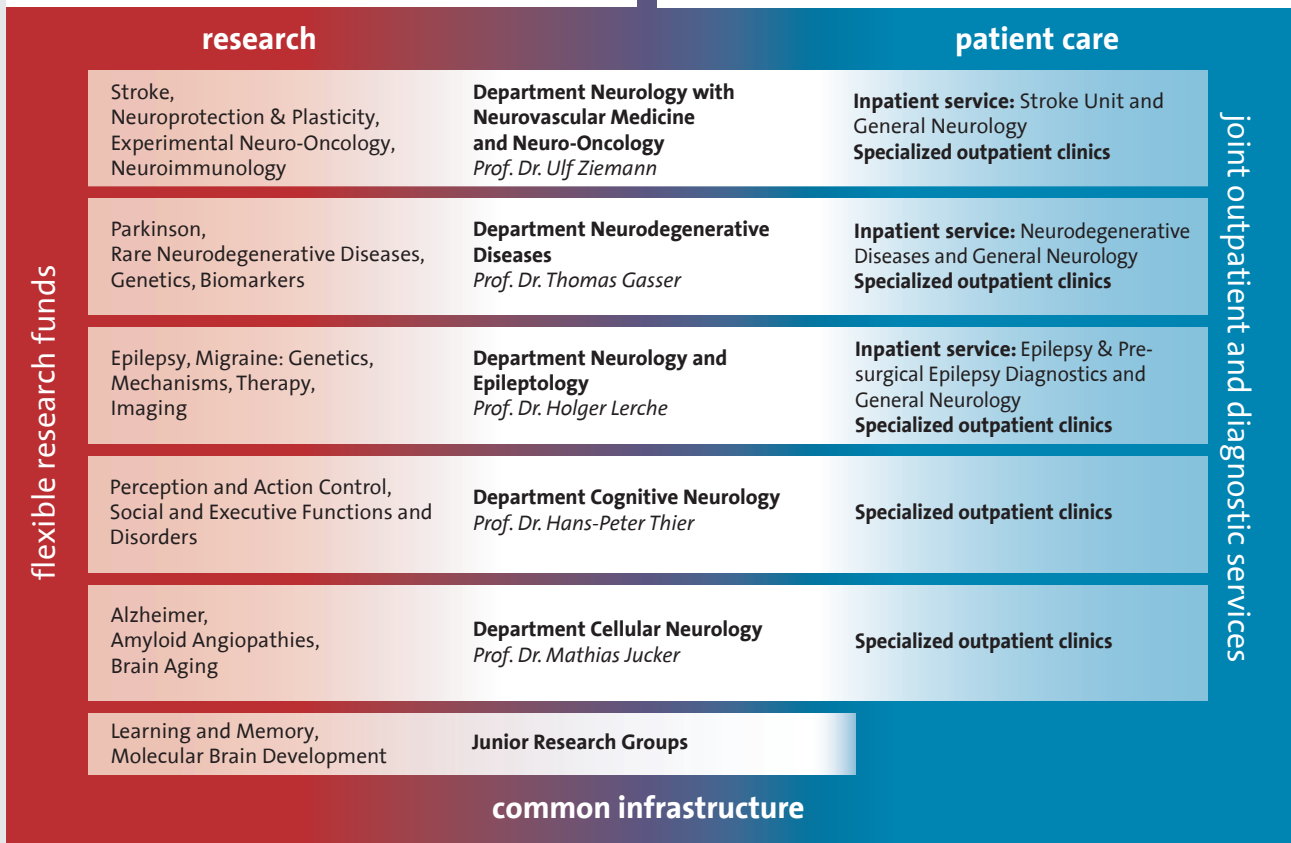
CENTER OF NEUROLOGY



Hertie-Institut
für klinische Hirnforschung

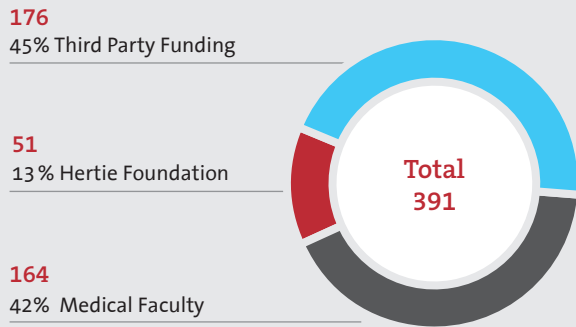


Universitätsklinikum
Tübingen



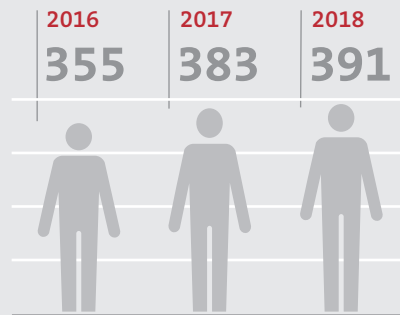
NUMBER OF STAFF IN 2018

Center of Neurology without nursing services (by headcount)



DEVELOPMENT OF STAFF

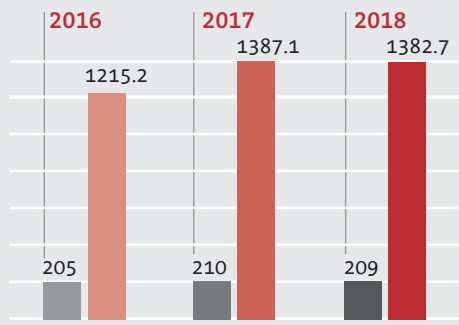
Center of Neurology (by headcount)



NUMBER OF PUBLICATIONS

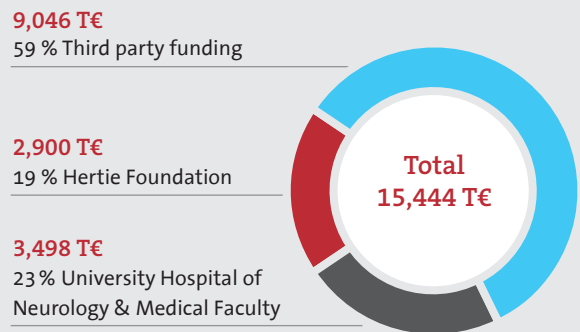
IMPACT FACTORS

Center of Neurology (SCIE and SSCI/ in 100 %)



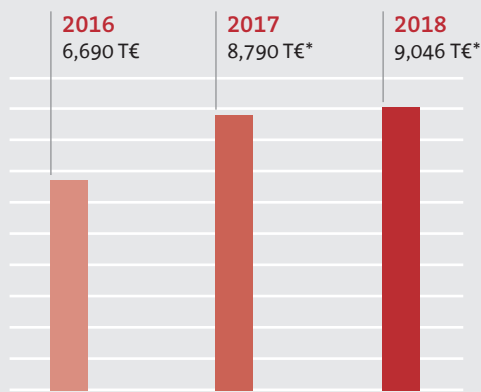
TOTAL FUNDINGS IN 2018

Center of Neurology



THIRD PARTY FUNDING

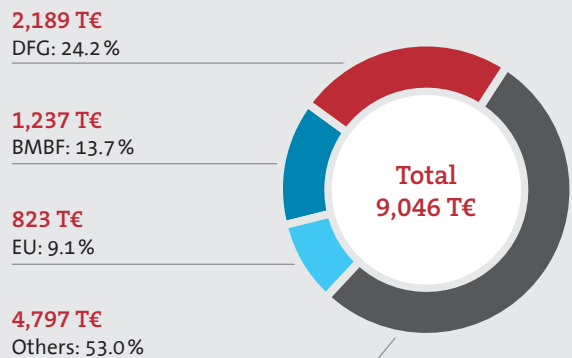
Center of Neurology



* includes 1 Mio € from the state of Baden-Württemberg

THIRD PARTY FUNDING IN 2018

Center of Neurology





University Hospital of Neurology

CLINICAL CARE

The University Hospital's Clinic of Neurology treats inpatients with the complete spectrum of neurologic diseases on three general wards. Patients with acute strokes are treated on a specialized certified stroke-unit, which allows 24-hour surveillance and treatment. Neurointensive-care patients are treated in a cooperative model on intensive care units of the University Hospital. A specialized video-EEG-monitoring unit allows continuous long-term recordings for patients with intractable epilepsies.

In the outpatient unit of the clinic more than 15,000 patients (including diagnostic procedures) are examined and treated every year, most of them in specialty clinics which are directed by recognized specialists in their respective fields.



**Universitätsklinikum
Tübingen**

PATIENTENVERSORGUNG

Die Neurologische Klinik am Universitätsklinikum Tübingen behandelt Patienten mit dem gesamten Spektrum neurologischer Erkrankungen auf drei Allgemeinstationen. Patienten mit akuten Schlaganfällen werden auf einer zertifizierten Schlaganfall-Spezialstation („Stroke-Unit“) behandelt, die rund um die Uhr die erforderlichen Überwachungs- und Therapiemaßnahmen erlaubt. Neurointensiv-Patienten werden in einem kooperativen Modell auf Intensivstationen im Universitätsklinikum behandelt. Daneben gibt es eine spezielle Einheit zur kontinuierlichen Langzeit-Video-EEG-Ableitung (EEG-Monitoring) für Patienten mit schwer behandelbaren Epilepsien.

In der neurologischen Poliklinik werden jährlich über 15.000 Patienten (inkl. diagnostischer Prozeduren) ambulant betreut, die meisten davon in Spezialambulanzen, die von ausgewiesenen Experten für die jeweiligen Erkrankungen geleitet werden.

Clinical Performance Data

Close monitoring of patients at the intensive care unit.



INPATIENT CARE

The inpatient units of the University Hospital of Neurology treated more than 5,400 patients in 2018.

NUMBER OF ADMISSIONS

5,422

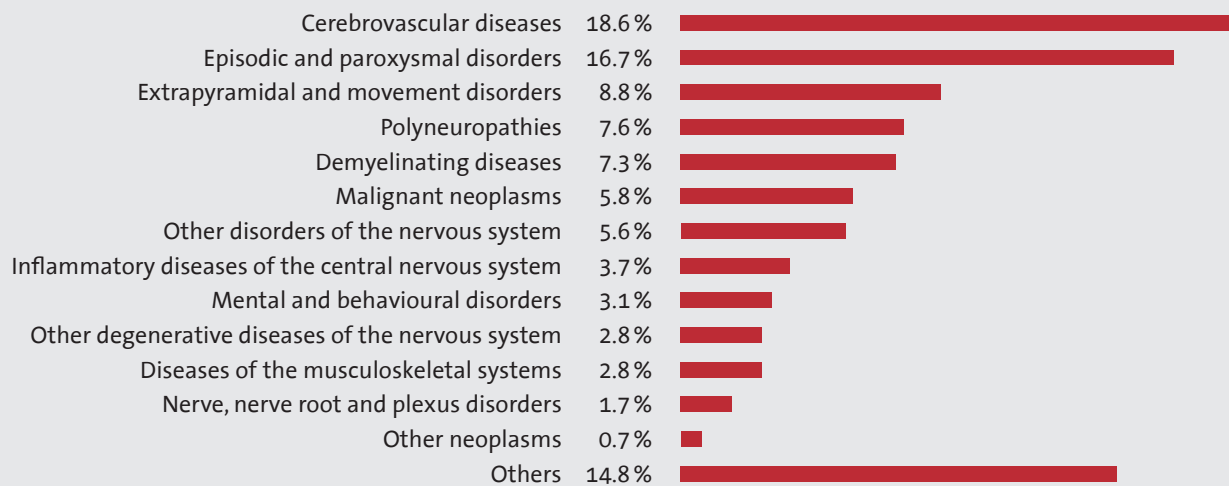
LENGTH OF STAY (IN DAYS)

4.7

CASE-MIX-INDEX

1.45

INPATIENT DIAGNOSIS GROUPS



OUTPATIENT CARE

NUMBER OF CONSULTATIONS

(including diagnostic procedures)

15,250



The Hertie Institute for Clinical Brain Research (HIH)



Hertie-Institut
für klinische Hirnforschung

Since its founding 17 years ago, the Hertie Institute has grown to more than 390 employees at all levels, from technicians to PhD students to full professors. The institute's achievements include discoveries related to the molecular, genetic and physiological basis of a number of major neurologic diseases.

The institute presently consists of five departments. They combine basic and clinical research with patient care, albeit to different degrees and with variable emphasis: three departments focusing on Stroke and Neuro-Oncology, Epileptology, and Neurodegenerative Disorders treat outpatients in specialty clinics, but also inpatients with the whole spectrum of neurological diseases, while the Departments of Cognitive Neurology and Cellular Neurology provide specialized diagno-

stic services and care in an outpatient setting only, focusing on neuro-cognitive impairments and Alzheimer's disease, respectively.

The institute is home to a total of 19 professors and 28 research groups. Twenty-six belong to the aforementioned departments, two are set up as independent research groups. The independent research group of Dr. Simone Mayer has joined the HIH since September 2018, investigating molecular mechanisms of brain development.

In 2018, scientists at the Center for Neurology obtained more than 9 million Euros in third party funding and published more than 200 papers in peer-reviewed journals.



For the second time, the Hertie Institute for Clinical Brain Research (HIH) was present with an information booth at the annual meeting of the Society of Neuroscience in San Diego, USA, from November, 3 to 7, 2018. At the joint booth “Neuroscience in Germany”, the HIH presented its portfolio together with other neuroscientific institutions, networks and funding organizations. In addition, the HIH presented itself at the FENS Forum for Neuroscience in Berlin, which took place from July 7 to 11, 2018. A joint information booth „Neurocentres in Germany“ was launched for this purpose, presenting clusters of excellence in the neurosciences and the Einstein Center in Berlin next to the HIH and the non-profit Hertie Foundation.

The Neuroscience Campus Get Together, which was jointly set up together with its neighbors, the German Center for Neurodegenerative Diseases (DZNE) and the Werner Reichardt Center for Integrated Neuroscience (CIN) in the year 2015 and has continued since then on a yearly basis, met again with great success among scientists and staff members in 2018. On the same day, July 19, 2018, the Tübingen Neuro-Campus (TNC) has been inaugurated. The TNC is intended to interconnect Tübingen research groups and institutions in the field of neuroscience, to promote scientific cooperation and to facilitate the internationalization and recruitment of excellent scientists. Building on a long and successful tradition in the neurosciences, the TNC will secure and further develop Tübingen’s position among the international leading sites.

Prof. Dr. Thomas Gasser
 Prof. Dr. Mathias Jucker
 Prof. Dr. Holger Lerche
 Prof. Dr. Peter Thier
 Prof. Dr. Ulf Ziemann

Das Hertie-Institut für klinische Hirnforschung (HIH)

17 Jahre nach seiner Gründung durch die Gemeinnützige Hertie-Stiftung, die Universität Tübingen und das Universitätsklinikum Tübingen gehört das HIH auf dem Gebiet der klinischen Hirnforschung zum Spitzenfeld europäischer Forschungseinrichtungen. Herausragende Forschungsergebnisse haben das Institut auch über die Grenzen Europas hinaus bekannt gemacht.

Das HIH besteht derzeit aus fünf Abteilungen: der Abteilung Neurologie mit Schwerpunkt neurovaskuläre Erkrankungen und Neuroonkologie (Prof. Dr. med. Ulf Ziemann), der Abteilung Neurologie mit Schwerpunkt neurodegenerative Erkrankungen (Prof. Dr. med. Thomas Gasser), der Abteilung Neurologie mit Schwerpunkt Epileptologie (Prof. Dr. med. Holger Lerche, der Abteilung Kognitive Neurologie (Prof. Dr. med. Hans-Peter Thier) und der Abteilung für Zellbiologie Neurologischer Erkrankungen (Prof. Dr. sc. nat. Mathias Jucker). Die ersten drei Genannten sind bettenführende Abteilungen in der Neurologischen Klinik, die beiden Letztgenannten sind an der Patientenversorgung im Rahmen von Spezialambulanzen beteiligt. Die klinischen Abteilungen sind für die Versorgung von Patienten mit der gesamten Breite neurologischer Erkrankungen gemeinsam verantwortlich.

In den Abteilungen sind zurzeit 19 Professoren und etwa 390 Mitarbeiter in 28 Arbeitsgruppen tätig, wovon zwei unabhängige Forschungsgruppen darstellen. Die unabhängige Forschungsgruppe von Dr. Simone Mayer verstärkt seit September 2018 das HIH. Sie untersucht die molekularen Mechanismen der Gehirnentwicklung.

Die Arbeitsschwerpunkte des HIH liegen im Bereich neurodegenerativer und entzündlicher Hirnerkrankungen, der Schlaganfallforschung, Epilepsien und der Erforschung der Grundlagen und Störungen von Wahrnehmung, Motorik und Lernen. Zu den bedeutenden Forschungserfolgen des HIH zählen die Entdeckung wichtiger genetischer und molekularer Grundlagen der Entstehung und Progression neurologischer Erkrankungen. Das HIH, ein Modellprojekt für Public Private Partnership, hat auch im Jahr 2018 rund 9 Millionen Euro an Drittmitteln eingeworben und mehr als 200 Veröffentlichungen in wissenschaftlichen Fachzeitschriften publiziert. Diese Zahlen belegen unter anderem die wissenschaftliche Leistungsfähigkeit des Zentrums. Die Gemeinnützige Hertie-Stiftung wendete bisher annähernd 60 Millionen Euro für das HIH auf und plant ihre Förderung fortzusetzen.



In den Abteilungen sind zurzeit 19 Professoren und etwa 390 Mitarbeiter in 28 Arbeitsgruppen tätig. Die Gemeinnützige Hertie-Stiftung wendete bisher annähernd 60 Millionen Euro für das HIH auf und plant ihre Förderung fortzusetzen.

Das Hertie Institut für klinische Hirnforschung (HIH) war 2018 zum zweiten Mal mit einem Informationsstand auf der Jahrestagung der Society of Neuroscience vom 3. bis 7. November 2018 in San Diego, USA, vertreten. Unter dem Titel „Neuroscience in Germany“ stellte das Institut gemeinsam mit anderen neurowissenschaftlichen Einrichtungen und Verbänden, sowie Förderorganisationen seine Inhalte und Angebote vor. Darüber hinaus präsentierte sich das HIH auf dem FENS Forum for Neuroscience in Berlin, das vom 7. bis 11. Juli 2018 stattfand. Hierfür wurde der Gemeinschaftsstand „Neurocenters in Germany“ ins Leben gerufen, an dem neben dem HIH und der Gemeinnützigen Hertie-Stiftung die neurowissenschaftlichen Exzellenzcluster und das Einstein-Zentrum in Berlin teilnahmen.

Das Neuroscience Campus Get Together, das gemeinsam mit seinen Nachbarn, dem Deutschen Zentrum für Neurodegenerative Erkrankungen (DZNE) und dem Werner Reichardt Centre for Integrated Neuroscience (CIN), im Jahr 2015 initiiert und seitdem jährlich fortgeführt wurde, stieß auch im Jahr 2018 auf großen Erfolg bei Wissenschaftler/innen und Mitarbeiter/innen. Am gleichen Tag, dem 19. Juli 2018, fand die feierliche Einweihung des TübingenNeuroCampus (TNC) statt. Der TNC soll neurowissenschaftliche Arbeitsgruppen und Einrichtungen am Standort Tübingen vernetzen, wissenschaftliche Kooperationen fördern und die Internationalisierung und Rekrutierung von exzellenten Wissenschaftler/innen erleichtern. Aufbauend auf der langen und erfolgreichen Tradition im Bereich der Neurowissenschaften soll dadurch die Stellung Tübingens unter den internationalen Spitzenstandorten gesichert und ausgebaut werden.

*Prof. Dr. Thomas Gasser
Prof. Dr. Mathias Jucker
Prof. Dr. Holger Lerche
Prof. Dr. Peter Thier
Prof. Dr. Ulf Ziemann*

University Hospital of Neurology



Clinical Staff

HEAD OF NURSING SERVICES

Dr. Renate D. Fuhr
(Head of Nursing Services)

Susanne Fallscheer
(Deputy Head of Nursing Services)

Adriana Hurcikova
(Division Manager, Ward 42/43/45)

Olga Krämer
(Deputy Division Manager,
Ward 42/43/45)

Gerda Weise
(Ward Manager, Ward 44)

Marc-Sebastian Haug
(Deputy Ward Manager, Ward 44)

WARD 42

Diana Arko
Irene Brady
Mark Canoy
Olga Degraf
Annette Eisele
Karl Andrew Gallar
Joann Gallo
Corinna Kalmbach-Ftits
Gabriele Kern-Braun
Renate Maier-Korneck
Bettina Mollenhauer
Lisa Nickel
Iris Sadowski
Sarah Schneider
Ulrike Schweizer
Gudrun Siegl
Birgit Weimar

WARD 43

Jane Buo
Johanna Eisele
Isaac Emwinghare
Karola Fröhlich
Tatjana Graz
Fatima Hammami
Werner Hansen
Sigrid Herter
Michael Heymann
Sevbenur Ibrahimova
Beate Kloster
Andrea Langmann
Annika Löweke
Kevin Lux
Alisa Mansour-Tokovic
Banu Sahin
Katrin Schindl
Anja Siegle
Katharina Wehner
Nadine Wolter

WARD 44 INTENSIVE CARE/ STROKE UNIT

Andrea Albrecht
Nina Begemann
Karin Brunner
Jane Buo
Ana-Maria Cheregi
Ebrar Döger
Adriana Digirolamo
Daniel Fuente Friend
Laura Gabriele
Tobias Göttermann
Susanne Grumann
Carmen Haag
Frank Hauber
Kathrin Haug
Marc-Sebastian Haug
Lea Heinzelmann
Yvonne Horz-Weger
Regina Johner
Sandra Kästner
Petra Kaschowitz
Lothar Kunz
Ines Lange
Christine Löffler
Giusi Marchese
Christine Moosmann
Birgit Moryson
Petra Nipprasch
Simone Ochieng
Gloria Peth
Christine Reuter
Jane Reutter
Claudia Romeikat
Thomas Rottmann
Mirjam Schafer
Simon Schippmann
Johann Schmuck
Lena Seelmann
Annette Silber
Brigitte Steinau
Tanja Striebich
Armin Teubert
Angelika Weber
Gerda Weise
Bettina Weisser
Eva Wener-Buck
Dieter Zeller
Michelle Zimmermann
Ulrike Zimmermann

WARD 45

Luther Basa
Meike Besser
Önder Bilen
Roslyn Chin
Friedhelm Chmell
Michelle Dupke
Rebecca Fais
Maria Flohr
Jay Carl Garcia
Alice Hoffmann
Tobias Illhardt
Eva Kern
Dorothe Pacholleck
Nicole Steiner
Sina Westbomke
Stephanie Zanfardino

NURSING ASSISTANTS

Amira Kulu
Charlotte Ammer
Lea Bernhardt
Gesa Binzenbach
Antonija Ema Gujic
Lisa Herrmann
Christian Hunger
Maximilian Jaron
Stefan Benjamin Kaminsky
Anna Tamina Lang
Gabriele Layla
Emely Paul
Carolyn Schmitt
Clarissa Schwarzer
Daniel Ganter
Nikolina Herceg
Susanne Oberländer
Merlin Stuber
Janine Siquoir

WARD ASSISTANTS

Nicole Braun
Simone Dettinger
Stefanie Müllerschön
Sandra Sailer

CASE/OCCUPANCY MANAGEMENT

Silvia Clement
Christine Rebenschütz
Michael Schütz-Böger
Christina Tomschitz
Isabel Utsch-Sellnow

TECHNICIANS

Sandra Berger (EMG)
Fridos Bouraima (EEG)
Margarete Dengler (Nurse)
Anke Deutsch (EP)
Evelyn Dubois (CFS Chemistry)
Maximilian Früchel
(Neurosonography)
Irina Köhnlein (Nurse)
Renate Mahle (EEG Neurosonography)
Veronika Serwotka
(Nerve conduction)
Elke Stransky (CSF Chemistry)
Kathrin Vohrer (EEG, EP)
Julia Wittlinger
(Neurosonography, EP)
Barbara Wörner (EEG)

SECRETARIES

Ina Baumeister
Yvonne Brändle
Jutta Eymann
Dagmar Heller-Schmerold
Sabrina Kreiser
Isolde Marterer
Christine Riegraf
Susanne Stimmler
Diana Thomma
Doris Wieder

MEDICAL DOCUMENTATION

Horst Feuerbacher
Dr. Katharina Friebe (until 06/2018)
Melanie Liebscher
Dr. Christina Lipski (since 07/2018)
Martina Pabst
Christina Tröger

Department of Neurology with Neurovascular Medicine and Neuro-Oncology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Ulf Ziemann

GROUP LEADERS/ATTENDING PHYSICIANS

Prof. Dr. Hermann Ackermann
Dr. Rainer Greulich (Cardiologist)
Dr. Markus Kowarik
PD Dr. Markus Krumbholz
Prof. Dr. Arthur Melms (5%)
Dr. Annerose Mengel
Dr. Florian Müller-Dahlhaus (10%, until 04/2018)
Prof. Dr. Ulrike Naumann
Dr. Sven Poli, MSc
PD Dr. Mirjam Renovanz (since 10/2018)
Dr. Johannes Rieger (5%)
Dr. Dennis Schlak (50%, until 09/2018)
Prof. Dr. Dr. Ghazaleh Tabatabai
(Interdisciplinary Division of Neuro-Oncology)

SCIENTISTS/RESIDENTS

Dr. Ahmed Abdelhak (since 03/2018)
Dr. David Baur
Dr. Paolo Belardinelli
Dr. Til Ole Bergmann (5%, since 10/2018)
Dr. Corinna Blum
Elisabeth Braun (née Rexer)
Dr. Mohamed Yasser Elnaggar
Dr. Irina Gepfner-Tuma
Dr. Pedro Caldana Gordon
Dr. Parameswari Govindarajan
Florian Härtig
Prof. Dr. Ingo Hertrich
Sophie Hirsch (since 04/2018)
Dr. Marilyn Koch
Noemi Maros (until 09/2018)
Daniel Merk (since 10/2018)
Dr. Margarethe Paech (50%, until 12/2018)
Dr. med. univ. Elisa Pichler (since 12/2018)
Dr. Khoulood Poli (née Nafaa)
Dr. Justyna Przystal
Dr. Hardy Richter
Dr. Christina Roggia (until 06/2018)
Dr. Christoph Ruschil
Jennifer Sartor (since 02/2018)
Dr. Natalie Schaworonkow
Patricia Schwarz (since 09/2018)
Vera Stadler
Maria-Ioanna Stefanou
Dr. Mihály Sulyok (until 09/2018)
Dr. Johannes Tünnerhoff
Dr. Brigitte Zrenner
Dr. Christoph Zrenner

TECHNICAL STAFF/ADMINISTRATION

Marcel Armbruster
 Ulrike Baumann (since 08/2018)
 Sabrina Baumeister (until 08/2018)
 Dipl.-Ing. Rüdiger Berndt (Electronics,
 together with the Dept. of Cognitive Neurology)
 Evelyn Dubois
 Sandra Gäßler-Kegelman, MBA
 Sarah Hendel
 Marion Jeric
 Anna Kempf
 Gabriele Kuebart
 Matthias Scholl
 Elke Stransky
 Julia Zeller

PHD STUDENTS

Denis Canjuga (Supervisor Prof. Dr. Dr. Tabatabai)
 Debora Desideri (Supervisor Prof. Dr. Ziemann)
 Bingshuo Li (Supervisors Prof. Dr. Schwarz,
 Prof. Dr. Ziemann)
 Eric McDermott (Supervisor Prof. Dr. Ziemann)
 Steven Pillen (Supervisor Prof. Dr. Ziemann)
 Srinath Rajaraman (Supervisor Prof. Dr. Dr. Tabatabai)
 Nikhil Rankan (Supervisor Prof. Dr. Naumann)
 Sonja Schötterl (Supervisor Prof. Dr. Naumann)
 Yi Wang (Supervisor Prof. Dr. Ziemann, Dr. Poli)

MASTER STUDENTS

Ricarda Farsch (Supervisor Prof. Dr. Hertrich)
 Vanessa Frische (Supervisor Prof. Dr. Hertrich)
 Miriam Grunau (Supervisor Prof. Dr. Hertrich)
 Kerstin Jendrysik (Supervisor Prof. Dr. Hertrich)
 Constanze Kemmerer (Supervisor Dr. Kowarik)
 Maya Velardi (Supervisor Prof. Dr. Hertrich)

MEDICAL DOCTORAL STUDENTS

Abdullah Alekuzei (Supervisor Prof. Dr. Naumann)
 Hannes Becker (Supervisor Prof. Dr. Dr. Tabatabai)
 Paula Bombach (Supervisors Prof. Dr. Ziemann, Dr. Kowarik)
 Elina Brendle (Supervisor Prof. Dr. Dr. Tabatabai)
 Elena Dangel (Supervisor Prof. Dr. Dr. Tabatabai)
 Hulda Ewald (Supervisor Prof. Dr. Dr. Tabatabai)
 Juliane Ebert (Supervisor Prof. Dr. Dr. Tabatabai)
 Jakob Ehlers (Supervisor Prof. Dr. Naumann)
 Ines Fachner (Supervisor Prof. Dr. Dr. Tabatabai)
 Oliver Föhst (Supervisor Prof. Dr. Dr. Tabatabai)
 Katharina Hadaschik (Supervisors Prof. Dr. Ziemann, Dr. Poli)
 Mona Hirt (Supervisor Prof. Dr. Dr. Tabatabai)
 Ilona Hoberg (Supervisor PD Dr. Bischof)
 Yeho-Irae Kim (Supervisor Prof. Dr. Ziemann)
 Julia Elisabeth Király (Supervisor Prof. Dr. Ziemann)
 Franca Koenig (Supervisor Prof. Dr. Ziemann)
 Natalya Korinetsko (Supervisor Prof. Dr. Dr. Tabatabai)
 Martin Korn (Supervisor Prof. Dr. Dr. Tabatabai)
 Krämer Hannah (Supervisor Prof. Dr. Ziemann)
 Felix Lennartz (Supervisor Prof. Dr. Dr. Tabatabai)
 Chen Liang (Supervisor Prof. Dr. Ziemann)
 Anne Lieb (Supervisor Prof. Dr. Ziemann)
 Adam Meder (Supervisor Prof. Dr. Ziemann)
 Rodrigo Navarrete (Supervisor Prof. Dr. Ziemann)
 Francesca Russo (Supervisor Prof. Dr. Ziemann)
 Martin Schippert (Supervisor Prof. Dr. Dr. Tabatabai)
 Leonie Schumacher (Supervisor Prof. Dr. Naumann)
 Charlotte Spencer (Supervisor Prof. Dr. Ziemann, Dr. Poli)
 Jakob Spogis (Supervisor Prof. Dr. Ziemann)
 Marianna Stefanou (Supervisor Prof. Dr. Ziemann)
 Miriam Thies (Supervisor Prof. Dr. Ziemann)
 Xueyu Yang (Supervisor Prof. Dr. Ziemann)

PROFESSORSHIP FOR NEUROREHABILITATION

Prof. Dr. Hermann Ackermann
 Prof. Dr. Ingo Hertrich

Clinical Studies

STROKE STUDIES

ACTION II (EudraCT: 2015-004783-11): A multicenter, double-blind, placebo-controlled, randomized, parallel-group study to evaluate the safety and efficacy of intravenous natalizumab (BG00002) on reducing infarct volume in acute ischemic stroke

Investigator: Dr. Sven Poli

ANNEXA-4: Prospective, open-label study of Andexanet alfa in patients receiving a factor XA-Inhibitor who have acute major bleeding

Investigator: Dr. Sven Poli

ATTICUS: Apixaban for treatment of embolic stroke of undetermined source

Investigator: Dr. Sven Poli

CAPIAS: The carotid plaque imaging in acute stroke (CAPIAS) study: protocol and initial baseline data

Investigator: Prof. Dr. Ulf Ziemann

CL1-44819-004: Randomized Efficacy and Safety Trial with Oral S 44819 after Recent Ischemic Cerebral Event

Investigator: Prof. Dr. Ulf Ziemann

ECASS-4 (EudraCT: 2012-003609-80): European cooperative acute stroke study-4 extending the time for thrombolysis in emergency neurological deficits, (ECASS-4: EXTEND).

Investigator: Dr. Sven Poli

EuroHYP1 (EudraCT: 2012-002944-25): European multicenter, randomised, phase III clinical trial of therapeutic hypothermia plus best medical treatment versus best medical treatment alone for acute ischaemic stroke.

Investigator: Dr. Sven Poli

LYSA: Beobachtungsstudie zur Untersuchung des inhaltlichen Verständnisses eines Aufklärungsgespräches zur Thrombolyse bei ischämischem Schlaganfall

Investigator: Dr. Sven Poli

PRAISE: Prediction of acute coronary syndrome in acute ischemic stroke

Investigator: Dr. Annerose Mengel

Precious: PREvention of Complications to Improve Outcome in elderly patients with acute Stroke. A randomised, open, phase III, clinical trial with blinded outcome assessment

Investigator: Dr. Sven Poli

Prodast: Prospective Record Of the use of Dabigatran in patients with Acute Stroke or TIA

Investigator: Dr. Sven Poli

RASUNOA-Prime: Register für Akute Schlaganfälle Unter Neuen Oralen Antikoagulantien - Prime

Investigator: Dr. Sven Poli

RESPECT CVT: A clinical trial comparing efficacy and safety of dabigatran etexilate with warfarin in patients with cerebral venous and dural sinus

Investigator: Dr. Sven Poli

RESPECT ESUS: Randomized, double-blind Evaluation in secondary Stroke Prevention comparing the Efficacy and safety of the oral Thrombin inhibitor dabigatran etexilate (110 mg or 150 mg, oral b.i.d.) versus acetylsalicylic acid (100 mg oral q.d.) in patients with Embolic Stroke of Undetermined Source

Investigator: Dr. Sven Poli

REVACEPT (EudraCT-Nr.: 2011-001006-10): An inhibitor of platelet adhesion in symptomatic carotid stenosis: A phase II, multicenter, randomized, dose-finding, double-blind and placebo controlled superiority study with parallel groups.

Investigator: Dr. Sven Poli

Risikostratifizierung von Schlaganfallpatienten durch Analyse der autonomen Funktion (AKF-Programm)

Investigators: Prof. Dr. Christine Meyer-Zürn,

Prof. Dr. Jennifer Diedler

SITSopen: An open, prospective, international, multicentre, controlled study of safety and efficacy of thrombectomy in acute occlusive stroke following initiation with intravenous thrombolysis with alteplase in accordance with accepted guidelines, compared to intravenous thrombolysis only

Investigators: Dr. Sven Poli, Prof. Dr. Ulrike Ernemann

SPOCT-NOAC 1: Specific Point-of-Care Testing of Coagulation in Patients Treated with Non-Vitamin K Antagonist Oral Anticoagulants – Part Ia/b

Investigator: Dr. Sven Poli

STREAM (ClinicalTrials.gov Identifier: NCT03228251): Simulation-based Training of Rapid Evaluation and Management for Acute Stroke Trial
Investigator: Dr. Sven Poli

NEUROIMMUNOLOGY STUDIES

AFFINITY (NCT03222973, 215MS202): Efficacy and Safety of B1B033 (Opicinumab) as an Add-on Therapy to Disease-Modifying Therapies (DMTs) in Relapsing Multiple Sclerosis (MS).
Investigator: PD Dr. Markus Krumbholz

CASTING (EudraCT-Nr. 2015-005597-38): A study of Ocrelizumab in participants with Relapsing Remitting Multiple Sclerosis (RRMS) who have had a suboptimal response to an adequate course of Disease-Modifying Treatment (DMT)
Investigator: Prof. Dr. Ulf Ziemann

CD-IA-MEDI-551-1155 – Medi-551 (EudraCT Nr. 2014-000253-36): A double-masked, placebo-controlled study with open-label period to evaluate the efficacy and safety of MEDI-551 in adult subjects with neuromyelitis optica and neuromyelitis optica spectrum disorder
Investigator: PD Dr. Markus Krumbholz

CFTY720D2406 PASSAGE (NIS – Phase 4): Prospektive, nicht-interventionelle, multinationale Studie mit Parallel-Kohorten zur Bewertung der Langzeit-Sicherheit in Patienten mit MS, deren Behandlung kürzlich auf tägliche Fingolimod-Gabe umgestellt wurde oder die mit einer anderen zugelassenen krankheitsmodifizierenden Therapie behandelt werden
Investigator: PD Dr. Markus Krumbholz

CFTY720DDE02 PANGAEA (NIS – Phase 4): Multizentrische, prospektive, nicht-interventionelle Langzeit-Registerstudie zur Beschreibung der Sicherheit und des Stellenwerts von Gilenya® (fingolimod 0.5 mg) in der Behandlung von MS Patienten
Investigator: PD Dr. Markus Krumbholz

CLADQoL (MS700568): CLADribine tablets – evaluation of Quality of Life
Investigator: Dr. Markus Kowarik

Competence Network MS – Concerted Action on Biomarker for Individualized Multiple Sclerosis Therapy in Germany (Control MS): Prospective cohort study in patients with clinically isolated syndrome (CIS) and early-stage multiple sclerosis
Investigator: Prof. Dr. Ulf Ziemann

CONFIDENCE (ML39632): Safety and effectiveness of ocrelizumab under real world conditions: a non-interventional post authorization safety study in patients diagnosed with relapsing or primary progressive multiple sclerosis
Investigator: Dr. Markus Kowarik

DIFUTURE/ProVal-MS – BMBF-supported, Prospective study to validate a multidimensional risk score (DIFUTURE-MSRS) which predicts the 24-month outcome in early Multiple Sclerosis patients)
Investigator Tübingen: Prof. Dr. Ulf Ziemann

Dimethyl fumarate: Influence of Dimethyl fumarate (DMF) on fMRI markers of cortical resting state network connectivity in relapsing remitting multiple sclerosis (RRMS)
Investigator: Prof. Dr. Ulf Ziemann

ENSEMBLE (EudraCT Nr. 2016-002937-31: This is a prospective, multicenter, open-label, single-arm, phase 3b study which evaluates effectiveness and safety of ocrelizumab in participants with early stage RRMS. The study will consist of an open-label treatment period of 192 weeks and follow-up period of at least 48 weeks.
Investigator: PD Dr. Markus Krumbholz

Ensemble plus (NCT03606460): A Study to Evaluate the Safety of Administering Ocrelizumab Per a Shorter Infusion Protocol in Participants With Primary Progressive Multiple Sclerosis (PPMS) and Relapsing Multiple Sclerosis (RMS).
Investigator: PD Dr. Markus Krumbholz

Pangaea 2.0 (CFTY720DDE26): Post-Authorization Non-interventional GermAn treatment benefit study of GilEnyA in MS).
Investigator: PD Dr. Markus Krumbholz

PROFILE RRMS (ML39348): Evaluation of specific unmet needs in current clinical practice of multiple sclerosis: characterization of different profiles of relapsing-remitting multiple sclerosis patients defined by disease activity and patient-reported outcomes.
Investigator: Dr. Markus Kowarik

Clinical Studies

NEUROIMMUNOLOGY STUDIES

REGIMS Register: Ein Immuntherapieregister zur Verbesserung der Arzneimittelsicherheit in der MS-Therapie
Investigator: PD Dr. Markus Krumbholz

RETRO (ML39631): A retrospective study investigating best supportive and medical care in clinical practice in patients with primary progressive multiple sclerosis (PPMS) in Germany.
Investigator: PD Dr. Markus Krumbholz

TRUST (GER-TYS-14-10626): Eine multizentrische, prospektive, nicht-interventionelle Studie zur Untersuchung der Auswirkung eines integrierten Patientenmanagements, inklusive Biomarkern, Magnetresonanztomographie und Expertenrat auf den Krankheitsverlauf bei Patienten mit schubförmiger Multipler Sklerose, die seit mindestens 12 Monaten mit TYSABRI behandelt wurden.
Investigator: Dr. Markus Krumbholz

WA 21493 OLE (EudraCT-Nr. 2007-006338-32): A phase II, multicenter, randomized, placebo and Avonex controlled dose finding study to evaluate the efficacy and safety of ocrelizumab in patients with relapsing-remitting multiple sclerosis.
Investigator: Prof. Dr. Ulf Ziemann

WA21092 OPERA (EudraCT-Nr. 2010-020337-99): A randomized, double-blind, double-dummy, parallel-group study to evaluate the efficacy and safety of ocrelizumab in comparison to interferon beta-1a (Rebif®) in patients with relapsing multiple sclerosis.
Investigator: Prof. Dr. Ulf Ziemann

WA25046 ORATORIO (EudraCT-Nr.2010-020338-25): A phase III, multicenter, randomized, parallel-group, double-blinded, placebo-controlled study to evaluate the efficacy and safety of ocrelizumab in adults with primary progressive multiple sclerosis.
Investigator: Prof. Dr. Ulf Ziemann

NEUROONCOLOGY STUDIES RECRUITING TRIALS (OPEN FOR ENROLLMENT)

BMS-CA209-548 (NCT02667587): Study of Temozolomide Plus Radiation Therapy With Nivolumab or Placebo, for Newly Diagnosed Patients With Glioblastoma (GBM, a Malignant Brain Cancer) (CheckMate548)
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: BMS

AbbVie M13-813 (NCT02573324): A study of ABT-414 in subjects with newly diagnosed Glioblastoma (GBM) with Epidermal Growth Factor Receptor (EGFR) amplification (Intelligence 1)
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: RTOG and AbbVie

iMRI/5-ALA: A parallel group phase II trial to investigate maximum extent of resection based on iMRI versus 5-ALA
Lead Principal Investigators: PD Constantin Roder, Prof. Dr. Marcos Tatagiba
Sponsor: University Hospital Tübingen

NOA-10 (NCT01252459): Amino-acid PET versus MRI-guided re-irradiation in patients with recurrent Glioblastoma Multiforme (GLIOMA)
Investigator in Tübingen: Prof. Dr. Daniel Zips
Sponsor: University Hospital Freiburg

NOA-16 (NCT02454634): Phase I trial of IDH1-peptide vaccine in IDH1R132H-mutated grade III-IV gliomas
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: University Hospital Heidelberg

Bayer 18239 (NCT02746081): Phase I study of BAY1436032 in Isocitrate Dehydrogenase-1 (IDH1)-mutant advanced solid tumors
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Bayer

EORTC 1320: Phase II trial in atypical and anaplastic meningioma
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: EORTC

NEUROONCOLOGY STUDIES TRIALS IN TREATMENT AND FOLLOW-UP PHASE (ENROLLMENT CLOSED)

NOA12: Phase I/II trial exploring the combination of the compound BIBF120 with re-irradiation versus re-irradiation alone in progressive glioblastoma.

Investigator in Tübingen: Prof. Dr. Daniel Zips

Sponsor: University Hospital Heidelberg

BMS CA 209-498 (NCT02617589): Phase III trial of Nivolumab Compared to Temozolomide, Given With Radiation Therapy, for Newly-diagnosed Patients With Unmethylated Glioblastoma (GBM, a Malignant Brain Cancer) (CheckMate 498)

Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: BMS

EORTC1410/AbbVie M14-483 (NCT02343406): ABT-414 Alone or ABT-414 Plus Temozolomide vs. Lomustine or Temozolomide for recurrent glioblastoma (INTELLANCE 2)

Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: EORTC

CINC280X2204 (NCT01870726): Safety and efficacy of INC280 and Buparlisib (BKM120) in patients with recurrent glioblastoma

Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: Novartis

GAPVAC-101: A phase I study using an innovative individualized peptide-vaccination-based immunotherapy in newly diagnosed glioblastoma (www.gapvac.eu)

Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: Immatix GmbH, Tübingen

CeTeG (NCT01149109): Efficacy and safety study of Lomustine/Temozolomide combination therapy versus standard therapy for glioblastoma patients

Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: University Hospital Bonn

CATNON Intergroup Trial (EORTC 26053): Phase III trial on concurrent and adjuvant temozolomide chemotherapy in non-1p/19q deleted anaplastic glioma

Investigator: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: EORTC

EORTC 26101 (NCT01290939): Bevacizumab and Lomustine for Recurrent GBM

Investigator: Prof. Dr. Dr. Ghazaleh Tabatabai

Sponsor: EORTC

Third-Party Funding

ONGOING GRANTS

The sensorimotor μ -rhythm as cholinergically controlled pulsed inhibition

Project leader: Dr. Til Ole Bergmann

Funding institution: German Research Foundation (DFG)

Perception of speech at normal and ultra-fast syllable rates – functional neuroplasticity in blind subjects and its relation to the normal speech processing network (DFG HE 1573/6-2)

Project leader: Prof. Dr. Ingo Hertrich

Funding institution: German Research Foundation (DFG)

Immunoglobulin (Ig) repertoire analysis in multiple sclerosis patients treated with teriflunomid (Aubagio) - A combined Ig transcriptome and proteome approach -

Project leader: Dr. Markus Kowarik

Funding Institution: Genzyme

Cardiac Autonomic Function for Risk Prediction in Cryptogenic Stroke (CRYPTIC-Study)

Project leaders: Prof. Dr. Christine Meyer-Zürn, Dr. Sven Poli,

Prof. Dr. Jennifer Diedler

Funding institution: Medtronic

Funktionelle und therapeutische Bedeutung einer Behandlung des Glioblastoms mit Mistellektinen

Project leader: Prof. Dr. Ulrike Naumann

Funding institution: Software AG

Assessment of YB-1 Dependent Oncolytic Adenovirus-Based Glioma-Virotherapy on Cellular Immune Responses (NA 770/4-1)

Project leader: Prof. Dr. Ulrike Naumann

Funding institution: German Research Foundation (DFG)

Wie beeinflussen Gliomzellen den Differenzierungsstatus von Perizyten tumor-assoziiertes Gefäße und damit angiogene Prozesse? Spielen EMT-Faktoren dabei eine Rolle?

Project leader: Prof. Dr. Ulrike Naumann

Penumbra Rescue by normobaric O₂ Administration in patients with ischemic Stroke and target mismatch profile:

A phase II Proof-of-Concept Trial

Project leader: Dr. Sven Poli

Funding institution: European Commission

Interdisciplinary translational Neuro-Oncology from molecular alterations to patient stratification and therapy

Project leader: Prof. Dr. Dr. Ghazaleh Tabatabai

Funding institution: Medical Faculty Tübingen

Individualizing the treatment of CNS Metastases

Project leader: Prof. Dr. Dr. Ghazaleh Tabatabai

Funding institution: Medical Faculty Tübingen

EKFS-Forschungskolleg „Therapieresistenz solider Tumore“

Project leader: Prof. Dr. Dr. Ghazaleh Tabatabai

Funding institution: Else Kröner Fresenius-Stiftung

Strengthening the SMA-M1 connection of human motor cortex by a novel non-invasive brain stimulation protocol to enhance motor performance and learning

(DFG ZI 542/7-1)

Project leader: Prof. Dr. Ulf Ziemann

Funding institution: German Research Foundation (DFG)

Influence of Dimethylfumarate (DMF) on fMRI markers of cortical resting state network connectivity in relapsing remitting multiple sclerosis (RRMS)

Project leader: Prof. Dr. Ulf Ziemann

Funding institution: Biogen Idec GmbH

Implantable, bidirectional brain-computer-interface for restoration of motor functions (MOTOR-BIC)

Project leaders Tübingen: Prof. Dr. Niels Birbaumer,

Prof. Dr. Ulf Ziemann

Funding institution: Federal Ministry of Education and Research (BMBF)

Apixaban for treatment of embolic stroke of undetermined source (ATTICUS randomized trial)

Project leaders: Prof. Dr. Tobias Geisler, Prof. Dr. Ulf Ziemann

Funding institution: Bristol-Myers Squibbs

An exploratory study assessing TMS plasticity deficits in patients with AD and aMCI in comparison to healthy controls

Project leaders: Prof. Dr. Ulf Ziemann, Prof. Dr. Daniela Berg, Prof. Dr. Christoph Laske

Funding institution: Janssen Pharmaceuticals NV

Transcranial magnetic stimulation; Electroencephalography; TMS-EEG; human cortex; excitability; neuropharmacology; glutamatergic system; GABAergic system; voltage-gated ion channels; anticonvulsants (ZI 542/9-1)

Project leader: Prof. Ulf Ziemann

Funding institution: German Research Foundation (DFG)

DIFUTURE/ProVal-MS – Prospective study to validate a multi-dimensional risk score (DIFUTURE-MSRS) which predicts the 24-month outcome in early Multiple Sclerosis patients)

Project leader Tübingen: Prof. Dr. Ulf Ziemann

Funding institution: Federal Ministry of Education and Research (BMBF)

EXIST Forschungstransfer: NEUROSYNC

Project leader: Dr. Christoph Zrenner

Funding institution: Federal Ministry of Education and Research (BMBF)

Induction of brain plasticity with closed-loop EEG-triggered transcranial magnetic stimulation

Project leader: Dr. Christoph Zrenner

Funding institution: Medical Faculty University Tübingen, Clinician Scientist Program

Induction of brain plasticity with closed-loop EEG-triggered transcranial magnetic stimulation

Project leaders: Dr. Christoph Zrenner

Funding institution: Medical Faculty University Tübingen, fortune Program

NEW GRANTS

Assessment of YB-1-dependent oncolytic adenovirus-based explorative study of Emerging Blood Biomarkers in Progressive Multiple Sclerosis (EmBioProMS)

Project leader: Dr. Ahmed Abdelhak

Funding Institution: Deutsche Multiple Sklerose Gesellschaft (DMSG)

The role of B cells in patients with gliomas: B-cell-associated immuno surveillance in the CNS?

Project leader: Dr. Markus Kowarik

Funding Institution: Medical Faculty University Tübingen, fortune Program

Immunoglobulin (Ig) repertoire analysis in multiple sclerosis patients treated with cladribine (Mavenclad)

- A combined Ig transcriptome and proteome approach -

Project leader: Dr. Markus Kowarik

Funding Institution: Merck GmbH

Beeinflussung des klinischen Verlaufes von neurologischen Intensivpatienten durch autoregulationsbasiertes zerebrales Perfusionsmanagement

Project leader: Dr. Annerose Mengel

Funding Institution: Medical Faculty University Tübingen, TüFF Program

The role of MTUS/ATIP1 in glioblastoma progression and invasion

Project leader: Prof. Dr. Ulrike Naumann

Funding institution: DAAD

Automatic Prediction of Edema after Stroke (APICES)

Project leader: Dr. Sven Poli

Funding institution: Innovationsausschuss beim Gemeinsamen Bundesausschuss (GBA)

Specific Point-of-Care Testing of Coagulation In Patients Treated with Edoxaban (SPOCT-Edoxaban)

Project leader: Dr. Sven Poli

Funding institution: Daiichi Sankyo

Immunoglobuline repertoire analysis in multiple sclerosis

Project leader: Dr. Christoph Ruschil

Funding Institution: Medical Faculty University Tübingen, PATE Program

Third-Party Funding

NEW GRANTS

Multipeptide vaccination with a new immunomodulatory agent XS15 in newly diagnosed glioblastoma: a first in man phase 1 trial

Project leaders: Prof. Dr. Dr. Ghazaleh Tabatabai,

Prof. Dr. Hans-Georg Rammensee

Funding institution: Medical Faculty

Combined inhibition of PD1 and CTLA4 in CNS metastases from malignant melanoma: a multicenter phase 2 investigator-initiated clinical trial

Project leaders: Prof. Dr. Claus Garbe,

Prof. Dr. Dr. Ghazaleh Tabatabai

Funding institution: Bristol-Myers Squibbs

Connecting to the Networks of the Human Brain (ConnectToBrain)

Project leaders: Prof. Dr. Ulf Ziemann, Prof. Dr. Risto Ilmoniemi

(Aalto University, Finland), Prof. Dr. Gian-Luca Romani

(Universita degli studi Gabriele d'Annunzio di Chieti-Pescara, Italy)

Funding Institution: European Research Council (ERC)

Closed-Loop Softwaresystem zur Neurorehabilitation nach Schlaganfall durch EEG/EMG-Hirnzustandsgesteuertes „Virtual Reality“ Therapieparadigma (REHALITY)

Project leaders: Prof. Dr. Ulf Ziemann, Dr. Christoph Zrenner

Funding Institution: Federal Ministry of Education and Research (BMBF)

Therapeutic Effectiveness of Brain-Oscillation Synchronized TMS in Depression (BOSSFRONT-2)

Project leader: Dr. Brigitte Zrenner

Funding Institution: Medical Faculty University Tübingen, Clinical Trial Program

Awards

Prof. Dr. Dr. Ghazaleh Tabatabai

Listing "Top physician 2018" (Focus, Hirntumore)

Prof. Dr. Ulf Ziemann

Listing "Top Physicians 2018" (Guter Rat)

Medical Theses

(Completed in 2018)

Hanna Faber

Cooperative noninvasive brain stimulation to induce long-term motor plasticity

Supervisor: Prof. Dr. Ulf Ziemann

Philipp Nakov

The role of the C-C motif chemokine ligand 7, C-C motif chemokine ligand 11 and interleukin-9 in T helper type 9 cell mediated neuronal damage

Supervisor: PD Dr. Felix Bischof

PhD Theses

(Completed in 2018)

Ghazaleh Darmani

Pharmaco-TMS-EEG as a new tool to characterize human cortical excitability and connectivity

Supervisor: Prof. Dr. Ulf Ziemann

Srinath Rajaraman

Oncolytic measles virus in combination with conventional therapies in experimental glioma: characterizing the induction of treatment-induced molecular and immunological signatures for personalized therapeutic strategies

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

Master Theses

(Completed in 2018)

Ricarda Farsch

Das Phänomen der „semantischen Sättigung“ und seine Ausprägungen bei Normalpersonen und schizophrenen Personen

Supervisor: Prof. Dr. Ingo Hertrich

Vanessa Frische

Anglizismen in der deutschen Werbesprache – ein absolutes „No-go“? Entwicklung, Wirkung, Verständnis und Akzeptanz

Supervisor: Prof. Dr. Ingo Hertrich

Miriam Grunau

Zweitspracherwerb per App: Vokabeln lernen mit visueller Animation und motorischer Interaktion

Supervisor: Prof. Dr. Ingo Hertrich

Kerstin Jendrysik

The Role of the Right Hemisphere in Idiom Processing

Supervisor: Prof. Dr. Ingo Hertrich

Constanze Kemmerer

Flow Cytometric Analysis of B cell Subsets in Multiple Sclerosis Patients under Disease Modifying Treatments

Supervisor: Dr. Markus Kowarik

Stephanie Klein

Characterizing the role of CAMTA1 in gliomagenesis

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

Bachelor Theses

(Completed in 2018)

Daniel Netz

The Evolution Of Grammatical Gender - From Nostratic To Indo-European

Supervisor: Prof. Dr. Ingo Hertrich

Rainer Roth

Arbitrariness, Systematicity and Iconicity and their impact on Language Learning and Evolution

Supervisor: Prof. Dr. Ingo Hertrich

Tabea Walz

Primary Progressive Aphasia - Symptoms and Treatments

Supervisor: Prof. Dr. Ingo Hertrich

Conferences & Workshops

Winter School NOA

University Hospital Tübingen on behalf of the NOA/DKG, Stuttgart, 6 December 2018

Scientific coordinator: Prof. Dr. Dr. Ghazaleh Tabatabai

Guest Researchers

Dr. Anastasia Shulga, BioMag Laboratory, HUS Medical Imaging Center, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

(Funded by the National Academy of Science, Finland)

Host: Prof. Dr. Ulf Ziemann

Department of Neurology and Epileptology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Holger Lerche

GROUP LEADERS/ATTENDING PHYSICIANS

Prof. Dr. Niels Focke
(partially affiliated)
Prof. Dr. Tobias Freilinger
(partially affiliated)
Prof. Dr. Alexander Grimm
(50%; other 50% Department of Neurology with
Neurovascular Medicine and Neuro-Oncology)
Prof. Dr. Yvonne Weber

SCIENTISTS/RESIDENTS

Dr. Eva Auffenberg (until 08/2018)
Murtadha Alshabaan
Felicitas Becker
Dr. Christian Boßelmann
Dr. Katharina Friebe
Dr. Samira Hamzehian
Dr. Ulrike Hedrich
Dr. Yiwen Li Hegner
Julian Hofmeister (10/2018)
Josua Kegele
Dr. Silke Klamer
Kevin Klett (until 10/2018)
Dr. Henner Koch
Dr. Stephan Lauxmann
Dr. Christina Lipski (until 06/2018)
Dr. Yuanyuan Liu
Tijana Ljubikj
Florian Lutz until 10/2018)
Dr. Pascal Martin
Dr. Justus Marquetand
Dr. Joohyun Park
Filip Rosa
Dr. Julian Schubert until 02/2018)
Dr. Victoria Schubert
Dr. Niklas Schwarz
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INTERNSHIPS

Marei Brose
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Jana Kuhn
Supervisor: Johanna Krüger

Eva Kunzelmann
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Dr. Stephan Lauxmann*

Sarah Merz
Supervisor: Mahmoud Koko

Lorena Savini
Supervisor: Dr. Stephan Lauxmann

Anna Schwämmle
Supervisor: Johanna Krüger

Kornelijus Stanaitis
*Supervisors: Dr. Ulrike Hedrich,
Dr. Henner Koch*

Dingwen Su
Supervisor: Betül Uysal

Clinical Studies

ZEDEBAC: A multicenter, open-label and non-interventional study to investigate Eslicarbazepinacetat in focal epilepsies
Investigator: Prof. Dr. Yvonne Weber

VALUE / SP0982: A double-blind, randomized, placebo-controlled, parallel-group, multicenter study to evaluate the efficacy and safety of lacosamide as adjuvative therapy for uncontrolled primary generalized tonic-clonic seizures in subjects with IGE
Investigator: Prof. Dr. Yvonne Weber

VIBES / EP0045: A noninterventional study of Vimpat (lacosamide) added to one baseline antiepileptic drug therapy in patients with brain tumor-related epilepsy
Investigator: Prof. Dr. Yvonne Weber

A multicenter, single-arm, open-label, post-marketing safety study to evaluate the risk of seizure among subjects with metastatic castration-resistant prostate cancer treated with enzalutamide who are at potential increased risk of seizure.
Investigator: Prof. Dr. Yvonne Weber

PredCh – Efficacy and safety of oral prednisone as add-on therapy in prophylactic treatment of episodic cluster headache: a randomized, placebo controlled parallel study
Investigator: Prof. Dr. Tobias Freilinger

REGAIN / ISQ-MC-CGAI – a phase 3, randomized, double-blind, placebo-controlled study of LY2951742 in patients with chronic migraine
Investigator: Prof. Dr. Tobias Freilinger

EVOLVE-2 / ISQ-MC-CGAH – a phase 3, randomized, double-blind, placebo-controlled study of LY2951742 in patients with episodic migraine
Investigator: Prof. Dr. Tobias Freilinger

LIBERTY / CAMG334A2301 – a 12-week double-blind, randomized, multicenter study comparing the efficacy and safety of once monthly subcutaneous 140 mg AMG 334 against placebo in adult episodic migraine patients who have failed 2-4 prophylactic treatments.
Investigator: Prof. Dr. Tobias Freilinger

HeMiLa – Prophylactic treatment of hemiplegic migraine with lamotrigine
Investigator: Prof. Dr. Tobias Freilinger

UX007G-CL301 – a phase 3, randomized, double-blind, placebo-controlled, crossover study to assess the efficacy and safety of UX007 in the treatment of movement disorders associated with Glucose Transporter Type 1 Deficiency Syndrome (Glut1 DS).
Investigator: Prof. Dr. Yvonne Weber

EP0104 / Non-interventional Study – effectiveness of initiating brivaracetam add-on therapy in patients with epilepsy requiring a change in antiepileptic drug regimen: a retrospective data collection
Investigator: Prof. Dr. Holger Lerche

VOTE / EP0076 – Patient preferences in epilepsy monotherapy – a non-interventional study of lacosamide and other antiepileptic drugs in the treatment of partial-onset seizures, including a discrete choice experiment.
Investigator: Prof. Dr. Holger Lerche

ARISE / EP0091 – A randomized, double-blind, placebo-controlled, dose finding study to evaluate the efficacy and safety of padsevonil as adjunctive treatment of focal-onset seizures in adult subjects with drug-resistant epilepsy.
Investigator: Prof. Dr. Yvonne Weber

EE / AKF357-0-0 – Pathophysiologie basierte Therapie von früh beginnenden epileptischen Enzephalopathien
Investigators: Prof. Dr. Yvonne Weber, Dr. Markus Wolff

TUNAP – Studie zur Evaluierung der Rolle des Nervenultraschalls bei Nervenraumata
Investigators: Prof. Dr. Alexander Grimm, Dr. Nathalie Winter, Dr. Martin Schuhmann (Neurochirurgie), Prof. Dr. Adrien Daigeler (BGU Tübingen)

UPSS – Pattern Analysis bei Neuropathien
Investigators: Prof. Dr. Alexander Grimm, Dr. Nathalie Winter

MUSS – Muskelsummscore zur Evaluierung der Muskelfibrose bei Neuropathien
Investigators: Prof. Dr. Alexander Grimm, Dr. Nathalie Winter

Third-Party Funding

ONGOING GRANTS

Pathophysiology of familial hemiplegic migraine: Examination of a newly developed transgenic SCNC1A mouse model

Project leader: Prof. Dr. Tobias Freilinger

Funding institution: German Research Foundation (DFG) (FR 3324/2-1)

Pathophysiology of non-classical epileptic encephalopathies (EE)

Project leader: Prof. Dr. Yvonne Weber

Funding institution: German Research Foundation (DFG) (WE 4896/3-1)

Pathophysiology-triggered therapy of epileptic encephalopathies

Project leader: Prof. Dr. Yvonne Weber

Funding institution: AKF (Angewandte Klinische Forschung), University of Tübingen

Prophylactic treatment of hemiplegic migraine with lamotrigine – a pilot study

Project leader: Prof. Dr. Tobias Freilinger

Funding institutions: Centre for Rare Diseases, Tübingen; AKF (Angewandte Klinische Forschung), University of Tübingen

Exploring the function of the central control of breathing in mice with sodium-channel mutations causing epilepsy, implications for sudden unexpected death in patients with epilepsy (SUDEP)

[Die zentrale Kontrolle der Atmung in Mäusen mit Natriumkanalmutationen, die Epilepsien verursachen und die Implikation für den plötzlichen unerwarteten Tod bei Epilepsie]

Project leader: Dr. Henner Koch

Funding institution: German Research Foundation (DFG) (KO 4877/2-1)

Structural Highfield-MRI-Imaging in Epilepsy

Project participant: Dr. Pascal Martin

Funding institution: University of Tübingen (Pate)

Generation of a human disease model for epilepsy caused by a sodium channel mutation

Project participant: Dr. Niklas Schwarz

Funding institution: University of Tübingen (Pate)

DAAD PhD Stipendium

Project participant: Mahmoud Koko

Funding institution: DAAD

Network-Imaging in genetic epilepsy

Project leader: Prof. Dr. Niels Focke

Funding Institution: German Research Foundation (DFG) (FO 750/5-1)

Non-invasive vagal nerve stimulation (nVNS) for acute treatment of prolonged aura in hemiplegic migraine – an open-label, single-arm, multiple attack pilot trial

Project leader: Prof. Dr. Tobias Freilinger

Funding institution: Centre for Rare Diseases

Trimodale Bildgebung humaner Hirnnetzwerke mittels simultaner PET/MR/EEG

Project leader: Prof. Dr. Niels Focke (together with Prof. Dr. Christian la Fougere und Prof. Dr. Bernd Pichler)

Funding Institution: German Research Foundation (DFG) (FO 750/7-1)

Entwicklung von Computermodellen zur Vorhersage der Auswirkungen von Ionenkanalmutationen auf neuronales Verhalten

Project participant: Dr. Stephan Lauxmann

Funding institution: University of Tübingen (Pate)

Effect of Eslicarbazepine on genetic gain-of-function mutations in voltage-gated Na⁺ channels causing epilepsies in young children

Project leader: Prof. Dr. Holger Lerche, Dr. Stephan Lauxmann

Funding Institution: Bial

Neurological Clinical Problem Solving (Neuro-CLiPS) Tübingen

Project leader: Prof. Dr. Tobias Freilinger

Funding institution: University of Tuebingen, PROFIL programme

Guest Physician Stipend

Project participant: Murtadha Alshabaan

Funding institution: Saudi-Arabia

Third-Party Funding

ONGOING GRANTS

DFG-Research Unit FOR2715

'Epileptogenesis of genetic epilepsies'

Speaker: Prof. Dr. Holger Lerche

Funding institution: German Research Foundation (DFG)

Additional Funding by the FNR (Luxembourg):
including the following five grants:

P1: Genetic mechanisms of epileptic encephalopathies

Project leader: Prof. Dr. Yvonne Weber

(with Prof. Dr. Ingo Helbig from Kiel University)

P2: Rare genetic factors in epileptogenesis

Project leader: Prof. Dr. Holger Lerche

(with Prof. Dr. Michael Nothnagel from Cologne University
and Dr. Roland Krause from Luxembourg University)

P5: Brain region-specific epileptogenesis in a conditional mouse model

Project leaders: Prof. Dr. Holger Lerche, Dr. Henner Koch

P6: Mechanisms of epileptogenesis in KCNA2-/SCN2A-mediated epilepsies

Project leader: Dr. Ulrike Hedrich

(with Prof. Dr. Olga Garaschuk from Tübingen University)

Z3: Central Management

Project leader: Prof. Dr. Holger Lerche

NEW GRANTS

Spreading of pathological activity in critical brainstem centers and activation measured in vivo in a Dravet mouse Model

Project leader: Dr. Henner Koch

Funding institution: Finding a Cure for Epilepsy and Seizures (FACES)

Personalisierte Therapieoptionen für Patienten mit KCNA2-assoziierten epileptischen Enzephalopathien

Project leader: Dr. Ulrike Hedrich

Funding Institution: Eva Luise und Horst Köhler Stiftung

Entwicklung eines Anfallsdetektors

Project leader: Prof. Dr. Yvonne Weber

Funding institutions: Federal Ministry of Education and Research/Life Science Incubator Bonn (BMBF/LSI Bonn)

SNAREopathies - Mechanismen neuropsychiatrischer, genetischer Erkrankungen des SNARE-Komplexes:

Hin zu therapeutischen Maßnahmen

TP Tübingen: Funktionelle Analyse anhand von transgenen Mausmodellen, die Träger des krankheitsverursachenden Gens sind

Project leader: Prof. Dr. Holger Lerche

Funding Institution: Federal Ministry of Education and Research (BMBF)

Doktorandenstipendium – Projekt: computer-basierte Modellrechnungen zur Änderung des Verhaltens von Nervenzellen bei genetischen Epilepsien

Project leader: Prof. Dr. Holger Lerche

Funding Institution: Stiftung no epilep

TUNAP-Projekt bei Nervenverletzung

Project leader: Prof. Dr. Alexander Grimm,

Dr. Nathalie Winter

Funding Institution: Deutsche Gesellschaft für Ultraschall in der Medizin (DEGUM)

Awards

Prof. Dr. Alexander Grimm

1. Wissenschaftspreis der DEGUM

Dr. Niklas Schwarz

Forschungspreis des Landes Baden-Württemberg -
Ersatz- und Ergänzungsmethoden zum Tierversuch

MD Theses

(Completed in 2018)

Haosi Huang

**Functional studies of mutations in SCN2A gene associated
with early-onset epilepsy**

Supervisor: Prof. Dr. Holger Lerche

Master Theses

(Completed in 2018)

Märt Rannap

**Functional characterisation of mutations associated with
epilepsy in the human voltage-gated sodium channel
NaV1.6**

Supervisor: Dr. Yuanyuan Liu

Kirsten Torge

**Effects of 4-Aminopyridine on wildtype and mutant KV1.2
channels**

Supervisor: Dr. Ulrike Hedrich

Conferences & Workshops

Patiententag Epilepsie

Tübingen, 12 July 2018

*Scientific coordinators: Dr. Michael Alber,
Dr. Stephan Lauxmann*

Tübinger Therapiefortbildung Neurologie

Tübingen, 14 July 2018

*Scientific coordinators: Prof. Dr. Holger Lerche,
Dr. Stefan Wolking*

Young Neurologists Summer School 2018

Tübingen, 30 July - 3 August 2018

*Scientific coordinators: Prof. Dr. Holger Lerche,
Dr. Justus Marquetand, Dr. Christian Boßelmann*

Epilepsy Genetics

Symposium at the Annual Meeting of the
German Society of Epilepsy (DGfE)
Fürth, 13-16 June 2018

*Scientific coordinators: Prof. Dr. Yvonne Weber,
PD Sarah von Spiczak (University of Kiel)*

Seizure Detection Systems

Symposium at the Annual Meeting of the
German Society for Neurology (DGN)
Berlin, 30 October - 3 November 2018

Scientific coordinator: Prof. Dr. Yvonne Weber

Kickoff Meeting der Forschergruppe FOR2715

Tübingen, 7 December 2018

*Scientific coordinators: Prof. Dr. Holger Lerche,
Dr. Henner Koch, Dr. Ulrike Hedrich*

Department of Neuro- degenerative Diseases



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Thomas Gasser

DEPUTY HEAD OF THE DEPARTMENT

Prof. Dr. Ludger Schöls

GROUP LEADERS/ATTENDING PHYSICIANS

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Dr. Kathrin Brockmann
Jun.-Prof. Dr. Dr. Michela Deleidi (jointly with DZNE)
Dr. Julia Fitzgerald
PD Dr. Christian Johannes Gloeckner (jointly with DZNE)
Prof. Dr. Philipp Kahle
Prof. Dr. Rejko Krüger
PD Dr. Inga Liepelt-Scarfone
PD Dr. Rebecca Schüle
Dr. Javier Simón-Sánchez (jointly with DZNE; until 06/2018)
Prof. Dr. Matthis Synofzik
PD Dr. Daniel Weiß

SCIENTISTS/RESIDENTS/PHD STUDENTS

Burcu Atasu (until 08/2018)
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Dominik Blum
Idil Cebi
Silvia De Cicco
Mohamad Dehestani
Morad Elshehabi
Dr. Monika Fruhmann-Berger (until 03/2018)
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Kim Krieg
Leonie Kurz
Max Mattheuer
Rusheka Maxwell
Madeline Nagel
Lara Sophie Rieder
Srinethe Saravanan
David Skrabak
Fabienne Waga

TRAINEES

Sara Grüner

BUNDESFREIWILLIGEN-DIENSTLEISTERINNEN

Jonathan Göth (until 08/2018)
Meike Keller
Pascal Marx (until 08/2018)
Marie Wiesemann

Clinical Studies

Ergotherapie bei Essentiellem Tremor (ET):

a monocenter single blind study to evaluate the symptomatic effect of ergotherapy on ET

Investigators: Dr. Isabel Wurster, Prof. Dr. Daniela Berg

Training PD: a monocenter center study assessing the clinical and neuroimaging effect of various trainings (physiotherapy, brain games, exergaming) in PD.

Investigators: Dr. Eva Schäffer, Dr. Benjamin Roeben, Prof. Dr. Daniela Berg

PPMI – The Parkinson’s Progression Markers Initiative

(please see: <http://www.ppmi-info.org/>)

Multicenter longitudinal observational study in PD

Investigators: Dr. Kathrin Brockmann

P-PPMI (please see also: Fox-Trial-Finder): **Prodromal Parkinson’s Progression Markers Initiative:** Multicenter longitudinal observational study in individuals at risk for PD

Investigators: Dr. Kathrin Brockmann

PPMI Genetic Cohort: Multicenter longitudinal observational study in genetic PD

Investigators: Dr. Kathrin Brockmann

Roche Pasadena Studie BP39529: a randomized, double-blind, placebo-controlled, 52-week phase II study to evaluate the efficacy of intravenous RO7046015 (PRX002) in participants with early Parkinson’s Disease with a 52-week blinded extension Pasadena

Investigators: Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Influence of Inflammatory Profiles on PD Phenotype and Progression

Investigator: Dr. Kathrin Brockmann

Kognitive Stimulation bei Patienten mit Parkinson-Demenz: Wirksamkeit, Prädiktoren des Trainingserfolgs und gesundheitsökonomische Evaluation

Investigator: PD Dr. Inga Liepelt-Scarfone

Cognitive-driven ADL impairment as a predictor for Parkinson’s disease Dementia (PDD)

Investigator: PD Dr. Inga Liepelt-Scarfone

ABC-PD: a monocenter longitudinal study on the predictive value of CSF abeta-pathology for PD dementia.

Investigators: PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Daniela Berg, Prof. Dr. Walter Maetzler

DEMPARK / LANDSCAPE: Multicenter longitudinal observational study on dementia in Parkinson’s disease.

Investigators: PD Dr. Inga Liepelt-Scarfone, Sara Becker, Prof. Dr. Daniela Berg

TREND-Studie (Tübinger evaluation of Risk factors for Early detection of NeuroDegeneration): Monocenter longitudinal observational study on individuals at high risk for PD to determine the value of risk, prodromal and progression markers in the prodromal phase.

Please see also: <http://www.trend-studie.de/english/>

Investigators: Prof. Dr. Daniela Berg, Prof. Dr. Walter Mätzler (UKSH, Campus Kiel, Neurology), Dr. Kathrin Brockmann, (UKT, Neurology), Prof. Dr. Andreas Fallgatter, Prof. Dr. Gerhard Eschweiler, Prof. Dr. Florian Metzger (UKT, Psychiatry)

iMed-Studies: within this German-wide project, Tübingen is involved in several studies to understand the relation of Parkinson’s disease and metabolic profiles including diabetes.

Investigators: Dr. Kathrin Brockmann, Prof. Dr. Thomas Gasser

MIGAP: (Markers in GBA-associated PD) multicenter study of the DZNE to detect biomarkers and protective factors in GBA-associated PD.

Investigators: Dr. Kathrin Brockmann, Prof. Dr. Thomas Gasser

PDdementia: A BMBF-funded study to assess Biomarkers for dementia in PD using Cell Models and human CSF

Investigators: Dr. Kathrin Brockmann, Prof. Dr. Thomas Gasser

A94-52120-165: A national, multicenter, non-interventional, prospective, longitudinal study of treatment with botulinum toxin A injections in previously treated or untreated patients with cervical dystonia (Dysport®).

Investigators: Dr. Tobias Wächter, Dr. Ebba Lohmann, Prof. Dr. Thomas Gasser

A 94-52120-174: An international, multicenter, non-interventional, prospective, longitudinal study to investigate the effectiveness of botulinum toxin A (Dysport®) injections in patients suffering from post-stroke arm spasticity with respect to early, medium or late start of treatment.

Investigators: Dr. Katerina Freitag, Prof. Dr. Thomas Gasser

Clinical Studies

AGN191622: BOTOX prophylaxis in chronic migraine.

An international, multicentre, non-interventional, prospective study of treatment with botulinum toxin A injections in patients with chronic migraine

Investigators: Dr. Katerina Freitag, Prof. Dr. Thomas Gasser

ETAM: Validierungsstudie des Erlangen Test of Activities of Daily Living in Persons with Mild Dementia or Mild Cognitive Impairment (ETAM) bei Parkinson Patienten mit leichten kognitiven Einschränkungen

Investigators: PD Dr. Inga Liepelt-Scarfone, Patricia Sulzer

Klinische Charakterisierung der Parkinson Demenz:

detaillierte Beschreibung und Identifikation von PDD Subgruppen aufgrund des kognitiven, genetischen, motorischen und nicht-motorischen klinischen Profils und deren Progression der Erkrankung über einen Verlauf von zwei Jahren

Investigators: PD Dr. Inga Liepelt-Scarfone, Sara Becker, Patricia Sulzer

Study B7601011: "A 15-week, phase 2, double blind, randomized, placebo controlled, flexible dose study to investigate the efficacy, safety and tolerability of PF-06649751 in subjects with early stage Parkinson's disease"

Investigators: Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

ACT14820-MOVES-PD: Multizentrische, randomisierte, doppelblinde, placebokontrollierte Studie zur Beurteilung der Wirksamkeit, Sicherheit, Pharmakokinetik und Pharmakodynamik von GZ/SAR402671 bei Patienten mit Morbus Parkinson im Frühstadium, die eine GBA-Mutation oder eine vorspezifizierte Variante tragen

Investigators: Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

TrainParC: Cognitive training for treatment of cognitive dysfunctions and prevention of cognitive decline in patients with Parkinson's disease and Mild Cognitive Impairment (PD-MCI): behavioral effects, prediction of response and underlying mechanisms

Investigator: PD Dr. Inga Liepelt-Scarfone

EPI589-15-002: A phase 2A Safety and Biomarker Study of EPI-589 in Mitochondrial Subtype and Idiopathic Parkinson's Disease Subjects

Investigators: Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Y-79-52120-166: An international observational prospective study on long-term response to botulinum toxin type a (BoNT-A) injections in subjects suffering from idiopathic cervical dystonia (CD) – pharmaco-economic impact (INTEREST IN CD2)

Investigators: Dr. Katerina Freitag, Prof. Dr. Thomas Gasser

Multicenter evaluation of the effect of botulinum toxin therapy on quality of life:

A multicenter, non-interventional, prospective study to investigate the effect of botulinum toxin therapy on quality of life in previously not treated patients with various neurological diseases

Investigators: Dr. Katerina Freitag, Prof. Dr. Thomas Gasser

EarlyStim – Post study follow up: The effect of deep brain stimulation of the subthalamic nucleus (STN-DBS) on quality of life in comparison to best medical treatment in patients with complicated Parkinson's disease and preserved psychosocial competence.

Investigators: Prof. Dr. Rejko Krüger, PD Dr. Daniel Weiß

Health-related quality of life in LCIG-treated and LCIG-amenable patients with continued oral dopaminergic therapy:

Non-interventional, multicentre observational trial for levodopa-carbidopa gel (LCIG) in Germany – BALANCE

Investigator: PD Dr. Daniel Weiß

Subthalamic steering for therapy optimization in Parkinson's disease (SANTOP)

Investigator: PD Dr. Daniel Weiß

Lateral steering of nigral stimulation for freezing of gait in Parkinson's disease (NIGRASTEER)

Investigator: PD Dr. Daniel Weiß

Restitution of oral transport, deglutition, and aspiration with nigral stimulation in Parkinson's disease?

Investigator: PD Dr. Daniel Weiß

Combined stimulation of STN and SNr for Resistant Freezing of Gait in Parkinson's disease

Investigator: PD Dr. Daniel Weiß, Prof. Dr. Alireza Gharabaghi, Prof. Dr. Rejko Krüger, Dr. Georgios Naros

Statin Treatment of Oxysterol Pathology in SPG5 (STOP SPG5)

Investigators: PD Dr. Rebecca Schüle, Dr. Tim Rattay, Prof. Dr. Ludger Schöls

Physiotherapie bei Hereditärer Spastischer Spinalparalyse (HSP)

Investigators: PD Dr. Rebecca Schüle, Dr. Tim Rattay, Prof. Dr. Ludger Schöls

Natural history in Hereditary Spastic Paraplegia (HSP registry)

Investigators: PD Dr. Rebecca Schüle, Dr. Sarah Wiethoff, Prof. Dr. Ludger Schöls

Phenotype, Genotype and Biomarkers in ALS and Related Disorders (Clinical Research in ALS and Related Disorders for Therapeutic Development Consortium / CReATe)

Investigators: PD Dr. Rebecca Schüle, Prof. Dr. Matthias Synofzik, Dr. Dr. Sarah Wiethoff, Dr. Carlo Wilke

European Friedreich's Ataxia Consortium for Translational Studies (EFACTS)

Investigators: Prof. Dr. Ludger Schöls, Dr. Jennifer Just, Dr. Stefanie Hayer, Prof. Dr. Jörg B. Schulz (Aachen)

ESMI: European Spinocerebellar Ataxia Type 3 / Machado-Joseph Disease Initiative

Investigators: Prof. Dr. Ludger Schöls, Prof. Dr. Matthias Synofzik, Dr. Winfried Ilg

Sporadic ataxia with adult onset: Natural history study (SPORTAX)

Investigators: Prof. Dr. Ludger Schöls, Prof. Dr. Matthias Synofzik, Prof. Dr. Thomas Klockgether (Bonn)

Early onset ataxia: Genetic basis and natural history (EOA)

Investigators: Prof. Dr. Matthias Synofzik, Prof. Dr. Ludger Schöls

Solving the unsolved Rare Diseases (Solve RD)

Investigators: PD Dr. Rebecca Schüle, Prof. Dr. Matthias Synofzik, Prof. Dr. Ludger Schöls

MOVE' n UP: Video game-based coordinative training for children with advanced degenerative ataxia

Investigators: Prof. Dr. Matthias Synofzik, Dr. Winfried Ilg

Detecting PreAtaxia: A mixed challenge strategy to identify ataxia at its preclinical stage

Investigators: Prof. Dr. Matthias Synofzik, Dr. Winfried Ilg

A randomised delayed entry trial of intensive home-based speech therapy in spinocerebellar ataxias

Investigators: Prof. Dr. Matthias Synofzik, Dr. Adam Vogel (University of Melbourne)

Slowing down disease progression in premanifest SCA: a piloting interventional exergame trial (SlowSCA)

Investigators: Prof. Dr. Matthias Synofzik, Dr. Winfried Ilg

Third-Party Funding

ONGOING GRANTS

Landscape

*Project leader: PD Dr. Inga Liepelt-Scarfone,
Prof. Dr. Daniela Berg*

Funding institution: Federal Ministry of Education and Research (BMBF)

Joint Research Project “Identification of prediction and progression biomarkers in the earliest stages of Parkinson’s disease (Neuro-D13B)”

*Project leaders: Prof. Dr. Daniela Berg,
Prof. Dr. Walter Maetzler, Prof. Dr. Olaf Riess (UKT)*
Funding institutions: Federal Ministry of Education and Research (BMBF), UCB Pharma GmbH

PPMI – The Parkinson’s Progression Markers Initiative

Project leaders: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

PPMI – Amendment: Genetic PPMI

Project leaders: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

PPMI Amendment – Cognitive categorization assessment

Project leader: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

Inclusion of Resting State MRI: A Parkinson’s Progression Markers Initiative (PPMI) Substudy

Project leader: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

P-PPMI – Prodromal subjects

Project leader: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

Observational study in non-demented patients with Parkinson’s disease with lowered A-beta1-42 CFS levels

*Project leaders: PD Dr. Inga Liepelt-Scarfone,
Prof. Dr. Daniela Berg, Prof. Dr. Walter Maetzler*
Funding institution: Janssen Pharmaceutica NV

Effects of various training activities on symptoms and adaptive brain plasticity in patients with idiopathic PD

Project leader: Prof. Dr. Daniela Berg
Funding institution: AKF (Applied Clinical Research) program, University of Tübingen

Validation study on the MDS clinical criteria of Parkinson’s disease

Project leader: Prof. Dr. Daniela Berg
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

PPMI – Amendment 10

Project leader: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

PPMI – Amendment 11

Project leader: Dr. Kathrin Brockmann
Funding institution: Michael J. Fox Foundation for Parkinson’s Research (MJFF)

TrainParC: Cognitive training for treatment of cognitive dysfunctions and prevention of cognitive decline in patients with Parkinson’s disease and Mild Cognitive Impairment (PD-MCI): behavioral effects, prediction of response and underlying mechanisms

Project leader: PD Dr. Inga Liepelt-Scarfone
Funding institution: ParkinsonFonds Deutschland gGmbH

EPI589-15-002: A phase 2A Safety and Biomarker Study of EPI-589 in Mitochondrial Subtype and Idiopathic Parkinson’s Disease Subjects

Project leader: Prof. Dr. Thomas Gasser
Funding institution: Edison Pharmaceuticals, Inc.

Study B7601011: A 15-week, phase 2, double blind, randomized, placebo controlled, flexible dose study to investigate the efficacy, safety and tolerability of PF-06649751 in subjects with early stage Parkinson’s disease

*Project leaders: Prof. Dr. Thomas Gasser,
Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone*
Funding institution: Pfizer Inc.

ACT14820-MOVES-PD: Multizentrische, randomisierte, doppelblinde, placebokontrollierte Studie zur Beurteilung der Wirksamkeit, Sicherheit, Pharmakokinetik und Pharmakodynamik von GZ/SAR402671 bei Patienten mit Morbus Parkinson im Frühstadium, die eine GBA-Mutation oder eine vorselektierte Variante tragen

Project leaders: Prof. Dr. Thomas Gasser, Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone
Funding institution: Sanofi-Aventis Deutschland GmbH

Identification of compounds preventing cognitive decline in Parkinson's disease patients using clinically correlated iPS cell models (PDdementia)

Project leaders: Prof. Dr. Thomas Gasser, Dr. Kathrin Brockmann
Funding institution: Federal Ministry of Education and Research (BMBF)

Tumorigenesis in LRRK2 associated Parkinson's disease

Project leaders: Prof. Rachel Saunders-Pullman, Dr. Saskia Biskup
Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

Monocyte monitoring in LRRK2 associated Parkinson's disease

Project leaders: Prof. Dr. Thomas Gasser, Dr. Dr. Saskia Biskup
Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

The Edmond J. Safra Fellowship in Movement Disorders 2016

Project leader: Prof. Dr. Thomas Gasser
Funding Institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

Genetic basis of dystonia in Turkish families

Project leaders: Prof. Dr. Thomas Gasser, Dr. Ebba Lohmann
Funding institution: German Research Foundation (DFG)

Mitochondrial endophenotypes of PD (Mito-PD)

Project leaders: Prof. Dr. Thomas Gasser (coordinator), Prof. Dr. Rejko Krüger, Dr. Kathrin Brockmann
Funding institution: Federal Ministry of Education and Research (BMBF)

Unraveling the Missing Heritability of Rare Neurodegenerative Diseases and Movement Disorders in German and Tunisian Populations (TUNGERGENE)

Project leader: Prof. Dr. Thomas Gasser
Funding institution: Federal Ministry of Education and Research (BMBF)

Multimodal imaging of rare synucleinopathies (MultiSyn)

Project leader: Prof. Dr. Thomas Gasser (coordinator)
Funding institution: EU

CENTRE-PD: TWINNING for a Comprehensive Clinical Centre for the Diagnosis and Treatment of Parkinson's Disease (Luxemburg, Oxford, Tübingen)

Project leaders: Prof. Dr. Thomas Gasser, PD Dr. Inga Liepelt-Scarfone
Funding institution: EU

Towards a unifying theory of Parkinson's disease: Investigation of the biochemical and genetic role of Rab GTPases

Project leader: Prof. Dr. Thomas Gasser
Funding institution: Centers of Excellence Network (CoEN)

Understanding the molecular pathogenesis of GBA1-associated Parkinson's disease by using engineered induced pluripotent stem cells

Project leader: Jun.-Prof. Dr. Dr. Michela Deleidi
Funding institution: German Research Foundation (DFG)

Investigation of molecular and cellular functions of TDP-43 and FUS, pathorelevant proteins in frontotemporal dementias (FTD) and amyotrophic lateral sclerosis (ALS)

Project leader: Prof. Dr. Philipp Kahle
Funding institution: German Research Foundation (DFG)

Decipher the Complexity and Plasticity of Epigenomic Characteristics Under Influence of Environmental Factors in the Pathomechanistic Regulation of Parkinson's Disease (decipherPD): German-Canadian-French Joint Transnational Project „Epigenomics of Complex Diseases“

Project Leader: Prof. Dr. Philipp Kahle
Funding Institution: Federal Ministry of Education and Research (BMBF)

Virtual Institute: RNA dysmetabolism in ALS and FTD

Project leader: Prof. Dr. Philipp Kahle
Funding institution: German Center for Neurodegenerative Diseases (DZNE)

Third-Party Funding

ONGOING GRANTS

DZNE Crosscutting Project: Posttranslational Modifications of TDP-43

Project leader: Prof. Dr. Philipp Kahle

Funding institution: NOMIS Foundation

Genomweiter RNAi Screen der Parkin abhängigen Eliminierung von depolarisierten Mitochondrien

Project leader: Dr. Sven Geisler

Funding institution: German Research Foundation (DFG)

The importance of DJ-1 for the regulation of mitochondrial dynamics and autophagy in murine and human neuronal models of Parkinson's disease

Project leaders: Prof. Dr. Thomas Gasser, Prof. Dr. Rejko Krüger

Funding institution: German Research Foundation (DFG)

Mitochondria in neurodegeneration and ageing – translating impaired mitochondrial dynamics to novel therapeutic strategies

Project leaders: Prof. Dr. Rejko Krüger, Prof. Dr. Philipp Kahle

Funding Institution: German Center for Neurodegenerative Diseases (DZNE)

Identification of modulators of the PINK1/Parkin-dependent mitophagy by siRNA based high-content screening of mitochondrial Parkin translocation

Project leader: Dr. Sven Geisler

Funding institution: ONO Pharmaceuticals

Combined interleaved stimulation of STN and SNr for mobility impairment related to freezing of gait:

A randomized controlled clinical trial

Project leaders: PD Dr. Daniel Weiß, Prof. Dr. Alireza

Gharabaghi, Prof. Dr. Rejko Krüger, Dr. Georgios Naros

Funding institution: Medtronic

Subthalamic steering for therapy optimization in Parkinson's disease (SANTOP)

Investigator: PD Dr. Daniel Weiß

Funding Institution: Abott

Lateral steering of nigral stimulation for freezing of gait in Parkinson's disease (NIGRASTEER)

Investigator: PD Dr. Daniel Weiß

Funding Institution: Boston Scientific

Restitution of oral transport, deglutition, and aspiration with nigral stimulation in Parkinson's disease?

Investigator: PD Dr. Daniel Weiß

Funding Institution: Michael J. Fox Foundation

Development of a screening tool for the treatment of chronic migraine with botulinum toxin

Project leader: Dr. Tobias Wächter

Funding institution: Pharm-Allergan

Genetic disorders in Arab societies of Israel and the Palestinian authorities

Project leader: Prof. Dr. Ludger Schöls

Funding institution: German Research Foundation (DFG)

ESMI: European Spinocerebellar Ataxia Type 3 / Machado-Joseph Disease Initiative

Project leader: Prof. Dr. Ludger Schöls

Funding institution: EU

Translate NAMSE

Principle investigator: Prof. Dr. Ludger Schöls

Funding institution: Innovationsfond

Integrated European Project on Omics Research of Rare Neuromuscular and Neurodegenerative Diseases (NEUROMICS):

Diagnosis and therapy project of Rare Neuromuscular and Neurodegenerative Diseases

Project leaders: Prof. Dr. Ludger Schöls,

Prof. Dr. Olaf Rieß (UKT)

Funding institution: EU

Genetic basis of hereditary spastic paraplegias

Project leaders: Prof. Dr. Ludger Schöls, PD Dr. Rebecca Schüle

Funding institution: HSP Support Group; Germany e.V.

27 hydroxy-sterol toxicity in the pathophysiology of SPG5

Project leaders: Prof. Dr. Ludger Schöls, PD Dr. Rebecca Schüle

Funding institution: HSP Support Group; Germany e.V.

Alliance for Treatment in HSP and PLS

Project leader: PD Dr. Rebecca Schüle

Funding institution: Spastic Paraplegia Foundation (SPF)

European HSP registry*Project leaders: PD Dr. Rebecca Schüle, Prof. Dr. Ludger Schöls*

Funding institution: HSP Selbsthilfegruppe e.V.

E-RARE composite NEURO LIPID: Role of lipid metabolism hereditary spastic paraplegia in the pathogenesis: genes, biomarkers and therapeutic models*Project leader: PD Dr. Rebecca Schüle*

Funding institution: EU

Statin Treatment of Oxysterol Pathology in SPG5 (STOP SPG5)*Project leaders: PD Dr. Rebecca Schüle, Prof. Dr. Ludger Schöls*

Funding institution: Eva-Luise und Horst Köhler Stiftung

Entwicklung und Evaluation eines modularen Physiotherapiekonzepts für Patienten mit Hereditärer Spastischer Spinalparalyse (HSP)*Project leaders: PD Dr. Rebecca Schüle, Prof. Ludger Schöls*

Funding institution: Förderverein für HSP-Forschung e.V.

Natural history in Hereditary Spastic Paraplegia*Project leaders: PD Dr. Rebecca Schüle, Prof. Dr. Ludger Schöls*

Funding institution: HSP Support Group; Germany e.V.

Clinical Research in ALS and Related Disorders for Therapeutic Development (CReATe) Consortium*Project leader: PD Dr. Rebecca Schüle*

Funding institution: National Institutes of Health (NIH/NINDS)

Exome Studies in Hereditary Spastic Paraplegia – Beyond the Exome*Project leader: PD Dr. Rebecca Schüle*

Funding institution: National Institutes of Health (NIH/NINDS)

Alliance for Treatment in HSP and PLS*Project leader: PD Dr. Rebecca Schüle*

Funding institution: Spastic Paraplegia Foundation Inc.

Validierung eines Physiotherapiekonzeptes für die Hereditäre Spastische Spinalparalyse*Project leader: PD Dr. Rebecca Schüle*

Funding: Interdisziplinäres Zentrum für Klinische Studien (IZKF) Tübingen

A randomised delayed entry trial of intensive home-based speech therapy in Friedreich ataxia*Project leader: Prof. Dr. Matthis Synofzik*

Funding institution: Centre for Rare Diseases, Tübingen

A randomised delayed entry trial of intensive home-based speech therapy in spinocerebellar ataxias*Project leader: Prof. Dr. Matthis Synofzik*

Funding institution: German Heredo-Ataxia Society

A randomised delayed entry trial of intensive home-based speech therapy in ARSACS – Detecting PreAtaxia: A mixed challenge strategy to identify ataxia at its preclinical stage*Project leader: Prof. Dr. Matthis Synofzik*

Funding institution: Fondation de l'Ataxie Charlevoix, Saguenay

Slowing down disease progression in premanifest SCA: A piloting interventional exergame trial (SlowSCA)*Project leader: Prof. Dr. Matthis Synofzik*

Funding institution: Center for Rare Diseases, Tübingen

Implementation of registry- and biobank-based patient and expert network for early-onset ataxias*Project leader: Prof. Dr. Matthis Synofzik*

Funding institution: Actelion Pharmaceuticals

Solving the unsolved: Next generation genomics of early-onset ataxia (NextGenATAX)*Project leader: Prof. Dr. Matthis Synofzik*

Funding Institution: Else Kröner Fresenius Stiftung

NCER-PD – National Centre of Excellence in Research on Parkinson's Disease*Project leaders: Prof. Dr. Daniela Berg,**PD Dr. Inga Liepelt-Scarfone*

Funding institution: Fonds nationale de la Recherche Luxembourg / Université Luxembourg

PREPARE: Preparing therapies for autosomal recessive ataxias*Project leader: Prof. Dr. Matthis Synofzik*

Funding Institution: ERARE JTC Grant

From structure and function to allosteric targeting of LR-RK2-mediated Parkinson's disease (Grant ID: 8068.02)*Project leader: PD Dr. Christian Johannes Gloeckner*

Funding Institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

Third-Party Funding

NEW GRANTS

Fellowship 2018

Project leader: Prof. Dr. Thomas Gasser

Funding institution: Deutsche Parkinson Vereinigung

LRRK2 as a target for the treatment of Parkinson's disease

Project leader: Prof. Dr. Thomas Gasser

Funding institution: German Research Foundation (DFG)

Multi-dimensional stratification of Parkinson's disease patients for personalized interventions

Project leader: Prof. Dr. Thomas Gasser

Funding institution: Federal Ministry of Education and Research (BMBF)

Data Integration for Future Medicine (DIFUTURE).

Project leader: Prof. Dr. Thomas Gasser

Funding institution: Federal Ministry of Education and Research (BMBF)

iMed: A Comprehensive Evaluation of Diagnostic and Prognostic Biomarkers in Diabetes Progression and Neurodegeneration

Project leader: Prof. Dr. Thomas Gasser

Funding institution: German Center for Neurodegenerative Diseases (DZNE)

Blood Based Mitochondrial Biomarkers of Parkinson's Disease

Project leader: Dr. Julia Fitzgerald

Co-project leader: Dr. Gerrit Machetanz

Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

GRK 2364: MOMbrane: The Multifaceted Functions and Dynamics of the Mitochondrial Outer Membrane

Project leaders: Dr. Julia Fitzgerald, Prof. Dr. Philipp Kahle

Funding institution: German Research Foundation (DFG) Research Training Group GRK 2364

ZSE-DUO

Principle investigator: Prof. Dr. Ludger Schöls

Funding institution: Innovationsfond

Non-motor features in Hereditary Spastic Paraplegia

Project leaders: Dr. Tim Ratty, PD Dr. Rebecca Schüle,

Prof. Dr. Ludger Schöls

Funding institution: HSP Support Group; Germany e.V.

Biomarkers of axonal degeneration in HSP

Project leader: PD Dr. Rebecca Schüle

Funding institution: National Institutes of Health (NIH/NINDS)

Biomarkers of axonal degeneration in HSP

Project leader: PD Dr. Rebecca Schüle

Funding: Australian Research Foundation

Frequency of putative high-frequency NPC1 and NPC2 variants in neurological and control populations

Project leaders: Prof. Dr. Matthias Synofzik,

PD Dr. Rebecca Schüle

Funding institution: Actelion Pharmaceuticals

EU Horizon 2020 RIA Research and Innovation action: Solving the Unsolved Rare Diseases (Solve RD)

Co-Project leaders: Prof. Dr. Matthias Synofzik,

PD Dr. Rebecca Schüle

Funding Institution: EU

Biomarkers of Axonal Degeneration in HSP

Project leaders: PD Dr. Rebecca Schüle,

Prof. Dr. Matthias Synofzik

Funding institution: National Institutes of Health (NIH), HSP Research Foundation

Validation of the RADIAL algorithm in an independent early-onset ataxia cohort

Project leader: Prof. Dr. Matthias Synofzik

Funding institution: Actelion Pharmaceuticals

Etablierung einer Messmethode zur quantitativen Erfassung von Bewegungsparametern im Lebensumfeld bei Patienten mit degenerativer Ataxie

Project leader: Prof. Dr. Matthias Synofzik

Funding institution: German Heredo-Ataxia Society

Unravelling progression biomarkers in ARSACS: a multicenter transmodal combined fluid biomarker and magnetic resonance imaging study

Project leader: Prof. Dr. Matthis Synofzik

Funding institution: Fondation de l'Ataxie Charlevoix, Saguenay

Neurofilamente als blutbasierter Progressions- und Therapie-Biomarker für SCA3: eine spezieübergreifende Analyse bei SCA3-Patienten und SCA3-Mäusen

Project leader: Prof. Dr. Matthis Synofzik

Funding institution: Stiftung Hoffnung

Bronya J. Keats International Research Collaboration Award: Speech Trial in FA

Project leaders: Prof. Dr. Matthis Synofzik, Dr. Adam Vogel

Funding institution: Friedreich's Ataxia Research Alliance (FARA)

SpeechAtax: A rater-blinded randomised controlled trial of intensive home-based speech treatment for ataxia

Co-Project leaders: Dr. Adam Vogel, Prof. Dr. Matthis Synofzik

Funding Institution: Australian National Health and Research Council-MRFF-Research Gate

Kognitive Stimulation bei Patienten mit Parkinson-Demenz: Wirksamkeit, Prädiktoren des Trainingserfolgs und gesundheitsökonomische Evaluation

Project leader: PD Dr. Inga Liepelt-Scarfone

Funding institution: Universität zu Köln

Influence of Inflammatory Profiles on PD Phenotype and Progression

Project leader: Dr. Kathrin Brockmann

Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

Cognitive-driven ADL impairment as a predictor for Parkinson's disease Dementia (PDD)

Project leader: PD Dr. Inga Liepelt-Scarfone

Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

Roche Pasadena Studie BP39529: a randomized, double-blind, placebo-controlled, 52-week phase II study to evaluate the efficacy of intravenous RO7046015 (PRX002) in participants with early Parkinson's disease with a 52-week blinded extension Pasadena
Project leaders: Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser
Funding institution: F. Hoffmann-La Roche AG

PPMI - Amendment 13

Project leader: Dr. Kathrin Brockmann

Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF)

Understanding the molecular pathogenesis of GBA1-associated Parkinson's disease by using engineered induced pluripotent stem cells

Project leader: Dr. Dr. Michela Deleidi

Funding institution: German Research Foundation (DFG)

Study of the role of the GBA-mediated lysosomal impairment in Parkinson's disease

Project leader: Dr. Dr. Michela Deleidi

Funding institution: Fondazione Cariplo

Mapping the glucocerebrosidase interaction network to identify novel therapeutic targets for Parkinson's disease

Project leader: Dr. Dr. Michela Deleidi

Funding institution: Juniorprofessuren-Programm Baden-Württemberg Ministry of Science, Research and the Arts

MiTO-ND: Mitochondrial Neurodegeneration

Project leader: Dr. Dr. Michela Deleidi

Funding institution: Network of Centres of Excellence in Neurodegeneration (COEN)

Interaction between ageing and immune dysfunction in LRRK2 Parkinson's disease

Project leader: Dr. Dr. Michela Deleidi

Funding institution: Network of Centres of Excellence in Neurodegeneration (COEN)

Awards

Dr. Julia Fitzgerald and Dr. Carola Rotermund

Gender Equality Prize of The Medical Faculty 2018,
University of Tübingen

Dr. Sarah Wiethoff

Attempto Prize, University of Tübingen

Conferences & Workshops

5. Tübinger - Stuttgarter Parkinson Tag

Leinfelden-Echterdingen, 22 September 2018

Scientific coordinators: Dr. Kathrin Brockmann, PD Dr. Inga Liepelt-Scarfone, Dr. Heinz Herbst (Neuronetz Stuttgart)

PREPARE Annual Meeting

Montreal, 30-31 October 2018

Scientific coordinator: Prof. Dr. Matthias Synofzik

MD Theses

(Completed in 2018)

Ellen Fehlert

Evaluation der genetischen Marker APOE ϵ 4, MAPT, SNCA und LRRK2 sowie der Osteopontin-Plasmakonzentration als Demenz-Prädiktoren bei Morbus Parkinson in einem Kollektiv der DEMPARK-Studie

Supervisors: Prof. Dr. Daniela Berg, Prof. Dr. Walter Mätzler, PD Dr. Inga Liepelt-Scarfone

Eva-Maria Heine

Das RLS in der älteren Bevölkerung - Auswertung der Daten der TREND-Studie in Bezug auf RLS und dessen Zusammenhang zu TCS-Befunden und Prodromalmarkern für Morbus Parkinson

Supervisor: Prof. Dr. Daniela Berg

Dr. Lena Kuhn

Mutationsscreening und Assoziationsstudien im SLC9A6 Gen als Kandidatengen für corticobasale Degeneration

Supervisor: Prof. Dr. Rejko Krüger

Martin Linzner

Transkranielle Sonographie bei Risikopatienten für die Parkinson-Erkrankung

Supervisor: Prof. Dr. Daniela Berg

Dr. Anna Schöllmann

Modulation neuromuskulärer Synchronisation und kortikaler Aktivität durch transkranielle Gleichstromstimulation bei Patienten mit idiopathischem Parkinsonsyndrom

Supervisor: PD Dr. Daniel Weiß

Master Theses

(Completed in 2018)

Marie Gauder

Large-scale genomics on data from Hereditary Spastic Paraplegia (HSP) patients

Supervisor: PD Dr. Rebecca Schüle

Benedikt Hölbling

Modelling Hereditary Spastic Paraplegia using CRISPR/Cas9 edited mammalian cells and yeast complementation assays

Supervisor: PD Dr. Rebecca Schüle

Maike Nagel

Gene correction in an induced pluripotent stem cell model of Hereditary Spastic Paraplegia Type 46 using CRISPR/CAS9 technology

Supervisor: PD Dr. Rebecca Schüle

Srinethe Saravanan

CRISPR-Cas9 mediated knockout of CHIP protein in iPSCs and induction of cotritcal neurons

Supervisor: Prof. Dr. Ludger Schöls

Anna Schaedler

Dopamine Metabolism in a Neuronal PINK1 Model of Parkinson's Disease

Supervisor: Dr. Julia Fitzgerald

Fabienne Waga

Computerized cognitive test profile of 94 patients with and without Amyloid- β 1-42 burden

Supervisor: PD Dr. Inga Liepelt-Scarfone

Bachelor Theses

(Completed in 2018)

Sofie Englisch

Proteinbiochemische Analyse der GTPase Aktivität von LRRK2

Supervisor: PD Dr. Christian Johannes Gloeckner

Hanna Glasebach

TDP-43 ubiquitylation is independent of stress granule formation upon osmotic stress

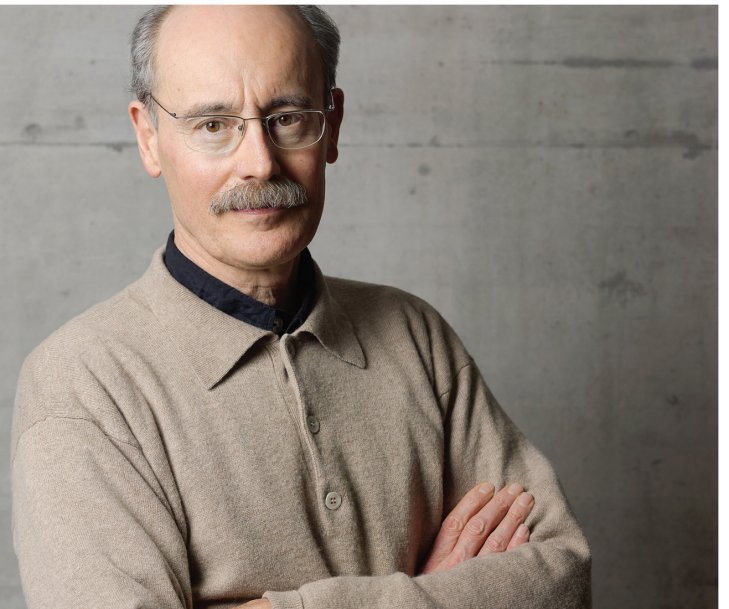
Supervisor: Prof. Dr. Philipp Kahle

Marius Kolodziej (Coburg University)

Lipid binding of LRRK2 and possible effects on its GTPase activity

Supervisor: PD Dr. Christian Johannes Gloeckner

Department of Cognitive Neurology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Hans-Peter Thier

GROUP LEADERS/ATTENDING PHYSICIANS

Prof. Dr. Martin Giese
Dr. Daniel Häufle
Prof. Dr. Ziad Hafed
PD Dr. Marc Himmelbach
Prof. Dr. Uwe Ilg
Prof. Dr. Dr. Hans-Otto Karnath
Prof. Dr. Cornelius Schwarz

SCIENTISTS/RESIDENTS

Dr. Alia Benali
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Dr. Amarender Reddy Bogadhi
Nadja Büchler (until 09/2018)
Dr. Antimo Buonocore
Dr. Shubhodeep Chakrabarti
Dr. Andrea Christensen
Dr. Bianca de Haan (until 01/2018)
Dr. Peter Dicke
Dr. Tjeerd Dijkstra
Dr. Winfried Ilg
Dr. Fatemeh Khademi
Jasmin Klopfer
Dr. Jindrich Kodl
PD Dr. Axel Lindner (until 10/2018)
Albert Mukovskiy
Dr. Christine Pedroarena
Dr. Jörn Pomper
Dr. Dr. Silvia Spadacenta
Konstantin Willeke

PHD DOCTORAL STUDENTS

Joachim Bellet
 Ian Chong
 Amin Dadashi
 Martina Feierabend
 Marius Görner
 Kalpana Gupta
 Mohammad Hovaidi Ardestani
 Bingshuo Li
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 Haian Mao
 Akshay Markanday
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 Simone Mölbert
 Sophia Nestmann
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 Christina Pley
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 Hamidreza Ramezanpour
 Julia Riede
 Hannah Rosenzopf
 Manuel Roth
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 Mohammad Shams Ahmar
 Ramona Siebert
 May Li Silva Prieto
 Christoph Sperber
 Oleg Spivak
 Michael Stettler
 Katrin Stollenmaier
 Nick Taubert
 Xiaoguang Tian (until 02/2018)
 Shengjun Wen
 Daniel Wiesen

MEDICAL DOCTORAL STUDENTS

Maria Sophie Breu
 Jacob Clausen
 Julia Göddel
 Carolin Holzbour
 Katharina Klaner
 Karla Lauer
 Joel C. Marques
 Sarah Louisa Merkel
 Julia-Katharina Müller
 Vincent Müller
 Azam Shahvaroughi-Faharani
 Dominik-David Wabersich

**MASTER STUDENTS/
TEACHERS' & PROJECT THESES**

Matthias Philipp Baumann
 Anna-Karina Fichtner
 Adrian Claudio Friese
 Svenja Hemmers
 Philipp Herbs
 Julia Kiefer
 Nicole Knodel
 Jennifer Metzger
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**TECHNICAL STAFF/
ADMINISTRATION**

Mirjana Angelovska
 Ina Baumeister
 Rüdiger Berndt
 Dr. Friedemann Bunjes
 Ute Großhennig
 Dagmar Heller-Schmerold
 Masih Shafiei
 Julianne Skinner (until 10/2018)
 Björn Müller
 Jonathan Oesterle (until 03/2018)
 Ursula Pascht

Clinical Studies

PreAtaxia: Changes in the control of posture and gait in pre-symptomatic and pre-clinical stages of degenerative cerebellar ataxia

Investigators: Dr. Winfried Ilg, Zofia Fleszar, Cornelia Schatton, Prof. Dr. Martin Giese, Prof. Dr. Ludger Schöls, Prof. Dr. Matthis Synofzik

Motor training in pre-clinical stages of degenerative cerebellar ataxia

Investigators: Dr. Winfried Ilg, Cornelia Schatton, Prof. Dr. Martin Giese, Prof. Dr. Ludger Schöls, Prof. Dr. Matthis Synofzik

Examination of the influence of visual feedback on real and pantomimed object use in apraxia

Investigators: Dr. Andrea Christensen, Dr. Winfried Ilg, Prof. Dr. Martin Giese, Prof. Dr. Dr. Hans-Otto Karnath, Christoph Sperber

Examination of the specific influence of areas in the cerebellum on learning to control a dynamical system

Investigators: Nicolas Ludolph, Prof. Dr. Dagmar Timmann, Prof. Dr. Martin Giese, Dr. Winfried Ilg

Videogame-based coordinative training in children with degenerative ataxia

Investigators: Dr. Winfried Ilg, Prof. Dr. Matthis Synofzik, Prof. Dr. Martin Giese, Prof. Dr. Ludger Schöls

Cerebellar ataxia as a loss of precise velocity duration trade-off

Investigators: Julian Meßner, Akshay Markanday, Prof. Dr. Hans-Peter Thier

Neurobiologische Grundlagen der Emotionserkennung aus menschlichen Gangsequenzen bei Gesunden und Patienten mit psychischen Erkrankungen

Investigators: Ann-Christine Ehlis, Dr. Andrea Christensen, Prof. Dr. Andreas Fallgatter, Prof. Dr. Martin Giese

Examination of the influence of the cerebellum on the interaction between action and perception

Investigators: Dr. Winfried Ilg, Dr. Andrea Christensen, Prof. Dr. Martin Giese, Prof. Dr. Dagmar Timmann

Evaluation of object functionality and mechanical reasoning in humans

Investigators: PD Dr. Marc Himmelbach, Prof. Dr. Dr. Hans-Otto Karnath

Affective biological motion recognition in schizophrenia

Investigators: Prof. Dr. Martin Giese, Dr. Andrea Christensen and external partners

‘Gaze Following’ bei Autismus-Spektrumstörung

Investigators: Manuel Roth, PD Dr. Axel Lindner, Prof. Dr. Hans-Peter Thier

Neuronale Grundlagen der Integration geometrischer und kontextabhängiger Information zur Ausrichtung sozialer Aufmerksamkeit

Investigators: Dr. Peter Dicke, Prof. Dr. Hans-Peter Thier

Pattern recognition in neuro-vestibular diagnostics, a retrospective analysis

Investigators: Dr. Jörn Pomper, Dr. Friedemann Bunjes, Prof. Dr. Hans-Peter Thier

Clinical patterns in patients with dizziness: how much can we gain from subjective reports by questionnaires

Investigators: Dr. Jörn Pomper, Vincent Müller, Dr. Friedemann Bunjes, Prof. Dr. Hans-Peter Thier

Demarcation of subjective value from arousal during action observation in F5 mirror neurons

Investigators: Dr. Jörn Pomper, Dr. Dr. Silvia Spadacenta, Dr. Friedemann Bunjes, Prof. Dr. Martin Giese, Prof. Dr. Hans-Peter Thier

Comparison of action specificity during action execution and observation in F5 mirror neurons

Investigators: Dr. Jörn Pomper, Shengjun Wen, Dr. Dr. Silvia Spadacenta, Dr. Friedemann Bunjes, Prof. Dr. Hans-Peter Thier

MRI substrates of specific neuropsychological dysfunctions within and across FTD genotypes at the presymptomatic and symptomatic disease stage

Investigators: PD Dr. Marc Himmelbach, Prof. Dr. Matthias Synofzik, Prof. Dr. Dr. Hans-Otto Karnath, Dominik-David Wabersich

Treating dystonia by brain stimulation

Investigators: Dr. Ebba Lohmann, PD Dr. Marc Himmelbach, Prof. Dr. Dr. Hans-Otto Karnath

Tremor, Blickbewegungen und neuropsychiatrische Evaluation bei Patienten mit zervikaler Dystonie

Investigators: Prof. Dr. Uwe Ilg, PD Dr. Marc Himmelbach, Dr. Ebba Lohmann

Third-Party Funding

ONGOING GRANTS

Selective attention and perceptual awareness: Testing the competitive interaction hypothesis

(HA 5839/4-1)

Project leader: Dr. Bianca de Haan,

Funding institution: German Research Foundation (DFG)

CogIMon – Cognitive Interaction in Motion

(EU H2020-ICT-2014 644727)

Project leader: Prof. Dr. Martin Giese

Funding institution: EU

Setup and maintenance of the Section for Computational Sensomotorics

(EXC 307 – CIN)

Project leader: Prof. Dr. Martin Giese

Funding institution: German Research Foundation (DFG)

Neural mechanisms underlying the visual analysis of intent

(RGP0036/2016)

Project leader: Prof. Dr. Martin Giese

Funding institution: Human Frontiers Science Program (HFSP)

CIN Mini Research Training Project

(EXC 3017, Mini_KG-2017-04)

Project leader: Prof. Dr. Martin Giese

Funding institution: German Research Foundation (DFG)

KONSENS-NHE – Entwicklung eines Kontext-sensitiven neural-gesteuerten Handexoskeletts zur Wiederherstellung der Alltagsfähigkeit nach Hirn- und Rückenmarksverletzungen

Project leaders: Prof. Dr. Martin Giese, Prof. Dr. Surjo Soekadar, Dr. Martin Spüler

Funding institution: Baden-Württemberg Foundation

Third-Party Funding

ONGOING GRANTS

System Human Being: Multi-level modeling in motor control and rehabilitation robotics

(33-7533.-30-20/7/2)

Project leader: Dr. Daniel Häufle

Funding institution: Ministerium für Wissenschaft, Forschung und Kunst Baden Württemberg (MWK)

Active Perception –

Übergangsfinanzierung zur W3-Professur

Project leader: Prof. Dr. Ziad Hafed

Funding institution: Excellence Initiative/
German Research Foundation (DFG)

SFB 1233 – Project 11: Stable vision in the presence of fixational eye movements: where and how is the retinal image jitter compensated?

(DFG SFB 1233, Robust Vision', TP 11)

Project leaders: Prof. Dr. Frank Schaeffel, Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

CIN Mini Research Training Project

(EXC 307, Mini_KG-2017-04)

Project leader: Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

Research Unit FOR 1847 „Primate Systems Neuroscience“ – Project A6: Brainstem control of slow ocular drifts during gaze fixation

(HA 6749/2-1)

Project leader: Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

Motor functions and connectivity of the superior colliculus

(HI 1371/1-2)

Project leader: PD Dr. Marc Himmelbach

Funding institution: German Research Foundation (DFG)

MOOC Methods in clinical research

(F.7312016)

Project participants: PD Dr. Marc Himmelbach,

Snezana Maljevic, Prof. Dr. Thomas Gasser

Funding Institution: Medical Faculty Tübingen (PROFIL plus)

Pupils Lab for Neuroscience

(P1150100)

Project leader: Prof. Dr. Uwe Ilg

Funding institution: Hertie Foundation

Videogame-based coordinative training in children with degenerative ataxia

Project leaders: Dr. Winfried Ilg, Prof. Dr. Matthias Synofzik

Funding institution: Oliver-Vaihinger-Fond, Stiftung für kranke Kinder

Selective attention and perceptual awareness: Testing the competitive interaction hypothesis

(KA 1258/20-1)

Project leaders: Prof. Dr. Dr. Hans-Otto Karnath,

Dr. Bianca de Haan

Funding institution: German Research Foundation (DFG)

The neural correlates of apraxia and the role of feedback in apraxic errors – doctoral scholarship Christoph Sperber

Project leader: Prof. Dr. Dr. Hans-Otto Karnath

Funding institution: Friedrich Naumann Foundation

Defizite der räumlichen Orientierung nach posterioren cerebralen Infarkten – doctoral scholarship Jacob Clausen

Project leader: Prof. Dr. Dr. Hans-Otto Karnath

Funding institution: Sigmund-Kiener Foundation

Unresolved issues in unilateral neglect: An update

(Nr. 11601161)

Project leaders: Prof. Dr. Dr. Hans-Otto Karnath,

Daniel Wiesen

Funding institution: Luxembourg National Research Fund

Benefits of a game-based cognitive interface for knowledge work – from basic effects and neural correlates to neuro-psychological rehabilitation

Project leaders: Prof. Dr. Manuel Ninaus,

Prof. Dr. Dr. Hans-Otto Karnath

Funding institution: Leibniz-Institut für Wissensmedien

Individuelle Erholung von kognitiven Defiziten nach Schlaganfall

(KA 1258/23-1)

Project leader: Prof. Dr. Dr. Hans-Otto Karnath

Funding institution: German Research Foundation (DFG)

The role of neocortex in declarative learning: Function and cellular mechanisms of plasticity in the primary sensorimotor cortex as bases for the conditioning of the blink reflex

(SCHW 577/12-1)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

Psychophysik und Kodierung des vibrotaktilen Signals im taktilen System von Ratte und Mensch

(SCHW 577/14-1)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

Functional modules in primary motor cortex (SCHW 577/16-1)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

CIN Mini Research Training Project (EXC 307, Mini_KG-2017-04)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

Research Unit FOR 1847 “Primate Systems Neuroscience” – Project A3: The role of the cerebellum in the control of saccades as a window into neural mechanisms of movement optimization

(TH 425/13-2)

Project leader: Prof. Dr. Hans-Peter Thier

Funding institution: German Research Foundation (DFG)

Research Unit FOR 1847 “Primate Systems Neuroscience” – Central Office Project

(TH 425/14-2)

Project leader: Prof. Dr. Hans-Peter Thier

Funding institution: German Research Foundation (DFG)

Towards the neural basis of joint attention II

(TH 425/12-2)

Project leader: Prof. Dr. Hans-Peter Thier

Funding institution: German Research Foundation (DFG)

Erfüllung der Aufgaben der Abt. Kognitive Neurologie

(T0013/29010/2016/kg)

Project leader: Prof. Dr. Hans-Peter Thier

Funding institution: Hermann and Lilly Schilling Foundation

NEW GRANTS

CRCNS US-German-Israeli Collaborative Research Proposal: Hierarchical Coordination of Complex Actions

(01GQ1704)

Project leader: Prof. Dr. Martin Giese

Funding institution: Federal Ministry of Education and Research (BMBF)

Facts and Figures: Neurofunktionelle Strukturen und kognitive Prozesse numerischer Größenverarbeitung und arithmetischen Faktenabrufs

(KA 1258/24-1)

Project leader: Prof. Dr. Dr. Hans-Otto Karnath

Funding institution: German Research Foundation (DFG)

Simulating work-related physical stress at the wrist by a computer model to assess occupational risks for musculoskeletal disorders

(Excellence Initiative / German Research Foundation)

Project leader: Dr. Daniel Häufle

Funding institution: German Research Foundation (DFG)

Entwicklung neuer Lehrkonzepte für die Veranstaltung Biorobotik

(Fonds 1040 und PSP 5150000201 (Zentrale Uni))

Project leader: Dr. Daniel Häufle

Funding institution: Fördermittel Qualitätssicherung Lehre (STURA Tü)

Vorhersage innerer Kräfte in der Wirbelsäule bei Beugebewegungen unterstützt durch ein passives Exoskelett

(Laevo-Studie Advance)

Project leader: Dr. Daniel Häufle

Funding institutions: Audi, BMW, Daimler

Die Architektur und Mechanismen neuropsychologischer Defizite in der MRT-Bildgebung präsymptomatischer und symptomatischer FTD in Abhängigkeit des Genotyps

Promotionsstipendium Domink-David Wabersich

Project leaders: Dominik-David Wabersich,

PD Dr. Marc Himmelbach

Funding institution: Sigmund-Kiener-Stiftung

Awards

Leonid Fedorov

Attempto Award 2018, University of Tübingen

Prof. Dr. Ziad Hafed, Chih-Yang Chen

“VERY GOOD” recommendation by F1000Prime for Chen et al., Nature Communications, 2018

Conferences & Workshops

Primate Neurobiology Conference 2018

Tübingen, 13-14 March 2018

Organization: Prof. Dr. Hans-Peter Thier, Dagmar Heller-Schmerold

M3 — Monkey Methods Meeting 2018

Workshop, Tübingen, 12 March 2018

Organization: Prof. Dr. Hans-Peter Thier, Dagmar Heller-Schmerold

Graduate Training in Primate Neurobiology

Workshop, Tübingen, 15-16 March 2018

Organization: Prof. Dr. Hans Scherberger (extern), Dagmar Heller-Schmerold

PhD Theses

(Completed in 2018)

Leonid Fedorov

Physiologically-inspired neural model for the encoding of action semantics

Supervisor: Prof. Dr. Martin Giese

Melanie Höller-Wallscheid

How the brains of young and old human adults cope with increased working memory demands

Supervisors: Prof. Dr. Hans-Peter Thier, PD Dr. Axel Lindner

Albert Mukovsiy

Biologically-inspired learning-based movement synthesis in computer graphics and robotics

Supervisor: Prof. Dr. Martin Giese

Xiaoguang Tian

A theoretical investigation of the links between microsaccades and attention

Supervisor: Prof. Dr. Ziad Hafed

MD Theses

(Completed in 2018)

Kira Marquardt

Über die anatomische und funktionelle Trennung der Blickrichtungsverfolgung und der Gesichtserkennung beim Menschen

Supervisor: Prof. Dr. Hans-Peter Thier

Master Theses

(Completed in 2018)

Nima Ghorbani

Generative human motion modeling

Supervisor: Prof. Dr. Martin Giese

Mario Gnädig

Online Bewegungsanalyse bei Parkinson

Supervisor: Dr. Winfried Ilg

Svenja Hemmers

Eye-Hand-Coordination during upper limb pointing movements in patients with cerebellar

Supervisors: Dr. Winfried Ilg, Dr. Daniel Häufle

Alexander Huk

Human motor control of biomechanical arm models – literature review and modeling

Supervisor: Dr. Daniel Häufle

Nicole Knodel

Finger sequence activation in the deep superior colliculus

Supervisor: PD Dr. Marc Himmelbach

Annika Muth

Erfassung von visuell-räumlichem Neglect in konventioneller und digitalisierter Form

Supervisor: Prof. Dr. Dr. Hans-Otto Karnath

Tobias Nadler

Bewegungskontrolle eines bioinspirierten Einarmroboters

Supervisor: Dr. Daniel Häufle

Chryso Papachrysostomou

Predicting the relation of joint-angle, muscle activity and contact force of tendons in the carpal tunnel by computer simulation

Supervisor: Dr. Daniel Häufle

Johannes Siegel

Simulation of human muscle energy expenditure

Supervisor: Dr. Daniel Häufle

Bachelor Theses

(Completed in 2018)

Hanna Dohmen

Cognitive evaluation of unknown tools – effects of experimental designs

Supervisor: PD Dr. Marc Himmelbach

Julia Kiefer

Position von bewegten und unbewegten Objekten – ein Wahrnehmungsexperiment

Supervisor: Prof. Dr. Uwe Ilg

Pascal Schubert

Latenzen von Blickbewegungen

Supervisor: Prof. Dr. Uwe Ilg

Joana Stäb

Korrelation zwischen Videospiele und einfachen mathematischen Fähigkeiten

Supervisor: Prof. Dr. Uwe Ilg

Franziska Uhl

Vergleich von Richtungsfehlern, Pro- und Antisakkaden als Reaktion auf isoluminante Reize unterschiedlicher Wellenlänge

Supervisor: Prof. Dr. Uwe Ilg

Lena Urbanczyk

Pupillographie der Stressreaktionen von Action-Video-Game-Spielern

Supervisor: Prof. Dr. Uwe Ilg

Department of Cellular Neurology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Mathias Jucker

GROUP LEADERS

Prof. Dr. Christoph Laske (Section of Dementia Research, jointly with the University Department of Psychiatry and Psychotherapy)

Dr. Jonas Neher

(Experimental Neuroimmunology group, jointly with the German Center for Neurodegenerative Diseases, DZNE)

SCIENTISTS/RESIDENTS

Anja Apel

Mehtap Bacioglu (until 04/2018)

Melanie Barth

Natalie Beschorner

Karoline Degenhardt (until 06/2018)

Timo Eninger

Lisa Häslér

Stephan Käser

Dr. Deborah Kronenberg-Versteeg

Ping Liu

Dr. Jörg Odenthal

Jay Rasmussen (until 03/2018)

Christine Rother

Alejandro Ruiz Riquelme

Dr. Angelos Skodras

Dr. Matthias Staufénbiel

Lisa Steinbrecher

Dr. Gaye Tanriöver

Ruth Uhlmann (née Dröge)

Jessica Wagner

Dr. Bettina Wegenast-Braun

Ann-Christin Wendeln (until 09/2018)

**TECHNICAL STAFF/
ADMINISTRATION**

Rawaa Al Shaana
Anika Bühler
Bernadette Graus
Marius Lambert
Maren Lösch (until 03/2018)
Ulrike Obermüller
Gisela Rose
Katleen Wild

CLINICAL STAFF

Elke Kuder-Buletta
Dr. Susanne Gräber-Sultan
Oliver Preische

MASTER STUDENTS

Emily-Melisa Ullrich-Gavilanes
Rusheka Maxwell

Clinical Studies**A Phase II, Multicenter, Randomized, Double-blind, Placebo-controlled, Parallel-group, Efficacy and Safety Study of MTAU9937A in Patients with Prodromal to Mild Alzheimer's Disease**

Investigators: Prof. Dr. Christoph Laske, Oliver Preische, Dr. Anja Zeller, Dr. Stephan Müller, Laura Herde, Dilan Celik

A Double-blind, Placebo-controlled, Relapse Prevention Study of Pimavanserin for the Treatment of Hallucinations and Delusions Associated With Dementia-related Psychosis

Investigators: Prof. Dr. Christoph Laske, Dr. Marvin Metzner, Cindy Boden

DIAN Dominantly Inherited Alzheimer Network:

The goal of DIAN is to study brain changes and biomarker changes in people who carry an Alzheimer's disease mutation to determine how the disease process develops before any symptoms are detected.

Investigators: Prof. Dr. Mathias Jucker, Prof. Dr. Christoph Laske, Oliver Preische, Dr. Susanne Gräber-Sultan, Elke Kuder-Buletta

DELCODE (DZNE – Longitudinal Cognitive Impairment and Dementia Study): The aim of the study is to characterize the neuronal network mechanisms of cognitive adaption and decompensation

Investigators: Prof. Dr. Christoph Laske, Dr. Martina Buchmann, Christian Mychajliw, Petra Hinderer

LipiDiDiet Trail: Complimentary treatment of patients with mild cognitive impairment with a balanced nutrition drink (Souvenaid®). A randomized double-blind comparative study of 24 months including a 12-months extension study

Investigators: Prof. Dr. Christoph Laske, Dr. Martina Buchmann, Elke Vuckovic, Gertrud Schneider-Nyakotei

A Randomized, Two-Period, Double-blind, Placebo-controlled and Open-label, Multicenter Extension Study to Determine the Long-Term Safety and Tolerability of JNJ-54861911 in Subjects in the Early Alzheimer's Disease Spectrum

Investigators: Prof. Dr. Christoph Laske, Oliver Preische, Dr. Stephan Müller, Elke Kuder-Buletta

A 24-month, Multicenter, Randomized, Double-blind, Placebo-controlled, Parallel-group, Efficacy, Safety, Tolerability, Biomarker, and Pharmacokinetic Study of AZD3293 in Early Alzheimer's Disease (The AMARANTH Study)

Investigators: Prof. Dr. Christoph Laske, Oliver Preische, Dr. Stephan Müller, Dr. Christian Mychajliw, Elke Vukovic, Dilan Celik

Third-Party Funding

ONGOING GRANTS

Generation of APP transgenic mice

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Koesler

Promotionsstipendium

Project leader: Ann-Christin Wendeln

Funding institution: Studienstiftung des deutschen Volkes

Donation for Alzheimer's biomarker research

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Anonymous donor

Characterization of early proteopathic seeds in Alzheimer's disease

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Academy of Sciences and Humanities in Hamburg

Award for medical research

Project leader: Prof. Dr. Mathias Jucker

Funding institution: MetLife Foundation USA

Donation for Alzheimer research and DIAN (Dominantly Inherited Alzheimer Network)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Anonymous donor

Intersite research grant DIAN (Tübingen site)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: German Center for Neurodegenerative Diseases (DZNE)

JPND – TARGETs: Targeting the propagation of pathogenic protein assemblies in neurodegenerative disease (01ED1502)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: BMBF: EU Joint Programme – Neurodegenerative Disease Research (JPND)

Effects of transient peripheral immune stimulation on AD pathology

Project leader: Dr. Jonas Neher

Funding institution: The Paul G. Allen Family Foundation

Epigenetic microglial memory of peripheral inflammation as a non-genetic modifier of neurological disease (Az. 10.15.2.038MN)

Project leader: Dr. Jonas Neher

Funding institution: Fritz Thyssen Stiftung

Mechanisms of Neuronal Dysfunction and Death in Sepsis-induced Cognitive Impairment (NE 1951/4-1)

Project leader: Dr. Jonas Neher

Funding institution: German Research Foundation (DFG)

The role of medin, the most common human amyloid, in the pathology of Alzheimer's disease (NE 1951/2-2)

Project leader: Dr. Jonas Neher

Funding institution: German Research Foundation (DFG)

Single cell transcriptomics for the identification of microglial responder subtypes in Alzheimer's disease

Project leader: Dr. Jonas Neher

Funding institution: ONO Pharmaceuticals (Osaka, Japan)

Verbundprojekt Sonderlinie Medizin Nr. 2440-0-0: Neuroinflammation bei der Neurodegeneration

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Ministerium für Wissenschaft, Forschung und Kunst, Baden-Württemberg

JPND - REFRAME: Pathway complexities of protein misfolding in neurodegenerative diseases: a novel approach to risks evaluation and model development (01ED1607)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: BMBF: EU Joint Programme – Neurodegenerative Disease Research (JPND)

IMPRIND (Inhibiting Misfolded protein Propagation in Neurodegenerative Diseases)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: EU Joint Programme – IMI (Innovative Medicines Initiative)

EQIPD (EUROPEAN QUALITY IN PRECLINICAL DATA)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: EU Joint Programme – IMI (Innovative Medicines Initiative)

NEW GRANTS

Strukturelle Grundlage biologisch aktiver Abeta-Konformere

Project leader: Prof. Dr. Mathias Jucker

Funding institution: German Research Foundation (DFG)

EpiROM: Epigenetic reprogramming of microglia across neurodegenerative diseases

Project leader: Dr. Jonas Neher

Funding institution: Baden-Württemberg Stiftung

PHD scholarship

Project leader: Ping Liu

Funding institution: China Scholarship Council

Mode of microglial proliferation in ageing and disease

Project leader: Dr. Deborah Kronenberg-Versteeg

Funding institution: Alexander von Humboldt Foundation

IZKF stipend “Mechanisms of Neuronal Dysfunction and Death in Sepsis-induced Cognitive Impairment”

Project leader: Linda Oberle/Dr. Jonas Neher

Funding institution: IZKF Promotionskolleg

PhD Theses

(Completed in 2018)

Karoline Degenhardt

Modulation of cerebral β -amyloidosis by myeloid cells

Supervisors: Dr. Jonas Neher, Prof. Dr. Mathias Jucker

Jay Rasmussen

β -amyloid in Alzheimer’s disease initiation and phenotypic diversity

Supervisor: Prof. Dr. Mathias Jucker

Ann-Christin Wendeln

Innate immune memory in the brain shapes neurological disease hallmarks

Supervisors: Dr. Jonas Neher, Prof. Dr. Mathias Jucker

Master Theses

(Completed in 2018)

Emily-Melisa Ullrich-Gavilanes

Pharmacokinetics of antibodies that recognize A β assemblies

Supervisors: Prof. Dr. Mathias Jucker, Dr. Jonas Neher

Rusheka Maxwell

Mapping of Epitopes of the Milk Fat Globule –Epidermal Growth Factor- Factor 8 protein

Supervisors: Prof. Dr. Philipp Kahle, Dr. Jonas Neher

Awards

Dr. Angelos Skodras

Hertie Paper of the Year Award

Ann-Christin Wendeln

Attempto Award, University of Tübingen

Prof. Dr. Mathias Jucker

Teaching Award Graduate School of Molecular and Cellular Neuroscience 2018

Conferences & Workshops

3rd DIAN Family Meeting in Germany

Würzburg, 12-13 October 2018

Coordinator: Prof. Dr. Mathias Jucker

Independent Research Groups



Physiology of Learning and Memory

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Ingrid Ehrlich

SCIENTISTS/RESIDENTS

Dr. Ayla Aksoy-Aksel
Dr. Julien Genty (from 10/2018)

TECHNICAL STAFF/ADMINISTRATION

Andrea Gall

PHD DOCTORAL STUDENTS

Melina Matthiesen (until 3/2018)

MASTER STUDENTS

Martin Zeller (from 04/2018)

INTERNSHIPS

Johannes Ungermann
Biology, University of Tübingen
(Supervisor: Prof. Dr. Ingrid Ehrlich)

Marlly Achury
Graduate Training Centre of Neuroscience, Tübingen
(Supervisor: Prof. Dr. Ingrid Ehrlich)

Third-Party Funding

ONGOING GRANTS

Plasticity of intercalated cell microcircuits in fear learning

Project leader: Prof. Dr. Ingrid Ehrlich
Funding institution: German Research Foundation (DFG)
(EH197/3-1)

Molecular Brain Development

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Dr. Simone Mayer

SCIENTISTS/RESIDENTS

Dr. Shokoufeh Khakipoor

TECHNICAL STAFF/ADMINISTRATION

Elisabeth Gustafsson



**Publications
and Student
Training
in 2018**

List of Publications in 2018

(In alphabetical order)

Peer Reviewed Articles

- Abou-Khalil B, Auce P, Avbersek A, Bahlo M, Balding DJ, Bast T, Baum L, Becker AJ, **Becker F**, Berghuis B, Berkovic SF, Boysen KE, Bradfield JP, Brody LC, Buono RJ, Campbell E, Cascino GD, Catarino CB, Cavalleri GL, Cherny SS, Chinthapalli K, Coffey AJ, Compston A, Coppola A, Cossette P, Craig JJ, de Haan G-J, De Jonghe P, de Kovel CGF, Delanty N, Depondt C, Devinsky O, Dlugos DJ, Doherty CP, Elger CE, Eriksson JG, Ferraro TN, Feucht M, Francis B, Franke A, French JA, Freytag S, Gaus V, Geller EB, Gieger C, Glauser T, Glynn S, Goldstein DB, Gui H, Guo Y, Haas KF, Hakonarson H, Hallmann K, Haut S, Heinzen EL, Helbig I, **Hengsbach C**, Hjalgrim H, Iacomino M, Ingason A, Jamnadas-Khoda J, Johnson MR, Kalviainen R, Kantanen A-M, Kasperaviciute D, Trenite DK-N, Kirsch HE, Knowlton RC, Koeleman BPC, Krause R, Krenn M, Kunz WS, Kuzniecky R, Kwan P, Lal D, Lau Y-L, Lehesjoki A-E, **Lerche H**, Leu C, Lieb W, Lindhout D, Lo WD, Lopes-Cendes I, Lowenstein DH, Malovini A, Marson AG, Mayer T, McCormack M, Mills JL, Mirza N, Moerzinger M, Moller RS, Molloy AM, Muhle H, Newton M, Ng P-W, Noethen MM, Nuernberg P, O'Brien TJ, Oliver KL, Palotie A, Pangilinan F, Peter S, Petrovski S, Poduri A, Privitera M, Radtke R, **Rau S**, Reif PS, Reinthaler EM, Rosenow F, Sander JW, Sander T, Scattergood T, Schachter SC, Schankin CJ, Scheffer IE, Schmitz B, Schoch S, Sham PC, Shih JJ, Sills GJ, Sisodiya SM, Slattery L, Smith A, Smith DF, Smith MC, Smith PE, Sonsma ACM, Speed D, Sperling MR, Steinhoff BJ, Stephani U, Stevelink R, Strauch K, Striano P, Stroink H, Surges R, Tan KM, Thio LL, Thomas GN, Todaro M, Tozzi R, Vari MS, Vining EPG, Visscher F, von Spiczak S, Walley NM, **Weber YG**, Wei Z, Weisenberg J, Whelan CD, Widdess-Walsh P, Wolff M, **Volking S**, Yang W, Zara F, Zimprich F, Int League Against Epilepsy C (2018) Genome-wide mega-analysis identifies 16 loci and highlights diverse biological mechanisms in the common epilepsies. *Nature Communications* 9:5269
- Aldape K, Amin SB, Ashley DM, Barnholtz-Sloan JS, Bates AJ, Beroukhir R, Bock C, Brat DJ, Claus EB, Costello JF, de Groot JF, Finocchiaro G, French PJ, Gan HK, Griffith B, Herold-Mende CC, Horbinski C, Iavarone A, Kalkanis SN, Karabatsou K, Kim H, Kouwenhoven MCM, McDonald KL, Miletic H, Nam DH, Ng HK, Niclou SP, Noushmehr H, Ormond DR, Poisson LM, Reifenberger G, Roncaroli F, Sa JK, Smitt P, Smits M, Souza CF, **Tabatabai G**, Van Meir EG, Verhaak RGW, Watts C, Wesseling P, Woehrer A, Yung WKA, Jungk C, Hau AC, van Dyck E, Westerman BA, Yin JL, Abiola O, Zeps N, Grimmond S, Buckland M, Khasraw M, Sulman EP, Muscat AM, Stead L, Consortium G (2018) Glioma through the looking GLASS: molecular evolution of diffuse gliomas and the Glioma Longitudinal Analysis Consortium. *Neuro-Oncology* 20:873-84
- Anttila V, Bulik-Sullivan B, Finucane HK, Walters RK, Bras J, Duncan L, Escott-Price V, Falcone GJ, Gormley P, Malik R, Patsopoulos NA, Ripke S, Wei Z, Yu D, Lee PH, Turley P, (...) , Noethen MM, Rossor M, Lupton MK, Hoffmann P, Kornhuber J, Lawlor B, McQuillin A, Al-Chalabi A, Bis JC, Ruiz A, Boada M, Seshadri S, Beiser A, Rice K, van der Lee SJ, De Jager PL, Geschwind DH, Riemenschneider M, Riedel-Heller S, Rotter JI, Ransmayr G, Hyman BT, Cruchaga C, Alegret M, Winsvold B, Palta P, Farh K-H, Cuenca-Leon E, Furlotte N, Kurth T, Ligthart L, Terwindt GM, **Freiling T**, Ran C, Gordon SD, Borck G, Adams HHH, Lehtimaki T, Wedenoja J, Buring JE, Schuerks M, Hrafnsdottir M, Hottenga J-J, Penninx B, Artto V, Kaunisto M, Vepsalainen S, Martin NG, Montgomery GW, Kurki MI, Hamalainen E, Huang H, Huang J, Sandor C, Webber C, Muller-Myhsok B, Schreiber S, Salomaa V, Loehrer E, Goebel H, Macaya A, Pozo-Rosich P, Hansen T, Werge T, Kaprio J, Metspalu A, Kubisch C, Ferrari MD, Belin AC, van den Maagdenberg AMJM, Zwart J-A, Boomsma D, Eriksson N, Olesen J, Chasman DI, Nyholt DR, Avbersek A, Baum L, Berkovic S, Bradfield J, Buono R, Catarino CB, Cossette P, De Jonghe P, Depondt C, Dlugos D, Ferraro TN, French J, Hjalgrim H, Jamnadas-Khoda J, Kalviainen R, Kunz WS, **Lerche H**, Leu C, Lindhout D, Lo W, Lowenstein D, McCormack M, Moller RS, Molloy A, Ng P-W, Oliver K, Privitera M, Radtke R, Ruppert A-K, Sander T, Schachter S, Schankin C, Scheffer I, Schoch S, Sisodiya SM, Smith P, Sperling M, Striano P, Surges R, Thomas GN, Visscher F, Whelan CD, Zara F, Heinzen EL, Marson A, **Becker F**, Stroink H, Zimprich F, **Gasser T**, Gibbs R, **Heutink P**, Martinez M, Morris HR, Sharma M, Ryten M, (...), Corvin A, Neale BM, Brainstorm C (2018) Analysis of shared heritability in common disorders of the brain. *Science* 360:eeap8757

- Araque Caballero MA, Suarez-Calvet M, Duering M, Franzmeier N, Benzinger T, Fagan AM, Bateman RJ, Jack CR, Levin J, Dichgans M, **Jucker M**, Karch C, Masters CL, Morris JC, Weiner M, Rossor M, Fox NC, Lee JH, Salloway S, Danek A, Goate A, Yakushev I, Hassenstab J, Schofield PR, Haass C, Ewers M (2018) White matter diffusion alterations precede symptom onset in autosomal dominant Alzheimer's disease. *Brain* 141:3065-80
- Arnold C, Schulte C**, Moscovich M, **Sunkel U, Zaunbrecher L**, Metzger F, **Gasser T**, Eschweiler GW, **Hauser AK, Berg D, Maetzler W** (2018) Cholinergic Pathway SNPs and Postural Control in 477 Older Adults. *Frontiers in Aging Neuroscience* 10:8
- Atasu B, Hanagasi H, Bilgic B, Pak M, Erginel-Unaltuna N, **Hauser AK**, Guven G, **Simon-Sanchez J, Heutink P, Gasser T, Lohmann E** (2018) HPCA Confirmed as a Genetic Cause of DYT2-Like Dystonia Phenotype. *Movement Disorders* 33:1354-58
- Auffenberg E**, Bender F, **Freilinger T** (2018) Hemispheric Continuity Associated with Classic Scintillating Scotoma. *Case Reports in Neurology* 10:83-87
- Balzer-Geldsetzer M, Klotsche J, Dodel R, Riedel O, **Consortium L** (2018) Quality of life in a German cohort of Parkinson's patients assessed with three different measures. *Journal of Neurology* 265:2713-22
- Baradaran-Heravi Y, Dillen L, Nguyen HP, Van Mossevelde S, Baets J, De Jonghe P, Engelborghs S, De Deyn PP, Vandenbulcke M, Vandenberghe R, Van Damme P, Cras P, Salmon E, **Synofzik M, Heutink P, Wilke C, Simon-Sanchez J**, Rojas-Garcia R, Turon-Sans J, Lleo A, Illan-Gala I, Clarimon J, Borroni B, Padovani A, Pastor P, Diez-Fairen M, Aguilar M, Gelpi E, Sanchez-Valle R, Borrego-Ecija S, Matej R, Parobkova E, Nacmias B, Sorbi S, Bagnoli S, de Mendonca A, Ferreira C, Fraidakis MJ, Diehl-Schmid J, Alexopoulos P, Almeida MR, Santana I, Van Broeckhoven C, van der Zee J, Consortium B, Consortium EE (2018) No supportive evidence for TIA1 gene mutations in a European cohort of ALS-FTD spectrum patients. *Neurobiology of Aging* 69:3
- Behling F, Honegger J, Skardelly M, **Gepfner-Tuma I, Tabatabai G**, Tatagiba M, Schittenhelm J (2018) High Expression of Somatostatin Receptors 2A, 3, and 5 in Corticotroph Pituitary Adenoma. *International Journal of Endocrinology*, 10.1155/2018/1763735
- Berg D**, Adler CH, Bloem BR, Chan P, **Gasser T**, Goetz CG, Halliday G, Lang AE, Lewis S, Li Y, **Liepert-Scarfone I**, Litvan I, Marek K, Maetzler C, Mi TM, Obeso J, Oertel W, Olanow CW, Poewe W, Rios-Romenets S, Schaffer E, Seppi K, Heim B, Slow E, Stern M, Bledsoe IO, Deuschl G, Postuma RB (2018) Movement disorder society criteria for clinically established early Parkinson's disease. *Movement Disorders* 33:1643-46
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Books, book chapters and proceedings

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- Thier P**, **Pomper JK** (2018) Rehabilitation zerebraler Sehstörungen. In: Therapie und Verlauf neurologischer Erkrankungen, 7. Auflage. Diener HC, Gerloff C, Dieterich M (eds). Verlag W. Kohlhammer, pp 298-303
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List of Student Training in 2018

(In alphabetical order)

Lectures

(Summer Term/Winter Term)

Basic Neurobiology

Prof. Dr. Philipp Kahle (coordinator), Dr. Jonas Neher, Jun.-Prof. Dr. Dr. Michela Deleidi, Dr. Henner Koch, Dr. Sven Geisler, Prof. Dr. Ingrid Ehrlich, PD Dr. Daniel Weiß
Curriculum Molecular Medicine

Basispropädeutik Laborforschung und Tiermodelle

Prof. Dr. Uwe Ilg
Faculty of Science (Biology)

Behavior and Cognition: Neuropsychology

Prof. Dr. Dr. Hans-Otto Karnath, PD Dr. Marc Himmelbach
Graduate Training Centre of Neuroscience

Biochemistry II for Medical Students

Prof. Dr. Philipp Kahle
Faculty of Science (Biochemistry)

BioRobotics

Dr. Daniel Häufle
Faculty of Science (Informatics)

Cell Imaging Techniques

Dr. Henner Koch, Dr. Angelos Skodras et al.
Graduate Training Centre of Neuroscience

Computational Motor Control

Dr. Winfried Ilg, Dr. Daniel Häufle
Graduate Training Centre of Neuroscience

Diagnosis of Brain Death

Dr. Sven Poli
Medical Faculty

Frontiers in Neuroscientific Methods

PD Dr. Marc Himmelbach, Prof. Dr. Ziad Hafed
Graduate Training Centre of Neuroscience

Fundamentals of Sensorimotor Integration

Prof. Dr. Uwe Ilg
Graduate Training Centre of Neuroscience

Genetic and Molecular Basis of Neural Diseases I

Prof. Dr. Mathias Jucker, Prof. Dr. Thomas Gasser, Prof. Dr. Ludger Schöls, Prof. Dr. Manuela Neumann
Graduate Training Centre of Neuroscience

Genetic and Molecular Basis of Neural Diseases II

Prof. Dr. Holger Lerche, Prof. Dr. Ulrike Naumann, PD Dr. Felix Bischof, Dr. Henner Koch, PD Dr. Markus Krumbholz
Graduate Training Centre of Neuroscience

Genome-Editing Technologies for Gene and Stem Cell Therapy

Jun. Prof. Dr. Dr. Michela Deleidi
Graduate Training Centre of Neuroscience

Introduction to Clinical Neurology

Dr. Annerose Mengel, Prof. Dr. Tobias Freilinger, PD Dr. Daniel Weiß, PD Dr. Markus Krumbholz
Medical Faculty

Laboratory Techniques

Dr. Daniel Häufle
Medical Faculty (Medical Technology)

Lecture General Neurology

Prof. Dr. Thomas Gasser, Prof. Dr. Holger Lerche, Prof. Dr. Ulf Ziemann, Prof. Dr. Hans-Otto Karnath, Prof. Dr. Alexander Grimm
Medical Faculty

Lecture series for doctoral candidates: Ion Channels and Epilepsy

Prof. Dr. Holger Lerche
Graduate Training Centre of Neuroscience

Lecture Series on the Fundamentals of Neurobiology – Part I + II

Dr. Henner Koch
Graduate Training Centre of Neuroscience

LSC Wissenschaftlichkeit – Säulenpropädeutik Grundlagenwissenschaften

PD Dr. Marc Himmelbach, Prof. Dr. Uwe Ilg
Medical Faculty

Machine Learning*Dr. Tjeerd Dijkstra*

Graduate Training Centre of Neuroscience

Machine Learning II*Prof. Dr. Martin Giese, Dr. Tjeerd Dijkstra*

Graduate Training Centre of Neuroscience

**Massenspektrometrie in Diagnostik und
Therapiemonitoring***Dr. Sascha Dammeier (Institute for Ophthalmic Research),**PD Dr. Christian Johannes Gloeckner*

Medical Faculty (S05VMEDTEC10, winter term only)

Methods in Neuropsychology*PD Dr. Marc Himmelbach, Christoph Sperber,*

Graduate Training Centre of Neuroscience

Molecular and Cellular Basis of Learning and Memory*Prof. Dr. Ingrid Ehrlich (coordinator Andrea Burgalossi)*

Graduate Training Centre of Neuroscience

Motor Systems*Prof. Dr. Hans-Peter Thier*

Graduate Training Centre of Neuroscience

Motor Systems NIPS*Prof. Dr. Cornelius Schwarz*

Graduate Training Centre of Neuroscience

Neurochemistry and Neurotransmitters*Prof. Dr. Philipp Kahle*

Graduate Training Centre of Neuroscience

Neurocritical Care*Dr. Florian Müller-Dahlhaus*

Winter School Critical Care

(Society of Neurocritical Care Medicine)

**Neurogenesis, Excitability, Plasticity and
Neurostimulation***Dr. Christoph Zrenner*

Medical Technology – Human Biology IV

Neurogenetic Research*Prof. Dr. Ludger Schöls*

Medical Faculty

Neurogeriatrics (QB7)*Prof. Dr. Matthias Synofzik*

Medical Faculty

Neuroglia*Dr. Jonas Neher, Dr. Maria Kukley*

Graduate Training Centre of Neuroscience

Neurointensive Care*Prof. Dr. Jennifer Diedler, Dr. Johannes Platz,**Dr. Annerose Mengel*

Medical Faculty

Neurological Emergencies*Dr. Sven Poli*

Medical Faculty

Neurophysiology*Prof. Dr. Cornelius Schwarz, Dr. Christine Pedroarena*

Graduate Training Centre of Neuroscience

**Multimodal Therapy of Parkinson's Disease for
Pharmacists***PD Dr. Rebecca Schüle*

Faculty of Science

Perception, Cognition & Behavior*PD Dr. Marc Himmelbach, Prof. Dr. Ziad Hafed,**Prof. Dr. Andreas Bartels*

Graduate Training Centre of Neuroscience

Primary Headache Syndromes and Neuropathic Pain*Prof. Dr. Tobias Freilinger*

Medical Faculty

QB4 Infections & Immunology*PD Dr. Markus Krumbholz et al.*

Medical Faculty

Ringvorlesung Wissenschaftlichkeit (Neuroscience)*Prof. Dr. Mathias Jucker*

Medical Faculty

Ultraschall in der Neurologie*Prof. Dr. Alexander Grimm*

Medical Faculty

Seminars and Courses

(Summer Term/Winter Term)

Addressing Current Questions in Research on Sensorimotor Coordination

Prof. Dr. Hans-Peter Thier
Medical Faculty

Am Rande des Sprachverarbeitungsnetzwerks - emotions and non-literal meanings

Prof. Dr. Ingo Hertrich
General Linguistics (Philosophical Faculty) and
Cognitive Science (Faculty of Science)

Animal Physiology Practical for Students of Bioinformatics (BSc)

Prof. Dr. Uwe Ilg
Faculty of Science (Biology)

Basics in Gene Therapy

Prof. Dr. Ulrike Naumann
Medical Faculty

Bedside Teaching: Neurological Examination for Advanced Students

*Prof. Dr. Ludger Schöls, PD Dr. Rebecca Schüle,
Prof. Dr. Matthis Synofzik*
Medical Faculty

Bedside Training: Neurological Diagnostics

*Prof. Dr. Yvonne Weber, Gabriela Zaiser, Nathalie Vetter,
Yvonne Schütze, Prof. Dr. Alexander Grimm,
Dr. Benjamin Röben, Dr. Tobias Lindig*
Medical Faculty

Bedside Training: Neurology and Epileptology

*Prof. Dr. Yvonne Weber, Dr. Sabine Rona,
Prof. Dr. Holger Lerche, Dr. Stephan Lauxmann,
Monika Fudali, Dr. Josua Kegele*
Medical Faculty

Beyond Broca and Wernicke – Update of the Language Network

Prof. Dr. Ingo Hertrich
General Linguistics (Philosophical Faculty) and Cognitive
Science (Faculty of Science)

BioRobotics

Dr. Daniel Häufle
Faculty of Science (Informatics)

Block Practical Electrophysiology

Prof. Dr. Cornelius Schwarz
Graduate Training Centre of Neuroscience

Chronic Pain Syndromes – Bedside Teaching (QB14)

Prof. Dr. Tobias Freilinger, PD Dr. Markus Krumbholz et al.
Medical Faculty

Clinic, diagnosis and therapy of inflammatory diseases of the nervous system

PD Dr. Felix Bischof
Medical Faculty

Cognitive Disorder

PD Dr. Inga Liepelt-Scarfone
Department of Psychology (Faculty of Science)

Current Problems in Neuropsychology

Prof. Dr. Dr. Hans-Otto Karnath
Medical Faculty

Diagnosis and Intervention of Activity of Daily Living Function

PD Dr. Inga Liepelt-Scarfone
Department of Psychology (Faculty of Science)

Geriatric-neurological-psychiatric Case Conference

*Prof. Dr. Gerhard W. Eschweiler (UKT),
Prof. Dr. Matthis Synofzik, PD Dr. Daniel Weiß,
Dr. Günther Schnauder (UKT)*
Medical Faculty

Hands-on rare neurological diseases: Hospitation in ZSE clinics

Prof. Dr. Ludger Schöls
Medical Faculty

Hertie Lunch Seminar

Prof. Dr. Uwe Ilg
Medical Faculty

i-KLiC

Prof. Bornemann, PD Dr. Markus Krumbholz et al.
Medical Faculty

**INNOVATE: Interdisciplinary Neuro-Oncology
from Molecular Mechanisms to Patient Stratification
and Therapy**

Prof. Dr. Dr. Ghazaleh Tabatabai

Medical Faculty, Graduate Training Centre of Neuroscience

Introduction to Transcranial Brain Stimulation

Dr. Til Ole Bergmann

Medical Faculty

Journal Club

Dr. Dr. Saskia Biskup

Graduate School of Cellular and Molecular Neuroscience

Journal Club Computational Motor Control

Dr. Daniel Häufle

Graduate Training Centre of Neuroscience

Journal Club IZKF Promotionskolleg

Prof. Dr. Ulrike Naumann

Medical Faculty Neuroscience

**LSC Wissenschaftlichkeit – Projekt “Funktion des
ventralen präfrontalen Kortex in der Bewertung
der Funktionalität von Werkzeugen”**

PD Dr. Marc Himmelbach

Medical Faculty

**LSC Wissenschaftlichkeit – Projekt “Kongruenz
funktioneller Netzwerke in resting-state und
task-basierter funktioneller MRT”**

PD Dr. Marc Himmelbach

Medical Faculty

**LSC Wissenschaftlichkeit - Projekt “Kongruenz
motorischer funktioneller Netzwerke in resting-state
und task-basierter funktioneller MRT”**

PD Dr. Marc Himmelbach

Medical Faculty

**LSC Wissenschaftlichkeit – Projekt “Kongruenz
visueller funktioneller Netzwerke in resting-state
und task-basierter funktioneller MRT”**

PD Dr. Marc Himmelbach

Medical Faculty

Machine Learning II (exercises)

Prof. Dr. Martin Giese, Dr. Tjeerd Dijkstra

Graduate Training Centre of Neuroscience

**Methodological Frontiers in the Cognitive
Neurosciences**

PD Dr. Marc Himmelbach et al.

Graduate Training Centre of Neuroscience

Molecular Neurooncology

Prof. Dr. Ulrike Naumann

Medical Faculty

Neurobiological Monday Seminar

Prof. Dr. Uwe Ilg

Medical Faculty

Neurocolloquium

Prof. Dr. Hans-Peter Thier

Graduate Training Centre of Neuroscience /

Medical Faculty

Neurohistology and -morphology

Block course of the Department of Cellular Neuology

Prof. Dr. Mathias Jucker

Graduate Training Centre of Neuroscience

**Neurological Differential Diagnosis and
Interactive Clinical Case Discussions**

Prof. Dr. Tobias Freilinger

Medical Faculty

Neurological Examination Course

Prof. Dr. Thomas Gasser, Prof. Dr. Holger Lerche,

Prof. Dr. Ulf Ziemann and staff

Medical Faculty

Neurological Palliative Care (QB13)

Dr. Vanessa Heinrich, Dr. Markus Kowarik,

PD Dr. Markus Krumbholz, Dr. Annerose Mengel et al.

Medical Faculty

Seminars and Courses

(Summer Term/Winter Term)

Neurological Seminar

*Prof. Dr. Ludger Schöls, PD Dr. Daniel Weiß,
PD Dr. Rebecca Schüle, Prof. Dr. Matthias Synofzik,
PD Dr. Niels Focke, Prof. Dr. Tobias Freilinger,
Dr. Florian Müller-Dahlhaus, PD Dr. Markus Krumbholz,
Dr. Sven Poli, Prof. Dr. Dr. Ghazaleh Tabatabai,
Dr. Kathrin Brockmann, Dr. Annerose Mengel*
Medical Faculty

Neuropathological Case Meeting

Prof. Dr. Manuela Neumann (Dept. of Neuropathology, UKT)
Medical Faculty

Neurophysiology Seminars

and De-Briefing of Practical Course

*Dr. Ulrike Hedrich, Dr. Henner Koch
(coordinator: Prof. Dr. Olga Garaschuk)*
Medical Faculty

Neuropsychological Disorders of Dementia I

PD Dr. Inga Liepelt-Scarfone
Department of Psychology (Faculty of Science)

Neuropsychologie der Demenz II

PD Dr. Inga Liepelt-Scarfone
Department of Psychology (Faculty of Science)

Oncolytic Viruses as Cancer Therapeutic Drugs

Prof. Dr. Ulrike Naumann
Medical Faculty

OSCE

PD Dr. Markus Krumbholz et al.
Medical Faculty

Practical Course of Optical Imaging

Dr. Angelos Skodras
Medical Faculty Neurophysiology

Practical Neurobiology

Prof. Dr. Ziad Hafed
Faculty of Science (Biology)

Retreat IZKF Promotionskolleg

Prof. Dr. Ulrike Naumann
Medical Faculty Neuroscience

Scientific Colloquium Neurology ("Wednesday Colloquium")

Prof. Dr. Matthias Synofzik
Medical Faculty

Sprache und Automatisierung - the Linguistic Cerebellum

Prof. Dr. Ingo Hertrich
General Linguistics (Philosophical Faculty) and
Cognitive Science (Faculty of Science)

Technical Didactics: Neuroscience in the Classroom

Prof. Dr. Uwe Ilg
Faculty of Science (Biology)

The Neurobiology of the Cerebellum

Prof. Dr. Hans-Peter Thier
Medical Faculty

Therapy Seminar of the Neurological Clinic

*Prof. Dr. Holger Lerche, Prof. Dr. Ulf Ziemann,
Prof. Dr. Thomas Gasser, PD Dr. Rebecca Schüle,
Prof. Dr. Matthias Synofzik, Prof. Dr. Hans-Peter Thier,
Prof. Dr. Dr. Ghazaleh Tabatabai, Dr. Kathrin Brockmann*
Medical Faculty

TüRex project: Motor Learning — a pilot study

Prof. Dr. Uwe Ilg
Medical Faculty

TüRex project: Precision and reaction time of saccadic eye movements

Prof. Dr. Uwe Ilg
Medical Faculty



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