

Annual Report 2023

APPENDIX





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UNIVERSITY HOSPITAL OF NEUROLOGY	
DEPARTMENT OF NEUROLOGY WITH NEUROVASCULAR MEDICINE	
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DEPARTMENT OF NEUROLOGY AND INTERDISCIPLINARY NEURO-ONCOLOGY	
DEPARTMENT OF NEURAL DYNAMICS AND MAGNETOENCEPHALOGRAPHY	
DEPARTMENT OF CELLULAR NEUROLOGY	
INDEPENDENT RESEARCH GROUPS HIH MANAGEMENT	
PUBLICATIONS AND STUDENT TRAINING IN 2023	

University Hospital of Neurology

Clinical Staff

HEAD OF NURSING SERVICES

Jürgen Weber
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(Division Manager, Ward 42/43/45)

Chiara Kanz
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Ward 42/43/45)

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Ward 42/43/45)

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(Deputy Ward Manager, Ward 44)

Marc-Sebastian Haug
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WARD 42/43/45

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Meike Besser
Önder Bilen
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Emilie Bublies
Mark Canoy
Nina Cutic Bozic
Gerelyn Dadivas
Olga Degraf
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Isaac Emwinghare
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Ebrar Döger
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Marjorie Fernandez
Alina Florenta

Daniel Fuente Friend
 Ana Paula Gayarre
 Salvatrice Gozza
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 Marc-Sebastian Haug (sBL2)
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 Sigrid Herter
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 Lothar Kunz
 Laura Lehrmann
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 Elke Stransky (CSF Chemistry)
 Kathrin Vohrer (EEG, EP)
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 Jutta Eymann
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 Vanessa Kreiser
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 Isolde Marterer
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 Susanne Stimmler

MEDICAL DOCUMENTATION

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Department of Neurology with Neurovascular Medicine



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Ulf Ziemann

GROUP LEADERS/ATTENDING PHYSICIANS

PD Dr. Katharina Feil, MHBA
PD Dr. Antje Giede-Jeppe (since 02/2023)
Prof. Dr. Simon Greulich (Cardiologist)
PD Dr. Markus Kowarik
PD Dr. Annerose Mengel
Prof. Dr. Ulrike Naumann
Prof. Dr. Sven Poli, MSc
Dr. Jörn Pomper

SCIENTISTS/RESIDENTS

Dr. Adedolapo Kamaldeen Adeyemi
Dr. Yang Bai (50%)
Dr. David Baur
Prof. Dr. Paolo Belardinelli (5%)
Prof. Dr. Til Ole Bergmann (5%)
Dr. Corinna Blum
Elena Buß (since 08/2023)
Dr. Pedro Caldana Gordon
Dr. Jutta Dünschede

Redina Ferizi (since 10/2023)
Stefan Förster
Dr. Lena Geiger-Primo
Yesim Gökçe (since 06/2023)
Alexandra Gomez Exposito
Dr. Dania Humaidan
Dr. Julia Hummel (since 02/2023)
Dr. Andreas Jooß
Dr. Roswitha Kemmner (until 03/2023)
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Dr. Anne Lieb
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Dr. Olivier Roy
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Dr. Johannes Tünnerhoff
Dr. Jiahua Xu (since 03/2022)
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TECHNICAL STAFF/ADMINISTRATION

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 Pia Kalmbach, study assistant
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 Natalie Rumpel, study coordinator
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 Jan Oliver Schmidt, study assistant
 Britta Stammler, neuropsychologist (since 10/2023)
 Elke Stransky, technician
 Julia Zeller, study coordinator

MASTER STUDENTS

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 Catrina Thönnies (Supervisor PD Dr. Mengel)
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 Lara Woitschach (Supervisor PD Dr. Kowarik)
 Xueyu Yang (Supervisor Prof. Dr. Poli)

Clinical Studies

STROKE STUDIES

ANNEXA-i: A Phase 4 randomizes clinical trial of Andexanet Alfa (Andexanet Alfa for Injection) in acute intracranial hemorrhage in patients receiving an oral Factor XA Inhibitor
Investigator: Prof. Dr. Sven Poli

ASTRO-DE: Andexanet alfa: non- interventional study in Stroke units in Germany (DE)
Investigator: Prof. Dr. Sven Poli

APICES: Automatic PrediCtion of Edema after Stroke (APICES) – Computergestützte automatische Prognose der Entwicklung eines malignen Hirnödems nach Mediainfarkt
Investigator: Prof. Dr. Sven Poli

ATTICUS: Apixaban for treatment of embolic stroke of undetermined source
Investigator: Prof. Dr. Sven Poli

AXIOMATIC-SSP: A Global, Phase 2, Randomized, Double-Blind, Placebo-Controlled, Dose-Ranging Study of BMS-986177, an Oral Factor XIa Inhibitor, for the Prevention of New Ischemic Stroke or New Covert Brain Infarction in Patients Receiving Aspirin and Clopidogrel Following Acute Ischemic Stroke or Transient Ischemic Attack (TIA)
Investigator: Prof. Dr. Sven Poli

Cerebral venous thrombosis (CVT) after COVID-19 vaccination international registry
Investigator: Prof. Dr. Sven Poli

Cerebral Venous Thrombosis after COVID-19 – an international multicenter patient registry
Investigator: Prof. Dr. Sven Poli

DOAC-IVT: Intravenous thrombolysis in patients with ischemic stroke taking direct oral anticoagulants – an international registry
Investigator: Prof. Dr. Sven Poli

DOAC-CVT: Direct Oral Anticoagulants for the treatment of Cerebral Venous Thrombosis
Investigator: Prof. Dr. Sven Poli

ELAN: Early versus Late initiation of direct oral Anticoagulants in post-ischemic stroke patients with atrial fibrillation (ELAN): an international, multicenter, randomized-controlled, two-arm, assessor-blinded trial
Investigator: Prof. Dr. Sven Poli

ENRICH-AF: Edoxaban for intracranial hemorrhage survivors with atrial fibrillation
Investigator: Prof. Dr. Sven Poli

PoliESCAPE-MeVO: A multicenter, Prospective, randomized, parallel group, open-label design to determine the efficacy and safety of Endovascular Thrombectomy for ischemic stroke patients with symptomatic acute medium vessel intracranial occlusions
Investigator: Prof. Dr. Sven Poli

ESCAPE-NEXT: A multicenter, randomized, double- blinded, placebo- controlled, parallel group, single- dose design to determine the efficacy and safety of nerinetide in participants with acute ischemic stroke undergoing endovascular thrombectomy excluding thrombolysis
Investigator: Prof. Dr. Sven Poli

FASTEST: rFVIIa for Acute Hemorrhagic Stroke Administered at earliest time trial
Investigator: Prof. Dr. Sven Poli

FIND-AF: Intensive heart rhythm monitoring to decrease ischemic stroke and systemic embolism – the Find- AF 2 study
Investigator: Prof. Dr. Sven Poli

German Stroke Registry
Investigator: Prof. Dr. Sven Poli

HEMALOB: Lobar intra-cerebral hemorrhage: Towards improved etiological diagnosis
Investigator: Prof. Dr. Sven Poli

LIBREXIA: A Phase 3, randomized, double-blind, parallel-group, placebo-controlled study to demonstrate the efficacy and safety of milvexian, an oral factor XIa inhibitor, for stroke prevention after an acute ischemic stroke or high-risk transient ischemic attack
Investigator: Prof. Dr. Sven Poli

ODEA-TIA: Optimal detection of atrial fibrillation in TIA
Investigator: Prof. Dr. Sven Poli

Pacific-Stroke: Phase 2 Program of AntiCoagulation via Inhibition of FXIa by the oral Compound BAY 2433334 – non-cardioembolic STROKE study
Investigator: Prof. Dr. Sven Poli

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: Prof. Dr. Sven Poli

PRESTIGE-AF: PREvention of Stroke in Intracerebral haemorrhage survivors with Atrial Fibrillation
Investigator: Prof. Dr. Sven Poli

PROOF: Penumbral Rescue by Normobaric O₂ Administration in Patients with Ischaemic Stroke and Target Mismatch Profile: A Phase II Proof-of-Concept Trial
Investigator: Prof. Dr. Sven Poli

REVISION: Early Reperfusion therapy with intravenous alteplase for recovery of vision in acute central retinal artery occlusion (REVISION) – A double-blind randomized placebo-controlled phase III proof-of-concept trial
Investigator: Prof. Dr. Sven Poli

RIC-ICH: Register zum Einsatz von Idarucizumab bei Patienten mit intrakranieller Blutung
Investigator: Prof. Dr. Sven Poli

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

NEUROIMMUNOLOGY STUDIES

BN42083 Gavotte (EudraCT-Nr. 2020-000894-26) A phase IIIb multicenter, randomized, double-blind, controlled study to evaluate the efficacy, safety and Pharmacokinetics of a higher dose of Ocrelizumab in adults with primary Progressive multiple sclerosis
Investigator: PD Dr. Markus Kowarik

BN42082 Musette (EudraCT-Nr. 2020-000893-69) A phase IIIb multicenter, randomized, Double-blind, controlled study to evaluate the efficacy, safety and Pharmacokinetics of a higher dose of Ocrelizumab in adults with relapsing Multiple Sclerosis
Investigator: PD Dr. Markus Kowarik

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

COMB157GDE02 Aiolos: Eine nicht-interventionelle Studie zur Evaluation von Injektionstherapien (Ofatumumab, Glatirameracetat und Interferon β 1) bei Patienten mit schubförmig verlaufender Multipler Sklerose
Investigator: PD Dr. Markus Kowarik

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: PD 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

EmBioPro-MS: Explorative study of emerging blood biomarkers in progressive multiple sclerosis
Investigators: Dr. Ahmed Abdelhak, 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: Prof. Dr. Ulf Ziemann

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: Prof. Dr. Ulf Ziemann

Evolution (MS200527_0082):
A Phase III, Multicenter, Randomized, Parallel Group, Double Blind, Double Dummy, Active Controlled Study of Evobrutinib Compared with Teriflunomide, in Participants with Relapsing Multiple Sclerosis to Evaluate Efficacy and Safety.
Investigator: PD Dr. Markus Kowarik

Clinical Studies

NEUROIMMUNOLOGY STUDIES

GN41791 FENtrepid (EudraCT-Nr 2019-003919-53):

A phase-III multicenter, randomized, double-blind, double-dummy, parallel-group study to evaluate the efficacy and safety of Fenebrutinib compared with Crelizumab in adult patients with primary progressive multiple sclerosis
Investigator Prof. Dr. Ulf Ziemann

GN41851 FENhance (EudraCT-Nr 2019-004857-10):

A phase-III multicenter, randomized, double-blind, double-dummy, parallel-group study to evaluate the efficacy and safety of Fenebrutinib compared with Teriflunomide in adult patients with relapsing multiple sclerosis
Investigator Prof. Dr. Ulf Ziemann

ML42393 MoOzaRt: Auswirkungen von Ocrelizumab auf die von Patienten berichtete Fatigue und Lebensqualität bei RMS-Patienten, die zum ersten Mal mit Ocrelizumab behandelt werden (MoOzaRt): eine Beobachtungsstudie
Investigator: PD Dr. Markus Kowarik

MN43964 OLERO (EudraCT-Nr. 2023-505974-14-00): A multicenter, single-arm, open-label, extension, rollover study to evaluate the long-term safety and efficacy of ocrelizumab in patients with multiple sclerosis
Investigator: Prof. Dr. Ulf Ziemann

MS700568_0176 CLIP-5: A non-interventional, multicenter, observational study to evaluate effectiveness and safety of cladribine tablets (CT) in patients continuing treatment with cladribine tablets in year 5
Investigator: PD Dr. Markus Kowarik

Raise / Raise-XT (RA101495-02.301):

A phase-III, multicenter, randomized, double-blind, placebo-controlled study to confirm the safety, tolerability, and efficacy of Zilucoplan in subjects with generalized myasthenia gravis
Investigator: Prof. Dr. Ulf Ziemann

RPC-1063-MS-003 OzEAN: Eine prospektive, multi-zentrische, nicht-interventionelle Studie zur Erfassung der Anwendung, Wirksamkeit und Lebensqualität von Ozanimod (Zeposia®) in der klinischen Routinebehandlung von Pat. mit RRMS über einen Beobachtungszeitraum von 5 Jahren
Investigator: PD Dr. Markus Kowarik

Third-Party Funding

ONGOING GRANTS

Real-time Cognitive Output Modulation through EEG-triggered TMS

Project leader: Dr. Pedro Gordon

Funding Institution: German Research Foundation (DFG)

B-cell repertoire analysis in ozanimod (Zeposia®) treated multiple sclerosis patients – differential effects on B cell subsets through selective S1P receptor modulation

Project leader: PD Dr. Markus Kowarik

Funding Institution: Bristol Myers Squibb

Immunoglobulin analysis under cladribine – year 2

Project leader: PD Dr. Markus Kowarik

Funding Institution: Merck GmbH

B cell repertoire analysis in ponesimod treated multiple sclerosis patients – differential effects on B cell subsets through selective S1P receptor modulation

Project leader: PD Dr. Markus Kowarik

Funding Institution: Janssen

Immunoglobulin (Ig) repertoire analysis in multiple sclerosis patients treated with ocrelizumab (Ocrevus): in depth longitudinal characterization of Ig proteomics

Project leader: PD Dr. Markus Kowarik

Funding Institution: Roche

Immunoglobulin (Ig) repertoire analysis in multiple sclerosis patients treated with ofatumumab: in depth longitudinal characterization of Ig proteomics

Project leader: PD Dr. Markus Kowarik

Funding Institution: Novartis

Tumor specific cerebrospinal fluid (CSF) B cell response in cancer patients with CNS manifestation

Project leader: PD Dr. Markus Kowarik

Funding Institution: German Research Foundation (DFG)

ANNES: AmaNtadine for Neuroenhancement in acute patients study - A prospective pilot proof of concept phase-IIb study in intensive and intermediate care unit patients

Project leaders: PD Dr. Katharina Feil, PD Dr. Annerose Mengel

Funding institution: Medical Faculty University Tübingen, AKF Program

DREAMS: Delir REDuction by Administration of Melatonin in Stroke Patients*Project leader: PD Dr. Annerose Mengel**Funding institution: Medical Faculty University Tübingen, AKF Program Anschubfinanzierung***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)***Intranasal delivery of cellular “Trojan Horse” cells loaded with oncolytic adenovirus to treat invasive recurrent glioblastoma***Project leader: Prof. Dr. Ulrike Naumann**Funding institution: German Cancer Foundation***Einfluss der Glioblastom-induzierten perizytären Expression des EMT-Faktors SLUG auf die Tumor-Neoangiogenese – in vivo Untersuchungen***Project leader: Prof. Dr. Ulrike Naumann**Funding Institution: Medical Faculty, IZKF Promotionskolleg, University Tübingen***Nachweis des immunogenen Zelltods bei onkolytischer Virotherapie des Glioblastoms***Project leader: Prof. Dr. Ulrike Naumann**Funding Institution: Else Übelmesser-Stiftung***Automatic PredICtion of Edema after Stroke (APICES)***Project leader: Prof. Dr. Sven Poli**Funding institution: Innovationsausschuss beim Gemeinsamen Bundesausschuss (GBA)***Penumbra Rescue by normobaric O₂ Administration in patients with ischemic Stroke and target mismatch profile:***A phase II Proof-of-Concept Trial**Project leader: Prof. Dr. Sven Poli**Funding institution: European Commission***REVISION:** Early Reperfusion therapy with intravenous alteplase for recovery of vision in acute central retinal artery occlusion (REVISION) – A double-blind randomized placebo-controlled phase-III proof-of-concept trial*Project leader: Prof. Dr. Sven Poli**Funding Institution: Federal Ministry of Education and Research (BMBF)***Brain-oscillation-synchronized stimulation to enhance motor recovery in early subacute stroke:** double-blind three-arm parallel-group exploratory RCT (BOSS-STROKE)*Project leader: Prof. Dr. Ulf Ziemann**Funding Institution: Federal Ministry of Education and Research (BMBF)***Personalisierte neurorehabilitative Präzisionsmedizin: Von Daten zu Therapien***Project leader: Prof. Dr. Ulf Ziemann**Funding Institution: Ministry of Research and Arts (MWK), Federal State of Baden-Württemberg***Apixaban for treatment of embolic stroke of undetermined source (ATTICUS randomized trial)***Project leaders: Prof. Dr. Ulf Ziemann, Prof. Dr. Sven Poli, Prof. Dr. Tobias Geisler (Cardiology)**Funding institution: Bristol-Myers Squibbs***Reconnecting the ageing brain to enhance plasticity and motor learning***Project leaders: Prof. Dr. John Semmler (Adelaide University),**Co-PI: Prof. Dr. Ulf Ziemann**Funding institution: Australian Research Council (ARC)***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 (Università degli studi Gabriele d'Annunzio di Chieti-Pescara, Italy)**Funding Institution: European Research Council (ERC) Synergy Program***REHALITY: Closed-loop Softwaresystem zur Neuro-rehabilitation nach Schlaganfall durch personalisiertes EEG/EMG-Hirnzustand-gesteuertes Virtual Reality-Therapie-paradigma***Project leader: Prof. Dr. Ulf Ziemann**Funding Institution: Federal Ministry of Education and Research (BMBF)***SMARTCOIL: Personalisierte therapeutische Hirnstimulation***Project leader: Prof. Dr. Ulf Ziemann**Funding Institution: Federal Ministry of Economy BW***Transcranial brain stimulation to study memory processing and synaptic plasticity during sleep***Project leaders: Prof. Dr. Ulf Ziemann, Prof. Til Ole Bergmann**Funding Institution: German Research Foundation (DFG)*

Third-Party Funding

NEW GRANTS

**Cognitive recovery of post-stroke delirium (RECOVER):
a longitudinal proof-of-concept study in stroke patients
with/without delirium**

Project leaders: PD Dr. Annerose Mengel, Lena Geiger-Primo

Funding institution: Medical Faculty Tübingen, AKF Program

ROBMIT: ROBotic MIrrrored Therapy after stroke

*Project leaders: Prof. Dr. Lorenzo Masia, Prof. Dr. Daniel Häufle,
Prof. Ulf Ziemann*

Funding institution: Else-Kröner-Fresenius Foundation

Awards

Prof. Dr. Sven Poli

Paul-Dudley White International Scholar Award, American Heart Association

Prof. Dr. Sven Poli

Focus Top Mediziner, Ärzteliste 2023, Schwindel

Prof. Dr. Ulf Ziemann

Focus Top Mediziner, Ärzteliste 2023, Multiple Sklerose

Prof. Dr. Ulf Ziemann

Clarivate Web of Science™: “Highly Cited Researcher 2023”

Prof. Dr. Ulf Ziemann

Corresponding Member of the Cuban Academy of Science

Prof. Dr. Ulf Ziemann

Honorary Professor of the University of Nanchang, China

Guest Researchers

Dr. Olli-Pekka Kahilakoski

Aalto University, Helsinki, Finland

Host: Prof. Dr. Ulf Ziemann

Dr. Victor Souza

Aalto University, Helsinki, Finland

Host: Prof. Dr. Ulf Ziemann

Medical Theses

(Completed in 2023)

Dominik Baku

Verbesserung der Patientenselektion für die mechanische Rekanalisation bei akuten Schlaganfall

Supervisor: PD Dr. Annerose Mengel

Sara Dörre

EEG-triggered TMS of dorsomedial prefrontal cortex selectively modulates working memory performance depending on the phase of endogenous theta oscillation

Supervisor: Prof. Dr. Ziemann

Annika Spielmann

Elektrophysiologische Diagnostik von Polyneuropathien mittels somatosensibel evozierter Potentiale und der sympathischen Hautantwort

Supervisor: Prof. Dr. Ziemann

Jan Zurloh

Validierung der Intensive Care Delirium Checkliste (ICDSC) zur Prädiktion eines Post Stroke Delirs

Supervisor: PD Dr. Annerose Mengel

Master Theses

(Completed in 2023)

Sarah Harders

The Intricate Relationship of the Oscillatory Phase and Cortical Excitability in the Lower Limbs

Supervisor: Prof. Dr. Ziemann

Sandra Müssig

Untersuchungen zum Metabolismus Glioblastom-assoziiierter Perizyten

Supervisor: Prof. Dr. Naumann

Katja Regel

TGF- β modulates pericytes covering glioma vessels which is associated with the induction of SLUG expression

Supervisor: Prof. Dr. Naumann

Bachelor Theses

(Completed in 2023)

Le My Trinh

Using Machine Learning to Predict Excitability in the Motor Cortex with High-Density Electroencephalography Data

Supervisor: Prof. Dr. Ziemann

Giulia Wellhäuser

Evaluation of XVir-N-31 oncolytic virus replication in orthotopic infiltrating glioblastoma at late time points after treatment

Supervisor: Prof. Dr. Naumann

Department of Neuro- degenerative Diseases



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(jointly with Research Division Synofzik)
Prof. Dr. Daniel Weiß

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 Beatrix Mahnke
 Rahel Menges
 Madeline Nagel
 Marvin Noss
 Anubhav Rakshit
 Jana Staib
 Jasmin Treu
 Matthias Viteritti

Clinical Studies

Vico Therapeutics - VO659-CT01 - A phase 1/2a, open-label trial to investigate the safety, tolerability, pharmacokinetics and pharmacodynamics of multiple ascending doses of intrathecally administered VO659 in participants with spinocerebellar ataxia types 1, 3 and Huntington's disease
Investigator: Prof. Dr. Ludger Schöls

PTC Therapeutics - MOVE-FA: A phase 3 Study to Assess the Efficacy and Safety of Vatiquinone for the Treatment of Participants With Friedreich Ataxia
Investigator: Prof. Dr. Ludger Schöls

PTC Therapeutics: Long-Term Open-Label Study to Assess the Safety and Efficacy of Vatiquinone in Patients With Friedreich Ataxia
Investigator: Prof. Dr. Ludger Schöls

Vigil Neuroscience - IGNITE - A Phase 2 Safety, Tolerability, and Proof-of-Concept Study of VGL101 in Patients with Adult-Onset Leukoencephalopathy with Axonal Spheroids and Pigmented Glia (ALSP).
Investigator: Prof. Dr. Ludger Schöls

Vigil Neuroscience - ILLUMINATE - A Natural History Study of Patients With Adult-Onset Leukoencephalopathy With Axonal Spheroids and Pigmented Glia (ALSP)
Investigator: Prof. Dr. Ludger Schöls

STEALTH BioTherapeutics - NuPower - A Phase 3 Randomized, Double-Blind, Parallel-Group, Placebo-Controlled Trial to Evaluate the Efficacy and Safety of Daily Subcutaneous Injections of Elamipretide in Subjects with Primary Mitochondrial Disease Resulting from Pathogenic Nuclear DNA Mutation
Investigator: Prof. Dr. Ludger Schöls

2024 ST Direct Tübingen - Amendment zur Studie PPMI 2.0
Investigators: Prof. Dr. Kathrin Brockmann

Biogen 283PD302 - LIGHTHOUSE - A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Determine the Efficacy and Safety of BIIB122/DNL151 in Participants with Parkinson's Disease and Pathogenic LRRK2 Variants
Investigators: Prof. Dr. Kathrin Brockmann, Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Biogen 283PD201 - LUMA - A Phase 2b, Multicenter, Randomized, Double Blind, Placebo Controlled Study to Determine the Efficacy and Safety of BIIB122 in Participants with Parkinson's Disease

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

ODYSSEY-LZA45541 - Prospective evaluation of potential effects of repeated gadolinium-based contrast agent (GBCA) administrations of the same GBCA on motor and cognitive functions in neurologically normal adults in comparison to a non-GBCA exposed control group - ODYSSEY
Investigators: Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Novartis CNIO752A02101 Amendment 2: A Randomized, Participant, Investigator and Sponsor Blinded, Placebo-Controlled Study to Evaluate the Safety, Tolerability and Pharmacokinetics of Multiple Ascending Doses of Intrathecally Administered NIO752 in Patients With Progressive Supranuclear Palsy
Investigators: Prof. Dr. Kathrin Brockmann, Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

PPMI 2.0 – The Parkinson's Progression Markers Initiative (please see: <http://www.ppmi-info.org/>)
Multicenter longitudinal observational study in PD
Investigators: Prof. 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: Prof. Dr. Kathrin Brockmann

PPMI Genetic Cohort: Multicenter longitudinal observational study in genetic PD
Investigators: Prof. Dr. Kathrin Brockmann

Roche Pasadena Studie BP39529 - Amendment 2+3:
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: PD Dr. Kathrin Brockmann, Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

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

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

DANCER (Degeneration Controls and Relatives): Etablierung eines Rekrutierungspools von Studieninteressenten, Angehörigen und einer Vergleichsgruppe für Studien des DZNE

*Investigators: Prof. Dr. Kathrin Brockmann,
Prof. Dr. Christoph Laske, Prof. Dr. Ludger Schöls,
Prof. Dr. Matthias Synofzik, Prof. Dr. Thomas Gasser*

DESCRIBE-FTD: DZNE – Klinische Registerstudie zu Frontotemporaler Demenz (FTD)

*Investigators: Prof. Dr. Matthias Synofzik,
Prof. Dr. Thomas Gasser*

DESCRIBE PD: multicenter study of the DZNE to detect biomarkers and protective factors associated with clinical trajectories and molecular pathways in PD.

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

DESCRIBE_PSP: DZNE – Klinische Registerstudie Neurodegenerativer Erkrankungen für Patienten mit Progressiver Supranukleärer Parese (PSP)

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

DIFUTURE LOC- Early: DIFUTURE Longitudinale Kohortenstudie zur Beurteilung der Progression der Parkinson Erkrankung im frühen Krankheitsstadium (LOC-EARLY)

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

DIFuture LOC-DBS: : DIFUTURE Longitudinale Kohortenstudie zur Beurteilung des Therapieerfolges im späten Krankheitsstadium der Parkinson Erkrankung (LOC-DBS)

*Investigators: Prof. Dr. Daniel Weiß,
Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser*

PRICOG: Progression in cognition and associated activities of daily living impairment in Parkinson's disease

Investigators: Prof. Dr. Inga Liepelt-Scarfone

Novartis CNIO752A02101: A Randomized, Participant, Investigator and Sponsor Blinded, Placebo-Controlled Study to Evaluate the Safety, Tolerability and Pharmacokinetics of Multiple Ascending Doses of Intrathecally Administered NIO752 in Patients With Progressive Supranuclear Palsy

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

ROCK-PD Study: Safety, Tolerability and Symptomatic Efficacy of the ROCK-Inhibitor Fasudil in Patients with Parkinson's Disease

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

Prevent Dementia in GBA-associated PD:

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

EarlyStim – 10 year 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. Daniel Weiß

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

*Investigator: Prof. Dr. Daniel Weiß,
Prof. Dr. Alireza Gharabaahi*

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

*Investigator: Prof. Dr. Daniel Weiß,
Prof. Dr. Alireza Gharabaahi*

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

Investigator: Prof. Dr. Daniel Weiß

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

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

Sensing of oscillatory subthalamic nucleus field potentials for freezing of gait in Parkinson's disease (SenseFOG)

*Investigators: Prof. Dr. Daniel Weiß,
Prof. Dr. Alireza Gharabaghi*

Clinical Studies

The efficacy of the combination of opicapone (+levodopa) + DBS on freezing of gait in Parkinson's disease (OpiDBS)

Investigator: Prof. Dr. Daniel Weiß

StimTox-CD: Eine randomisierte Vergleichsstudie von Tiefer Hirnstimulation des Globus pallidus internus versus Botulinumtoxingabe bei cervikaler Dystonie

Investigators: Prof. Dr. Daniel Weiß,

Prof. Dr. Alireza Gharabaghi, Dr. Ebba Lohmann

Long-Term Observational Study on Effectiveness and Safety of Lecigon in Patients With Advanced Parkinson's Disease (ELEGANCE) (Stadapharm, Britannia)

Investigator: Prof. Dr. Daniel Weiß

Desensitize PD: Intestinal levodopa + entacapone therapy (Lecigon®) to support dopaminergic desensitization in Parkinson's disease

Investigator: Prof. Dr. Daniel Weiß

A Multi-center, Non-interventional Study Evaluating Variability, Reliability, and Compliance for Parkinson's Disease Diary (BlueRock Therapeutics LPH)

Investigators: Dr. Idil Cebi, Prof. Dr. Daniel Weiß

Aspen – OLS: A Phase 3, Open-Label, Multi-Center Trial to Evaluate the Long-Term Safety and Efficacy of Repeat Treatments of Daxibotulinumtoxin A for Injection in Adults with Isolated Cervical Dystonia

Investigators: Dr. Ebba Lohmann

Natural history of Hereditary Spastic Paraplegia Type SPG4 (HSP registry)

Investigators: Prof. Dr. Rebecca Schüle, Dr. Christoph Kessler, Dr. Tim Rattay, Dr. Melanie Wayand, Prof. Dr. Ludger Schöls

Phenotypes, Biomarkers and Pathophysiology in Hereditary Spastic Paraplegias and Related Disorders (HSP-PBP)

Investigators: Prof. Dr. Rebecca Schüle, Dr. Christoph Kessler, Dr. Tim Rattay, Dr. Melanie Wayand, Prof. Dr. Ludger Schöls

GaitLab – Mobile Bewegungsanalyse unter supervidierten und nicht-supervidierten Bedingungen im häuslichen Umfeld bei Patienten mit Bewegungsstörungen

Investigators: Prof. Dr. Rebecca Schüle, Dr. Christoph Kessler, Dr. Melanie Wayand

Patient-centered outcome parameters in HSP: development and validation of patient- and caregiver reported outcomes (HSP-PCOM)

Investigators: Prof. Dr. Rebecca Schüle, Dr. Christoph Kessler, Dr. Melanie Wayand

Neuropsychological deficits in genetically defined subtypes of Hereditary Spastic Paraplegia (HSP)

Investigators: PD Dr. Rebecca Schüle,

Prof. Dr. Inga Liepelt-Scarfone

Biomarkers of axonal degeneration in Hereditary Spastic Paraplegia and related diseases

Investigators: Prof. Dr. Rebecca Schüle, Dr. Christoph Kessler

PROSPAX: an integrated multimodal progression chart in spastic ataxias

Investigators: Prof. Dr. Matthias Synofzik, Prof. Dr. Rebecca Schüle, Dr. Dr. Andreas Träschütz, Dr. Christoph Kessler

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

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

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

Investigators: Prof. Dr. Ludger Schöls, Dr. Holger Hengel, 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)

Autosomal-recessive and Early onset ataxia: Genetic basis and natural history (ARCA/EOA)

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

GENFI- Genetic Frontotemporal Dementia Initiative

Investigators: Prof. Dr. Matthias Synofzik

Solving the unsolved Rare Diseases (Solve RD)

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

Studying the prodromal and early phase of SPG4 (preSPG4)

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

Charakterisierung unwillkürlicher spontaner fokaler Muskelaktivität mittels bewegungssensitiver Magnetresonanztomographie und automatisierter Datennachverarbeitung

Investigators: Prof. Dr. Alexander Grimm, Prof. Dr. Fritz Schick, Prof. Dr. Ludger Schöls

A Pharmacokinetics and Safety Study of BIIB132 in Adults With Spinocerebellar Ataxia 3 (Phase 1 trial)

Sponsor: Biogen; Site investigator: Prof. Dr. Matthias Synofzik

Study of WVE-004 in Patients With C9orf72-associated Amyotrophic Lateral Sclerosis (ALS) or Frontotemporal Dementia (FTD) (FOCUS-C9) (Phase 1b/2a trial)

Sponsor: WAVE; Site investigator: Prof. Dr. Matthias Synofzik

1 Mutation 1 Medicine: An individualized n-of-1 ASO treatment of a patient with Ataxia teleangiectasia (experimenteller individueller Heilversuch)

Physicians: Prof. Dr. Matthias Synofzik, Dr. Andrea Bevo, Dr. Holm Graessner, Prof. Dr. Rebecca Schüle

Third-Party Funding

ONGOING GRANTS

PPMI – Amendment: Genetic PPMI

Project leader: Prof. Dr. Kathrin Brockmann

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

PPMI Amendment – Cognitive categorization assessment

Project leader: PD Prof. 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: Prof. Dr. Kathrin Brockmann

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

P-PPMI – Prodromal subjects

Project leader: Prof. Dr. Kathrin Brockmann

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

MJFF - PPMI 2.0

Project leader: Prof. Dr. Kathrin Brockmann

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

Research Cooperation within the joint project "Predictive diagnostics of immune-associated diseases for personalized medicine"

Project leader: Prof. Dr. Kathrin Brockmann

Funding Institution: NMI - Naturwissenschaftliches und Medizinisches Institut an der Universität Tübingen

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

Project leaders: Prof. Dr. Inga Liepelt-Scarfone,

Prof. Dr. Daniela Berg, Prof. Dr. Walter Maetzler

Funding institution: Janssen Pharmaceutica NV

Roche Pasadena Studie BP39529 - Amendment 2:

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: Prof. Dr. Kathrin Brockmann,

Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Funding institution: F. Hoffmann-La Roche AG

PPMI - Amendment 14 - Digital Biomarker Data Collection

Project leader: Prof. Dr. Kathrin Brockmann

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

Novartis CNIO752A02101: A Randomized, Participant, Investigator and Sponsor Blinded, Placebo-Controlled Study to Evaluate the Safety, Tolerability and Pharmacokinetics of Multiple Ascending Doses of Intrathecally Administered NIO752 in Patients With Progressive Supranuclear Palsy
Project leaders: Prof. Dr. Kathrin Brockmann, Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser
Funding institution: Novartis Pharma GmbH

Roche Pasadena Study BP39529 - Amendment 3:

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

Funding institution: F. Hoffmann-La Roche AG

Third-Party Funding

ONGOING GRANTS

ROCK-PD Study: Safety, Tolerability and Symptomatic Efficacy of the ROCK-Inhibitor Fasudil in Patients with Parkinson's Disease

Project leaders: Prof. Dr. Kathrin Brockmann,
Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser
Funding institution: Technical University of Munich

Prevent Dementia in GBA-associated PD

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

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

Project leader: Prof. Dr. Thomas Gasser
Funding institution: German Research Foundation (DFG)

Molekulare Stratifizierung neurodegenerativer Erkrankungen für Früherkennung und personalisierte Therapie

Projekt leader: Prof. Dr. Thomas Gasser
Funding institution: Baden-Württemberg Ministry of Science, Research and the Arts (MWK)

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)

Virtual Institute: RNA dysmetabolism in ALS and FTD

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

DZNE Crosscutting Project: Posttranslational Modifications of TDP-43

Project leader: Prof. Dr. Philipp Kahle
Funding institution: NOMIS Foundation

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

Sensing of oscillatory subthalamic nucleus field potentials for freezing of gait in Parkinson's disease (SenseFOG)

Investigators: Prof. Dr. Daniel Weiß,
Prof. Dr. Alireza Gharabaghi
Funding institution: Medtronic

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

A randomized controlled clinical trial
Project leaders: Prof. 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: Prof. Dr. Daniel Weiß
Funding institution: Abbott

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

Investigator: Prof. Dr. Daniel Weiß
Funding institution: Boston Scientific

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

Investigator: Prof. Dr. Daniel Weiß
Funding institution: Michael J. Fox Foundation

A Multi-center, Non-interventional Study Evaluating Variability, Reliability, and Compliance for Parkinson's Disease Diary

Investigators: Dr. Idil Cebi, Prof. Dr. Daniel Weiß
Funding institution: BlueRock Therapeutics LPH

Long-Term Observational Study on Effectiveness and Safety of Lecigon in Patients With Advanced Parkinson's Disease (ELEGANCE)

Investigator: Prof. Dr. Daniel Weiß
Funding institution: Stadapharm, Britannia

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

Project leader: Prof. Dr. Ludger Schöls
Funding institution: EU / BMBF

Genetic basis of hereditary spastic paraplegias

Project leaders: Prof. Dr. Ludger Schöls, PD Dr. Rebecca Schüle
Funding institution: HSP Support Group; Germany e.V.

Studying the prodromal and early phase of SPG4 (preSPG4)*Project leaders: Dr. Tim Ratty, PD Dr. Rebecca Schüle,**Prof. Dr. Ludger Schöls*

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

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

Funding institution: HSP Selbsthilfegruppe e.V.

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

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

Funktionelle Validierung genetischer Varianten im Exom-Zeitalter*Project leader: Prof. Dr. Rebecca Schüle*

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

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

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

TreatHSP: Translational Research in Hereditary Spastic Paraplegia*Project leader: Prof. Dr. Rebecca Schüle*

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

Treat-HSP: WP4 iPSC-based neuronal models for biomarker discovery and therapeutic target identification in SPG4 and SPG31*Project leaders: Prof. Dr. Ludger Schöls, Dr. Stefan Hauser*

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

Structural and biochemical analysis of LRRK2 conformational states as foundation for a rational development of allosteric compounds (Grant ID: 8068.04)*Project leader: PD Dr. Christian Johannes Gloeckner*

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

EU Horizon 2020 RIA Research and Innovation action: Solving the Unsolved Rare Diseases (Solve RD)*Co-Project leaders: Prof. Dr. Matthias Synofzik,**Prof. Dr. Rebecca Schüle*

Funding institution: EU

From Pathophysiology to Therapeutic Targets: Disturbed Sphingolipid Metabolism in HSP Caused by GBA2 Mutations*Project leaders: PD Dr. Rebecca Schüle, Ulrike Ulmer*

Funding: Tom Wahlig Foundation

ZSE-DUO*Principle investigator: Prof. Dr. Ludger Schöls*

Funding institution: Innovationsfond

Treat-ION: WP2 Investigating the pathophysiology and treatment options of ataxia-associated CACNA1A disease variants in *Drosophila melanogaster**Project leader: Prof. Dr. Ludger Schöls*

Funding institution: EU/BMBF

PROSPAX: an integrated multimodal progression chart in spastic ataxias (EJP consortium)*Project leaders: Prof. Dr. Matthias Synofzik,**Prof. Dr. Rebecca Schüle*

Funding: European Union EJP RD program/DFG

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 Phase II: 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

Identification of RNAs Disrupting TDP-43 Proteinopathy in ALS and FTD*Project leader: Dr. Jorge Garcia Morato*

Funding institution: Karin Christiane Conradi Stiftungsfonds

ERN-RND registry*Project leader: Prof. Dr. Ludger Schöls*

Funding institution: European Union

LeukoExpert: KI-basierte Diagnoseunterstützung bei Seltenen Erkrankungen am Beispiel der Seltenen Erkrankung Leukodystrophie*Project leader: Prof. Dr. Ludger Schöls*

Funding institution: Federal Ministry of Health (BMG)

Third-Party Funding

NEW GRANTS

The Edmond J. Safra Fellowship in Movement Disorders

Project leaders: Prof. Dr. Thomas Gasser,

Prof. Dr. Kathrin Brockmann

Funding institution: Michael J. Fox Foundation for Parkinson's Research (MJFF-022-021)

Determinants of seeding-activity of alpha-synuclein

Project leaders: Prof. Dr. Thomas Gasser,

PD Dr. Johannes Gloeckner, Prof. Dr. Markus Zweckstetter

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

Common Mitochondrial Deletions as a Peripheral Marker of Parkinson's Disease

Project leader: Dr. Julia Fitzgerald

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

Converging Parkinson's Disease Pathways: Identification of Unique and Novel Gene Dependencies

Project leader: Dr. Julia Fitzgerald

Funding institution: ONO Pharmaceuticals

Miro1 Retention at Depolarized Mitochondria in Parkinson's Disease.

Project leader: Dr Julia Fitzgerald

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

Seedcorn Nottingham-Tübingen

Project leader: Dr Julia Fitzgerald

Funding Institution: University of Tübingen and Nottingham University

Spontane Muskelaktivität in Bewegungssensitiver MRT

Project leaders: Prof. Dr. Ludger Schöls,

Prof. Dr. Alexander Grimm, Prof. Dr. Fritz Schick

Funding institution: German Research Foundation (DFG)

Desensitize PD: Intestinal levodopa + entacapone therapy (Lecigon®) to support dopaminergic desensitization in Parkinson's disease

Investigator: Prof. Dr. Daniel Weiß

Funding institution: Stadapharm

2024 ST Direct Tübingen – Amendment zur Studie PPMI 2.0

Project leader: Prof. Dr. Kathrin Brockmann

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

MJFF Consortium on PRKN and PINK1

Project leader: Prof. Dr. Kathrin Brockmann

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

MJFF LCC Analysis Strategy

Project leader: Prof. Dr. Kathrin Brockmann

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

Biogen 283PD302 - LIGHTHOUSE - A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Determine the Efficacy and Safety of BIIB122/DNL151 in Participants with Parkinson's Disease and Pathogenic LRRK2 Variants

Project leaders: Prof. Dr. Kathrin Brockmann,

Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Funding institution: Biogen Idec Research Limited

Biogen 283PD201 - LUMA - A Phase 2b, Multicenter, Randomized, Double Blind, Placebo Controlled Study to Determine the Efficacy and Safety of BIIB122 in Participants with Parkinson's Disease

Project leaders: Prof. Dr. Kathrin Brockmann,

Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Funding institution: Biogen Idec Research Limited

ODYSSEY-LZA45541 - Prospective evaluation of potential effects of repeated gadolinium-based contrast agent (GBCA) administrations of the same GBCA on motor and cognitive functions in neurologically normal adults in comparison to a non-GBCA exposed control group - ODYSSEY

Project leaders: Prof. Dr. Inga Liepelt-Scarfone,

Prof. Dr. Thomas Gasser

Funding institution: Bayer AG

Novartis CNIO752A02101 Amendment 2: A Randomized, Participant, Investigator and Sponsor Blinded, Placebo-Controlled Study to Evaluate the Safety, Tolerability and Pharmacokinetics of Multiple Ascending Doses of Intrathecally Administered NIO752 in Patients With Progressive Supranuclear Palsy

Project leaders: Prof.D Dr. Kathrin Brockmann,

Prof. Dr. Inga Liepelt-Scarfone, Prof. Dr. Thomas Gasser

Funding institution: Novartis Pharma GmbH

Treat-ION: WP4 Pathophysiology and therapy of SCN8A and CACNA1G associated ataxia

Project leaders: Prof. Dr. Ludger Schöls, Yuanyuan Liu

Funding institution: EU/BMBF

Treat-HSP: Translational Research in Hereditary Spastic Paraplegia WP4: Exploring the pathogenic and therapeutic impact of lipid homeostasis in SPG4 and SPG31 using iPSC-based neural models

Project leaders: Prof. Dr. Ludger Schöls, Dr. Stefan Hauser

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

PhD Theses

(Completed in 2023)

Anna Lechado Terradas

Dissecting PINK1/Parkin Mitophagy Dynamics

Supervisor: Prof. Dr. Philipp Kahle

Mohammad Dehestani

Post-GWAS Analyses of Parkinson's Disease through Polygenic Risk Scoring and Integration with Single-Cell Transcriptomics

Supervisor: Prof. Thomas Gasser

MD Theses

(Completed in 2023)

Jordana Maass

Die Rolle von Varianten in den Genen UQCRC1 und NUS1 bei der Entstehung des Parkinsonsyndroms

Supervisor: Prof. Dr. Thomas Gasser

Nadine Weissert

Hereditäre Leukencephalopathien des Erwachsenenalters – Häufigkeitsverteilung genetischer Subtypen und klinischer Verlauf

Supervisor: Prof. Dr. Ludger Schöls

Nicolas Zang

Upper Limb Freezing bei Patienten mit idiopathischen Parkinsonsyndrom –neurophysiologische kortikale Korrelate der Überwindung von Freezing-Episoden

Supervisor: Prof. Dr. Daniel Weiß

Master Theses

(Completed in 2023)

Merle Bode

Understanding the link between Activities of Daily Living and daily Physical Activity in

Parkinson's disease: An accelerometry based investigation

Supervisors: Prof. Dr. Inga Liepelt-Scarfone,

Prof. Dr. Hans-Christoph Nürk

Rahel Menges

The role of neuronal mitochondria in a 22q11 deletion model of Schizophrenia

Supervisors: Dr. Julia Fitzgerald,

Dr. Richard Wüst

Matthias Viteritti

Tracking cognitive decline in Parkinson's disease

Supervisors: Prof. Dr. Inga Liepelt-Scarfone,

Prof. Dr. Hans-Christoph Nürk

Beatrix Mahnke

Exploring lipid transport, storage and degeneration in a Spastin-deficient iPSC-derived neural model of HSP

Supervisor: Prof. Dr. Ludger Schöls

Anubhav Rakshit

Subthalamo-cortical synchronization during walking and freezing of gait in Parkinson's disease

Supervisors: Prof. Dr. Ulrich G. Hofmann (Freiburg), Prof. Dr.

Daniel Weiß

Conferences & Workshops

6. Tübinger-Stuttgarter Parkinson-Tag

Leinfelden-Echterdingen, 6 May 2023

Scientific coordinators: Prof. Dr. Kathrin Brockmann,

Prof. Dr. Inga Liepelt-Scarfone, Dr. Heinz Herbst

(Neuronetz Stuttgart)

Department of Neurology and Epileptology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Holger Lerche

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Prof. Dr. Alexander Grimm
Dr. Josua Kegele
Dr. Ulrike Hedrich-Klimosch
Dr. Stephan Lauxmann
PD Dr. Justus Marquetand
Dr. Pascal Martin
Dr. Melanie Schreiber
Prof. Dr. Sigrid Schuh-Hofer
Prof. Dr. Yvonne Weber (partially affiliated)
Dr. Natalie Winter
Dr. Thomas Wuttke

SCIENTISTS/RESIDENTS

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Maria-Sophie Breu
Toghrul Gasimli
Dr. Dr. Randolph Helfrich
(Independent research group leader at the HH)
Dr. Yiwen Li Hegner
Dr. Benedict Kleiser
Katharina Kneer
Dr. Cornelius Kronlage
Laura Kugler
Dr. Robert Lauerer-Braun
Dr. Stefanie Liebe
Christina Lipski
Dr. Yuanyuan Liu
Soraya Maier
Daniela Miely
Dr. Peter Müller
Filip Rosa
Dr. Victoria Ruschil
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Jan-Hendrik Stahl
Dr. Stephanie Straub
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Hayri can Calap
Maryam Erfanian Omidvar
Albina Farkhutdinova
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Moritz Hanke
Alexandra Hermes
David Heuer
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Raviteja Kotikalapudi
Marielle Krauss
Johanna Krüger (until 08/23)
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Nikolas Layer
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Betül Uysal
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Athar Sharifi
Supervisor: Dr. Yuanyuan Liu

Sascha Steiner
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Supervisors: Dr. Ulrike Hedrich-Klimosch, Stefano Iavarone

Ngoc Luong
Supervisor: Dr. Yuanyuan Liu

Lena Mittelstraß
Supervisor: Dr. Yuanyuan Liu

Jennifer Reif
Supervisor: Dr. Niklas Schwarz

Clinical Studies

Apollon / CAMG334ADE03 - Assessment of Prolonged safety and tOLerability of erenumab in migraine patients in a Long-term OpEN-label study
Investigator: Prof. Dr. Holger Lerche

BIA-2093-213 - prevention of epilepsy in stroke patients at high risk of developing unprovoked seizures: anti-epileptogenic effects of eslicarbazepine acetate
Investigator: Prof. Dr. Holger Lerche

ELEVATE / 3101-304-002 -
A Phase 3, Multicenter, Randomized, Double-blind, Placebo-controlled, Parallel-group Study to Evaluate the Efficacy, Safety, and Tolerability of Oral Atogepant for the Prophylaxis of Migraine in Participants with Episodic Migraine Who Have Previously Failed 2 to 4 Classes of Oral Prophylactic Treatments
Investigator: Prof. Dr. Holger Lerche

PIMIDES I / CV08-017 - A pilot study to assess the feasibility of patient-controlled neurostimulation with the EASEE® System to treat medically refractory focal epilepsy
Investigator: Dr. Josua Kegele

EDITH - Evaluation of a digital treatment platform (CDSS) for outpatient and trans-sectoral care for epilepsy patients: EDITH (Epilepsie richtig Diagnostizieren und Therapieren): Monozentrisch zweiarmlige, randomisierte, einfach-verblindete, kontrollierte klinische Prüfung (IIT; Pilotstudie, Prüfung nach MPDG und nach EU-V 745/2017 Art. 82)
Investigator: Dr. Josua Kegele

ToSEE - Treatment of Established Status Epilepticus in the Elderly - a prospective, randomized, double-blind comparative effectiveness trial
Investigator: Prof. Dr. Holger Lerche

PERPRISE / E2007-M049-509 - A prospective non-interventional study evaluating the effectiveness of perampanel (Fycompa®) as only add-on treatment in patients with primary or secondarily generalized tonic-clonic seizures
Investigator: Prof. Dr. Holger Lerche

FINESSE / TV48125-MH-40148 - Prospective observational study of Fremanezumab (Ajovy™) effectiveness in chronic and episodic migraine patients in clinical routine
Investigator: Prof. Dr. Sigrid Schuh-Hofer

TRIUMPH / I5Q-MC-B004 - preventive TReatment of migraine: oUtcoMes for Patients in real-world Healthcare systems
Investigator: Prof. Dr. Sigrid Schuh-Hofer

TUNAP – Studie zur Evaluierung der Rolle des Nervenultraschalls bei Nervenraumata
Investigators: Prof. Dr. Alexander Grimm, Dr. Natalie Winter,

UPSS – Pattern Analysis bei Neuropathien
Investigators: Prof. Dr. Alexander Grimm, Dr. Natalie Winter, Jan-Hendrik Stahl, Dr. Josua Kegele, Dr. Sophia Willikens, Julia Wittlinger, Debora Vittore-Welliong

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

ASPIRE 2022
Scanning for the needle in the haystack – a new diagnostic algorithm for early diagnosis of hATTR amyloidosis a multicentric baseline study
Investigators: Dr. Natalie Winter, Dr. Maike Dohrn (UWTH Aachen), Prof. Katrin Hahn (Charité Berlin)

Tram2 – Screening for TTR-Amyloiosis in patients with axonal neuropathy (in cooperation with Centogene Rostock)
Investigators: Prof. Dr. Alexander Grimm, Dr. Natalie Winter, Jan-Hendrik Stahl, Dr. Josua Kegele, Dr. Sophia Willikens, Julia Wittlinger, Debora Vittore-Welliong

I-Guide – Follow-Up Study of CIDP and MMN patients with treatment of ivIG (in cooperation with Grifols)
Investigators: Prof. Dr. Alexander Grimm, Dr. Natalie Winter, Jan-Hendrik Stahl, Dr. Josua Kegele, Dr. Sophia Willikens, Julia Wittlinger

Britoba - A 12-month noninterventional observational multinational study to evaluate effectiveness, tolerability, and quality of life of Brivaracetam adjunctive therapy in earlier treatment lines in adult patients with history of partial-onset seizures in daily clinical practice
Investigator: Prof. Dr. Holger Lerche

XPF-008-201 - A Randomized, Double-blind, Placebo-controlled, Multicenter Study to Evaluate the Safety, Tolerability and Efficacy of XEN1101 as Adjunctive Therapy In Focal-onset Epilepsy, with an Open-label Extension

Investigator: Prof. Dr. Holger Lerche

CLN-PXT3003-06 - A Multi-Center, randomized, double-blind, placebo-controlled phase III study to assess the efficacy, safety, and tolerability of PXT3003 in Charcot-Marie-Tooth type 1A (CMT1A)

Investigator: Prof. Dr. Alexander Grimm

PDY16744 - A Phase 2, multicenter, open-label, non-randomized, proof-of-concept study evaluating the efficacy, safety, and tolerability of BIVV020 in adults with chronic inflammatory demyelinating polyneuropathy (CIDP)

Investigator: Prof. Dr. Alexander Grimm

CENOR / 169(A)MD21350 - Retrospective study on the use of CENOBAMATE as adjunctive treatment in a cohort of patients suffering from epilepsy with Focal Onset Seizure (FOS) and enrolled into the Early Access Program (EAP) in Germany, France and UK

Investigator: Prof. Dr. Holger Lerche

ALXN1720-MG-301 - A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel, Multicenter Study to Evaluate the Safety and Efficacy of ALXN1720 in Adults with Generalized Myasthenia Gravis

Investigator: Prof. Dr. Alexander Grimm

ARGX-113-2007 - A Phase 2/3, Randomized, Double-Blinded, Placebo-Controlled, Parallel-Group, 2-Arm, Multicenter, Operationally Seamless Study to Evaluate the Efficacy, Safety, Tolerability, Pharmacodynamics, Pharmacokinetics, and Immunogenicity of Efgartigimod PH20 SC in Participants Aged 18 Years and Older With Active Idiopathic Inflammatory Myopathy

Investigator: Prof. Dr. Alexander Grimm

Chordate / PM010 - An open Post-marketing Clinical Follow-up investigation to follow long-term performance and safety of intranasal kinetic oscillation in subjects with chronic migraine.

Investigator: Prof. Dr. Sigrid Schuh-Hofer

ABBVIE / M22-061 - A Randomized, Double-blind, Parallel-group, Active Controlled Trial with Open-label Safety Extension to Evaluate the Tolerability, Safety, and Efficacy of Atogepant versus Topiramate in Subjects Requiring Preventive Treatment of Migraine (TEMPLE)

Investigator: Prof. Dr. Sigrid Schuh-Hofer

SMartCARE - Progress monitoring and therapy evaluation for spinal muscular atrophy

Investigator: Dr. Pascal Martin

Third-Party Funding

ONGOING GRANTS

Trimodale Bildgebung humaner Hirnnetzwerke mittels simultaner PET/MR/EEG

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

Funding Institution: German Research Foundation (DFG)

Entwicklung einer digitalen Behandlungsplattform (Clinical Decision Support System, CDSS) für Epilepsie Patienten

Project leader: Prof. Dr. Yvonne Weber

Funding Institution: Land Baden-Württemberg

Projekte Genetische Forschung Epilepsie

Project leader: Prof. Dr. Holger Lerche

Funding institution: Foundation no epilep

TUNAP- Hochauflösender Nervenultraschall als Biomarker bei traumatischen peripheren Nervenverletzungen

Project leaders: Prof. Dr. Alexander Grimm, Dr. Natalie Winter

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

TreatION - New therapies for neurologic ion channel and transporter disorders

Coordinator: Prof. Dr. Holger Lerche

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

Second funding period (2022-2025)

TP1: Coordination, Mol.-Therap. Board, and existing rare disease initiatives

Project leader: Prof. Dr. Holger Lerche

(with Dr. Holm Graessner from the Centre of Rare Diseases, Tübingen)

TP4: Pathophysiology and therapy of SCN8A and CACNA1G associated ataxia

Project leader: Dr. Yuanyuan Liu

(with Prof. Dr. Ludger Schöls, University of Tübingen)

TP7: Multimodal analysis of novel mouse models associated with glutamate transporter dysfunction

Project leader: Dr. Ulrike Hedrich-Klimosch

(with Prof. Dr. Nikolaus Plesnila, LMU Munich)

TP8: Pathophysiology and therapy in human neuronal models of KCNA2 channelopathies

Project leaders: Prof. Dr. Holger Lerche, Dr. Niklas Schwarz

Single-cell transcriptome sequencing to investigate mechanisms of epileptogenesis in genetic mouse models and human brain biopsy tissue

Project leaders: Dr. Ulrike Hedrich-Klimosch, Dr. Henner Koch (with Prof. Dr. Albert Becker, University of Bonn and

Prof. Dr. Dirk Isbrandt, University of Cologne)

Funding institution: German Research Foundation (DFG)

Functional in vivo restoration of genetically determined epileptic neocortical circuitry

Project leader: Dr. Thomas Wuttke

Funding Institution: German Research Foundation (DFG)

Non-viral gene therapy in refractory epilepsy using the Brain BaDGE® technology

(collaborative project with Prof. Gary Housley, University of South Wales Sydney and Boehringer Ingelheim)

Project leaders Tübingen: Prof. Dr. Holger Lerche, Dr. Thomas Wuttke

Funding Institution: Boehringer Ingelheim International GmbH

Establishment of a human electrophysiological model to quantify the CGRP-related axon reflex of trigeminal afferents and its evaluation as a clinical tool to assess and predict treatment effects of migraine prophylaxis

Project leader: Dr. Victoria Ruschil

Funding institution: Medical Faculty, University of Tübingen (Clinician Scientist)

Understanding the network consequences of interneuron loss- versus gain-of-function as a distinct disease correlates by using high resolution electrical imaging

Project leaders: Dr. Ulrike Hedrich-Klimosch,

Dr. Thomas Wuttke, Dr. Niklas Schwarz,

Dr. Günther Zeck (NMI Reutlingen)

Funding Institution: Hertie Foundation

Functional and ultrastructural studies of neuron-oligodendroglia interactions and myelination in Dravet syndrome

Project leader: Dr. Ulrike Hedrich-Klimosch

Funding Institution: Gruppo Famiglie Dravet Associazione Onlus

SCN1A-UP! - Therapeutic strategies for Dravet syndrome: upregulation of endogenous SCN1A and modulation of pathological remodeling

Project leader: Dr. Ulrike Hedrich-Klimosch

(Speaker: Dr. Massimo Mantegazza, CNRS UNR7275 & Université Cote d'Azur)

Funding Institution: German Research Foundation (DFG)

TreatKCNQ - Targeted treatment for KCNQ related encephalopathies: retigabine analogues, repurposed drugs and allele specific knock down.

Project leader: Dr. Thomas Wuttke

(Speaker: Dr. Sarah Weckhuysen, University of Antwerp)

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

Entwicklung von Computer-Modellen zur Vorhersage der Auswirkungen von Ionenkanalmutationen auf neuronales Verhalten

Project leader: Dr. Stephan Lauxmann

Funding Institution: Deutsche Gesellschaft für Epileptologie (DGfE, Otfrid Foerster Stipendium)

DFG-Research Unit FOR2715 'Epileptogenesis of genetic epilepsies' (second funding period from 2021-2024)

Speaker: Prof. Dr. Holger Lerche

Funding institution: German Research Foundation (DFG), additional funding by the FNR (Luxembourg): including the following grants from the HIH:

P2: Rare genetic factors in epileptogenesis

Project leader: Prof. Dr. Holger Lerche

(with Dr. Patrick May from Luxembourg University)

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

Project leaders: Prof. Dr. Holger Lerche, Dr. Thomas Wuttke

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

Project leader: Dr. Ulrike Hedrich-Klimosch

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

Coordination and Central Management

Project leader: Prof. Dr. Holger Lerche

ILAE Task Force on Sequencing Data Sharing / ILAE Genomics

Project leader: Prof. Dr. Holger Lerche

Funding institution: International League Against Epilepsy (ILAE)

Clinician Scientist Program

Project leader: Dr. Justus Marquetand

Funding Institution: University of Tübingen

IZKF Stipendium

Jan Vincent Otte

Funding institution: University of Tübingen / IZKF

Spectral Fingerprints of Sleep Deprivation Induced hyperalgesia (2021-2023)

Project leaders: Prof. (apl) Dr. Sigrid Schuh-Hofer,

Dr. Dr. Randolph Helfrich

Funding Institution: DFG (SFB Associate Project 1158)

NEW GRANTS

PATE Stipendium - Gen-Set Burden Analysen von Ultra-Rare Varianten und krankheitsübergreifende Analysen in Exom-negativen entwicklungsabhängigen und epileptischen Enzephalopathien

Project coordinator: Dr. Josua Kegele

Funding institution: University of Tübingen

Untersuchung von Calcitonin Gene-Related Peptide als klinischer Biomarker in der Behandlung der Migräne

Project coordinator: Dr. Victoria Ruschil

Funding institution: Deutsche Migräne- und Kopfschmerzgesellschaft e.V. (DMKG)

Network dynamics of the electro-magnetic epileptic focus in patients with focal cortical dysplasia

Project leader: Dr. Yiwen Li Hegner (collaboration project with PD Dr. Marcel Heers from University Clinic Freiburg)

Funding Institution: German Research Foundation (DFG)

Fellowship of the Hertie Network of Excellence in Clinical Neuroscience

Project coordinator: Dr. Stephan Lauxmann

Funding institution: Hertie Foundation

IZKF Stipendium

Kilian Lüdicke

Funding institution: University of Tübingen / IZKF

Dichgans Stipendium

Project participants: Hayri can Calap

Funding institution: Hertie Foundation

Third-Party Funding

NEW GRANTS

Use Multimodal 9.4T Ultra-High Field MRI to Detect FCDs in 'MRI-negative' Focal Epilepsy Patients

Project leader: Dr. Cornelius Kronlage

Funding Institution: DFG/University of Tübingen (MINT Clinician Scientist Program)

Modelling spatial hearing and underlying EEG responses in subjects with normal hearing and cochlear implant users

Project leader: Dr. Stefanie Liebe

Funding Institution: European Commission (Horizon MSCA Doctoral Network 2022 CheriSh)

Neural Interaction during context dependent visual processing in the human medial temporal lobe

Project leader: Dr. Stefanie Liebe

Funding Institution: DFG (SPP 2411: Sensing LOOPS: Cortico-subcortical Interactions for Adaptive Sensing)

EKFS Kolleg for Clinician Scientists - Precise.net: Gen, Mechanismus, Therapie: Netzwerk für eine Präzisionsmedizin genetisch-neurologischer Erkrankungen

Speaker: Prof. Dr. Matthias Synofzik; Deputy Speakers:

Prof. Dr. Rebecca Schüle, Prof. Dr. Holger Lerche

Funding Institution: Else Kröner Fresenius Stiftung (EKFS), including the following grants from our Dept.:

TP3: Lerche/Garaschuk/Kovalschuk: Ionenkanalfunktionen in vitro

TP8: Scheffler/Bender/Lerche: Kleinhirn- und

Motorcortex-Volumetrie als Biomarker

TP10: Hedrich et al.: Therapieeffekte in Mausmodellen

EKFS Kolleg for Medical Scientists: ClinBrAI: Künstliche Intelligenz für Klinische Hirnforschung

Speakers: Prof. Dr. Jakob Macke, PD Dr. Katrin Brockmann, Prof. Dr. Martin Giese

Funding Institution: Else Kröner Fresenius Stiftung (EKFS), including the following grants from our Dept.:

A1: Winter/Grimm + Bethge: Verbesserung der Nervensonografie bei PatientInnen mit Polyneuropathie

A2: Liebe/Helfrich/ + Akata: Interpretierbares Deep Learning zur automatisierten Analyse von EEG Signaturen

A4: Lerche + Pfeifer: Vorhersage der Wirksamkeit von Antiepileptika bei fokalen und generalisierten Epilepsien

Conferences & Workshops

2nd Channelopathy Meeting Tübingen: Genetic epilepsies and other neuronal ion channel disorders: Mechanisms and therapeutic perspectives

Tübingen, 4-6 October 2023

Scientific coordinators: Prof. Dr. Holger Lerche,

Dr. Ulrike Hedrich-Klimosch, Dr. Thomas Wuttke

Awards

PD Dr. Justus Marquetand

Felix-Jerusalem-Preis 2023

Dr. Benedict Kleiser

Ulrich-Brodeßer-FSHD-Research Award 2023

Postdoctoral Lecture Qualification

(German Habilitation, completed in 2023)

PD Dr. Justus Marquetand

Quantensensorische Anwendungen in der klinischen Neurophysiologie

Supervisor: Prof. Dr. Holger Lerche

PhD Theses

(Completed in 2023)

Betül Uysal

Generation of a Human Disease Model for KCNA2-related Developmental and Epileptic Encephalopathy using iPSC-derived Neurons

Supervisors: Prof. Dr. Holger Lerche, Dr. Dr. Niklas Schwarz,

Johanna Krüger

Analysis of rare genetic variants in genetic generalized epilepsies

Supervisor: Prof. Dr. Holger Lerche

Niklas Schwarz

WE ARE HUMAN AFTER ALL - Model systems to study human neuronal function

Supervisor: Prof. Dr. Holger Lerche

MD Theses

(Completed in 2023)

Pauline Scheuber

Elektrophysiologische Charakterisierung Epilepsie-assoziiierter Defekte im GABRA3 Gen

*Supervisors: Prof. Dr. Holger Lerche,
Dr. Ulrike Hedrich-Klimosch*

Cem Toker

Scherwellen-Elastographie bei Bruxismus

Supervisor: PD Dr. Justus Marquetand

Leonie Schuster

Vergleich eines konventionellen EEG-Systems mit einem neuartigen Schwämmchen-EEG für den klinischen Routineeinsatz

Supervisors: Prof. Dr. Holger Lerche, PD Dr. Justus Marquetand

Master Theses

(Completed in 2023)

Elisabeth Brand

In vitro study of antisense oligonucleotides for therapy of KCNA2-gain-of-function encephalopathy and functional analysis of scorpion toxin peptide BmK86-P1

Supervisors: Dr. Ulrike Hedrich-Klimosch, Dr. Peter Müller

Sascha Steiner

Development of a SCN1A knockdown model of Dravet Syndrome

Supervisors: Dr. Ulrike Hedrich-Klimosch, Stefano Iavarone

Bachelor Theses

(Completed in 2023)

Maya Ayash

Investigating GABAergic synapse dysfunction in a mouse model of Dravet Syndrome

Supervisor: Dr. Thomas Wuttke

Victoria Spöttl

Molecular Cloning of mCherry(GFP)-T2A-KCNA2 Adeno-associated Viral Vector

Supervisor: Filip Rosa

Julia Wittlinger

Ultraschall bei peripheren traumatischen Nervenläsionen: eine retrospektive Datenanalyse

Supervisor: Dr. Natalie Winter

Department of Neurology and Interdisciplinary Neuro-Oncology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Dr. Ghazaleh Tabatabai

GROUP LEADERS/ ATTENDING PHYSICIANS

Prof. Dr. Mirjam Renovanz
(Deputy director, Junior group leader)
PD Dr. Felix Behling (Neurosurgery attending)
PD Dr. Johannes Rieger (instructor, part time)
Prof. Dr. Constantin Roder (Neurosurgery attending)
PD Dr. Marco Skardelly (instructor, part time)

SCIENTISTS/RESIDENTS

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Paula Bombach
Dr. Sarah Erdmann
Lucia Grosse
PD Dr. Isabel Gugel
Dr. Svenja Hucker
Dr. Sylvia Kurz
PD Dr. Susan Noell
Dr. David Rieger

PHD STUDENTS

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Anke King
Laurence Kuhlburger
Foteini Tsiami
Surender Surender
Bianca Walter

**MEDICAL DOCTORAL
STUDENTS**

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Aaron Falkner
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Jens Gieger
Christopher Heinemann
Mona Hirt
Neha Jain
Natalya Korinetska
Felix Krautwurst
Lukas-Michael Kugler
Louise Maise
Peter Paßlack
Leonard Schnabel
Felix Stange
Jil Trampert

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(Scientific Administration/Management)
Sigrid Baltes
Yeliz Donat
Sarah Hendel
Melina Hippler
Marion Jeric
Wilhelm Lang
Susanne Luginsland
Heike Pfrommer
Dr. Marlene Röttgen
Ute Walter
Kirsten Wyrwich

Clinical Studies

NEUROONCOLOGY STUDIES RECRUITING TRIALS (OPEN FOR ENROLLMENT)

Gloria -SNOXA12C401: Single-arm, Dose-Escalation, Phase 1/2 Study of Olaptosed Pegol (NOX-A12) in Combination with Irradiation in Inoperable or Partially Resected First-line Glioblastoma Patients with Unmethylated MGMT Promoter
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: NOXXON Pharma AG

NOA 13: prospektive Beobachtungsstudie zur Chemotherapie bei nicht spezifisch vorbehandelten Patienten mit primärem ZNS-Lymphom (PZNSL)
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Universitätsklinikum Bochum

Meningeosis Register: Multizentrische nicht-interventionelle Studie zur prospektiven Beobachtung und systematischer Behandlungsdokumentation bei Patienten mit leptomeningealer Ausbreitung eines Tumors
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Universität Marburg

ZPM-001: Nicht-interventionelle Studie zur prospektiven systematischen Analyse der weiterführenden Molekular-diagnostik und zielgerichteter Therapiestrategien
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: University Hospital Tübingen

ON-TRK: PrOspective Non-interventional study in patients with locally advanced or metastatic TRK fusion cancer treated with larotrectinib.
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Bayer

Glio-XS15: multi-peptide vaccination with XS15 in newly diagnosed MGMT-methylated glioblastoma plus standard therapy.
Principal Investigator: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: University Hospital Tübingen

IT PD-1/NOA-26: Intrathecal application of PD1 antibody in metastatic solid tumors with leptomeningeal disease
Principal Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: University Hospital Tübingen

BASILEA: An open-label Phase 1/2a study of oral BAL101553 in adult patients with advanced solid tumors and in adult patients with recurrent or progressive glioblastoma or high-grade glioma
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Basilea

IMPROVE CODEL / NOA-18: Improvement of functional outcome for patients with newly diagnosed grade II or III glioma with co-deletion of 1p/19q – IMPROVE CODEL: the NOA-18 trial
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: University Hospital Heidelberg

MecMeth/ NOA-24: Phase I/II trial of meclofenamate/temozolomide combination therapy in relapsed MGMT-methylated glioblastoma
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: University Hospital Bonn

Trident EF32: A pivotal randomized, open-label study of Optune® (TTFields, 200KHZ) concomitant with radiation therapy and temozolomide for the treatment of newly diagnosed glioblastoma.
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Novocure

TRACE: App-basierte Erfassung der Lebensqualität unter zielgerichteter Therapie
Investigator in Tübingen: Dr. Mirjam Renovanz
Sponsor: University Hospital Tübingen

TIGER PRO-Active: Use of TTFields in Germany in routine clinical care study PROgram - daily activity, sleep and neurocognitive functioning in newly diagnosed glioblastoma patients Study.
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
Sponsor: Novocure

GBM AGILE: Global Adaptive Trial Master Protocol: An International, Seamless Phase II/III Response Adaptive Randomization Platform Trial Designed To Evaluate Multiple Regimens In Newly Diagnosed and Recurrent Glioblastoma.
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
 Sponsor: Global Coalition for Adaptive Research, Larkspur, USA

CV-GBLM-001: A Phase 1 Dose-Finding Study to Evaluate Safety and Tolerability of CVGBM in Patients with Surgically Resected Glioblastoma (GBM) or Astrocytoma with a Molecular Signature of Unmethylated Glioblastoma.
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
 Sponsor: CureVac SE, Wiesbaden

Kunst*Kraft*Werke: Evaluation der Kognition und Lebensqualität neuroonkologischer Patient*innen und deren Angehörige bei der Betrachtung von Kunstobjekten
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
 Sponsor: University Hospital Tübingen

EORTC1721: Verständnis der langfristigen Auswirkungen der Behandlung seltener Hirntumoren auf die gesundheitsbezogene Lebensqualität: Eine europäische Querschnittsstudie
Investigator in Tübingen: Prof. Dr. Mirjam Renovanz
 Sponsor: University Hospital Leeds (Great Britain)

GLIOSTAR: A study to evaluate the safety and efficacy of the tumor-targeting human antibody-cytokine fusion protein L19TNF plus lomustine in patients with glioblastoma at first progression
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
 Sponsor: Philogen S.p.A.

INTERCEPT H3: A MultIceNter Phase I Peptide VaCcine Trial to Exploit NeoEPitope-Specific T Cells for the Treatment of H3K27M-Mutated Glioma
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
 Sponsor: German Cancer Research Center (DKFZ), Heidelberg

ACTION: ONC201 for the Treatment of Newly Diagnosed H3 K27M-mutant Diffuse Glioma Following Completion of Radiotherapy: A Randomized, Double-Blind, Placebo-Controlled, Multicenter Study
Investigator in Tübingen: Dr. Sylvia Kurz
 Sponsor: Chimerix, Inc., USA

PersoMed-I/NOA-23/EORTC 1634: Personalisierte, risikoangepasste Therapie bei postpubertären Patienten mit neu diagnostiziertem Medulloblastom
Investigator in Tübingen: Prof. Dr. Dr. Ghazaleh Tabatabai
 Sponsor: European Organisation for Research and Treatment of Cancer (EORTC)

Clinical Studies

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

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

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-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

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: Immatics GmbH, Tübingen

CeTeG/NOA09 (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

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

MIRAGE(EORTC-1709-BTG): A phase III trial of marizomib in combination with standard temozolomide-based radiochemotherapy versus standard temozolomide-based radiochemotherapy alone in patients with newly diagnosed glioblastoma

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

Sponsor: EORTC

NOA 19: Retest-Reliabilität und lokalisationsabhängige Sensitivität neurokognitiver Testung bei erst-diagnostizierten Glioblastompatienten

Investigator in Tübingen: Dr. Mirjam Renovanz

Sponsor: University Hospital Tübingen

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 Dr. Constantin Roder, Prof. Dr. Marcos Tatagiba

Sponsor: University Hospital Tübingen

GLIOPT: Gliompatienten in der ambulanten Versorgung - Optimierung des psychosozialen Screenings bei ambulanten neuroonkologischen Patienten in einer prospektiven multizentrischen Studie

Investigator in Tübingen: Dr. Mirjam Renovanz

Sponsor: University Hospital Tübingen

ROSALIE: A Multicenter, Open-Label, First-in-Human, Phase Ib/IIa Trial of EO2401, a Novel multipptide Therapeutic Vaccine, with and without PD-1 Check Point Inhibitor, Following Standard Treatment in Patients with Progressive Glioblastoma (Rosalie study)

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

Sponsor: Enterome

FIGHT 209: Eine offene, einarmige, multizentrische Phase-II-Studie zur Beurteilung der Wirksamkeit und Sicherheit von Pemigatinib bei Teilnehmern mit zuvor behandelten Glioblastomen oder anderen primären Tumoren des zentralen Nervensystems, die aktivierende FGFR1-3-Alterationen aufweisen

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

Sponsor: Incyte Corporation

N2M2/NOA 20 (NCT-2014-0235)

Umbrella protocol for phase I/IIa trials of molecularly matched targeted therapies plus radiotherapy in patients with newly diagnosed glioblastoma without MGMT promoter methylation: NCT Neuro Master Match - N²M² (NOA-20)

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

Sponsor: University Hospital Heidelberg

AmplifyNeovac/NOA-21 (NCT-2016-0458): Amplifying Neopeptide-specific Vaccine Responses in progressive diffuse glioma – a randomized, open label, 3 arm multicenter Phase I trial to assess safety, tolerability and immunogenicity of IDH1R132Hspecific peptide vaccine in combination with checkpoint inhibitor Avelumab (AMPLIFY-NEOVAC, NOA-21)

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

Sponsor: German Cancer Research Center

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Third-Party Funding

ONGOING 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 Tübingen

EKFS-Forschungskolleg „Therapieresistenz solider Tumore“

Project leader: Prof. Dr. Dr. Ghazaleh Tabatabai

Funding institution: Else Kröner-Fresenius-Stiftung

Understanding acquired resistance and synthetic lethal interactions by functional genomics for designing rational combination therapies in glioblastoma

Project leader: Dr. Daniel Merk

Funding institution: Medical Faculty

A functional genomics approach to define resistance mechanisms and synthetic lethal interactions of CDK4/6 inhibition in atypical teratoid rhabdoid tumors (ATRT)

Project leader: Dr. Daniel Merk

Funding institution: German Research Foundation (DFG)

Functional validation of DNA methyltransferase 1 (DNMT1) as an epigenetic target for treatment of Sonic hedgehog medulloblastoma

Project leader: Dr. Daniel Merk

Funding institution: Wilhelm Sander Foundation

PhD Theses

(Completed in 2023)

Bianca Walter

Understanding, inducing and exploiting actionable vulnerabilities in experimental gliomas

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

MD Theses

(Completed in 2023)

Mona Hirt

Retrospektive Analyse molekulargenetischer Alterationen und des klinischen Verlaufs neuroonkologischer PatientInnen nach Immuncheckpoint-Inhibitor-Behandlung

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

Master Theses

(Completed in 2023)

Tanja Urz

Treatment induced cell-intrinsic therapeutic vulnerabilities during alkylating chemotherapy in glioma cell lines

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

Bachelor Theses

(Completed in 2023)

Silas Wisser

The impact of p53 signalling on synergistic effects of combining ATR inhibition with temozolomide or olaparib in experimental glioma

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

Elisa Moser

Potential Modulation of Response to CDK4/6 Inhibition in Glioma Cells by AMBRA1

Supervisor: Prof. Dr. Dr. Ghazaleh Tabatabai

Conferences & Workshops

Neurooncology Tübingen Curriculum

Coordinator: Prof. Dr. Dr. Ghazaleh Tabatabai

17 January 2024

Radiotherapy dose concepts for skull base tumors
Nuclear medicine applications for brain tumors –
status quo and future perspectives
Prof. Dr. Nathalie Albert, Nuklearmedizin LMU München

17 April 2024

iMRI vs. 5-ALA for the resection of Glioblastoma: Results of a
prospective multicenter trial
Prof. Dr. Constantin Roder, Universitätsklinikum Tübingen

15 May 2024

Aktuelle klinische Therapie-Studien am Zentrum für Neu-
roonkologie
Prof. Dr. Dr. Ghazaleh Tabatabai, University Hospital
Tübingen

19 June 2024

Target delineation and radiotherapy details for glioblasto-
ma: current concepts and outlook
Prof. Dr. med. Dipl.-Phys. Maximilian Niyazi, University Hospital
Tübingen

17 July 2024

Data Science in Neurooncology
Prof. Dr. Sven Nahnsen, Zentrum für Quantitative Biologie
(QBiC), University Tübingen

23 October 2024

Stereotaktische Radiochirurgie von multiplen
Hirnmetastasen
Dr. Raphael Bodensohn, University Hospital Tübingen

20 November 2024

Chirurgisches Management von intramedullären Ependy-
momen
Prof. Marcos Tatagiba, University Hospital Tübingen

18 December 2024

Primary Central Nervous System Lymphoma: state of the art
and future perspectives
Prof. Joachim Baehring, Yale New Haven Hospital, USA

Tübinger Therapietag Neurologie

Conference and Workshop

Hertie Center for Neurology, University Hospital Tübingen
15 July 2024

Coordinator: Prof. Dr. Dr. Ghazaleh Tabatabai

Diamond-Mentoringprogramm der NOA

Stuttgart Workshop: "Führung und Organisation im
Krankenhaus: Komplexität und eigene Wirksamkeit"
Prof. Dr. Thomas Schumacher

11 September 2024

Coordinator: Prof. Dr. Dr. Ghazaleh Tabatabai

Department of Neural Dynamics and Magneto- encephalography



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Markus Siegel

SCIENTISTS/RESIDENTS

Prof. Dr. Christoph Braun
PD Dr. Justus Marquetand
Dr. Joachim Bellet
Dr. Antonino Greco
Dr. Paul Hege
Dr. Qinglin Li
Dr. Yiwen Li Hegner
Dr. Justus Marquetand
Dr. Nima Noury
Dr. Constantin von Nicolai

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Florian Sandhäger
Jan Schlüsener
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Ruben Tammara
Alekssejs Timcenko
Ema Zezelic

TECHNICAL STAFF/ ADMINISTRATION

Jürgen Dax
Timo Larbig
Gabriele Walker-Dietrich

Clinical Studies

Acting in space and time – two functions of the same neural circuits?

*Investigators: Dr. Qinglin Li, Dr. David Hawellek,
Prof. Dr. Markus Siegel*

Cortico-subcortical motifs of neuronal spike-field coupling

Investigators: Andrea Ibarra Chaoul, Prof. Dr. Markus Siegel

Sequence motifs of rhythmic cortical activity

Investigators: Paul Hege, Prof. Dr. Markus Siegel

Large-scale neuronal dynamics of value-based decision making

*Investigators: Jungmin Lee, Dr. Qinglin Li,
Prof. Dr. Markus Siegel*

Cortico-subcortical interactions during flexible working memory

*Investigators: Dr. Constantin von Nicolai,
Prof. Dr. Markus Siegel*

Non-invasive entrainment of cortical oscillations using transcranial alternating current stimulation (tACS)

Investigators: Dr. Nima Noury, Prof. Dr. Markus Siegel

Oscillatory waveforms as spectral biomarkers of neuronal circuit interactions

*Investigators: Janet Giehl, Alekssejs Timcenko,
Prof. Dr. Markus Siegel*

Non-invasive decoding of abstract choices using magnetoencephalography (MEG)

Investigators: Florian Sandhäger, Prof. Dr. Markus Siegel

Large-scale interactions during natural vision

Investigators: Jan Schlüsener, Prof. Dr. Markus Siegel

Neural dynamics of human vocalization

Investigators: Vera Voigtländer, Prof. Dr. Markus Siegel

Neural mechanisms of multi-task reinforcement learning

*Investigators: Tobias Ludwig, Dr. Eric Schulz,
Prof. Dr. Markus Siegel*

Clinical Studies

Cortical dynamics of perceptual inference

*Investigators: Katrina Quinn, Ema Zezelic,
Florian Sandhäger, Dr. Nima Noury, Prof. Dr. Markus Siegel*

Neuronal learning of auditory statistical regularities

*Investigators: Dr. Antonino Greco, Dr. Julia Moser,
Prof. Dr. Hubert Preissl, Prof. Dr. Markus Siegel*

Neuronal dynamics and predicts during natural dynamic vision

Investigators: Dr. Antonino Greco, Prof. Dr. Markus Siegel

Large-scale cortical information transfer during sensorimotor decision-making

Investigators: Dr. Joachim Bellet, Prof. Dr. Markus Siegel

OPM-based magnetomyography in health and disease

*Investigators: Hongyu Lu, Haodi Yang, Siyu Li,
Tim Brümmer, Fridos Bouraima, Chrystina Sorrentino,
Nadja Knoke, Dr. Justus Marquetand, SangYeob Baek,
Davide Sometti, Dr. Antonino Greco, Dr. Nima Noury,
Dr. Thomas Middelmann, Dr. Philip Broser,
Prof. Dr. Christoph Braun, Prof. Dr. Markus Siegel,
PD Dr. Justus Marquetand*

Investigating muscle fatigue with OPM-based magnetomyography

*Investigators: Davide Sometti, SangYeob Baek,
Prof. Dr. Christoph Braun, Dr. Thomas Middelmann,
Dr. Philip Broser, PD Dr. Justus Marquetand*

Network analysis in generalized epilepsy

*Investigators: Yiwen Li Hegner, Christina Stier,
Adham Elshahabi, Prof. Dr. Niels Focke,
Prof. Dr. Christoph Braun, Erika Wagner, Hui Chen,
Prof. Dr. Holger Lerche*

Reading of German words and Chinese symbols in dyslexic and normal reading children

*Investigators: Giulia Righetti, Prof. Dr. Christoph Braun,
Prof. Dr. Susanne Trauzettel-Klosinski*

Biological motion and social cognition

*Investigators: Julian Kubon, Valentina Romagnano,
Dr. Alexander Sokolov, Prof. Dr. Christoph Braun,
Prof. Dr. Marina Pavlova*

Spatial hearing in cochlear implant users:

a multisensory training approach

*Investigators: SangYeob Baek, Lorenzo Semeia, Bianca Layer,
Martin Metzger, Dr. Li Hegner, Prof. Dr. Christoph Braun*

Neurophysiological assessment of the subcortical and cortical processing in the auditory system

*Investigators: Carolin Schnabel, Patrick Semle,
Dr. Yiwen Li Hegner, Prof. Dr. Christoph Braun*

Optically pumped magnetoencephalography: multichannel recordings of magnetic brain activity

*Investigators: Konrad Dapper, Hongyu Lu,
Prof. Dr. Marlies Knipper, Prof. Dr. Christoph Braun,
Prof. Dr. Markus Siegel*

Time and space perception in active touch

*Investigators: Davide Sometti, Yvonne Qu,
Prof. Dr. Christoph Braun*

Creative strategies: Investigating neural similarity between semantic search strategies and the exploration-exploitation dilemma

*Investigators: Clara Rastelli, Prof. Dr. Christoph Braun,
Prof. Dr. Markus Siegel*

Structural and functional characterization of the visual pathway in retinitis pigmentosa

*Investigators: Giulia Righetti, Prof. Dr. Christoph Braun,
Dr. Yiwen Li Hegner*

Uncovering motor-unit activity in magnetomyography

*Investigators: Dr. Nima Noury, PD Dr. Justus Marquetand,
Prof. Dr. Markus Siegel*

Laryngeal magnetomyography

*Investigators: Dr. Stephan Wolpert, Dr. Anke Tropitzsch,
Prof. Dr. Hubert Löwenheim, Prof. Marlies Knipper,
PD Dr. Justus Marquetand*

Facial magnetomyography

*Investigators: Dr. Johannes von Fraunberg,
PD Dr. Justus Marquetand*

Third-Party Funding

ERC Consolidator grant:

Neuronal information through neuronal interactions

Project leader: Prof. Dr. Markus Siegel

Funding institution: European Research Council (ERC)

SFB 1233 – project 7:

Large-scale neuronal interactions during natural vision

(DFG SFB 1233 , Robust Vision', TP 7; second funding period)

Project leaders: Prof. Dr. Markus Siegel,

Prof. Dr. Andreas Bartels

Funding institution: German Research Foundation (DFG)

Next generation connectomics: laminar and spectral specificity

Project leaders: Prof. Dr. Markus Siegel,

Prof. Dr. Klaus Scheffler, Dr. Gabriele Lohmann

Funding institution: German Research Foundation (DFG) within SPP 2041 (Computational Connectomics)

Psychophysics and coding of vibrotactile signals in the human fingertip-related tactile system

Project leaders: Prof. Dr. Cornelius Schwarz,

Prof. Dr. Christoph Braun

Funding institution: German Research Foundation (DFG)

Neural Dynamics of human vocal behavior

Project leaders: Vera Voigtländer, Prof. Dr. Markus Siegel

Funding institution: Evangelisches Studienwerk e.V.

Network dynamics of the electro-magnetic epileptic focus in patients with focal cortical dysplasia

Project leaders: Dr. Yiwen Li Hegner, Dr. Marcel Heers

Funding institution: German Research Foundation (DFG)

Myoquant – Integrierte Quantenoptische Magnetometer für Magnetomyographie auf der ISS

Project leaders: Dr. Justus Marquetand,

Dr. Thomas Middemann, Prof. Dr. Markus Siegel

Funding institution: German Aerospace Center (DLR)

Quantum sensors for neurodiagnostics and prosthesis control

Project leaders: Dr. Justus Marquetand, Dr. Leonardo Gizzi,

Dr. Urs Schneider, Prof. Dr. Markus Siegel

Funding institution: Cluster4Future QSens (BMBF)

NEW GRANTS

CherISH: Cochlear Implants and Spatial Hearing

Project leaders: Prof. Dr. Christoph Braun

Funding institution: European Training Network (European Union)

Awards

PD Dr. Justus Marquetand

Felix Jerusalem Prize 2023

MD Theses

(Completed in 2023)

Erika Wagner

Funktionelle Netzwerkanalysen bei STX1B-Mutation - Eine MEG-Studie

Supervisors: Prof. Dr. Christoph Braun,

PD Dr. Justus Marquetand

Master Theses

(Completed in 2023)

Ema Zezelic

Exploring confidence in perceptual decision-making

Supervisor: Prof. Dr. Markus Siegel

Conferences & Workshops

SNS 2023 - Tübingen Systems Neuroscience Symposium

14-15 September 2023

Coordinators: Prof. Dr. Markus Siegel,

Prof. Dr. Christoph Braun

Department of Cellular Neurology



Clinical and Scientific Staff

HEAD OF THE DEPARTMENT

Prof. Dr. Mathias Jucker

GROUP LEADERS

Dr. Deborah Kronenberg-Versteeg
(Glial Cell Biology Group, jointly with the
German Center for Neurodegenerative Diseases, DZNE)
Prof. Dr. Christoph Laske
Dementia Research group,
jointly with the University Department of Psychiatry
and Psychotherapy)
Prof. Dr. Jonas Neher
(Experimental Immunology group, jointly with the
German Center for Neurodegenerative Diseases, DZNE)

SCIENTISTS/RESIDENTS

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Dr. Desirée Brösamle (until 09/23)
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Lena Erlebach
Lisa Häsler
Nina Hermann (until 10/23)
Stephan Käser
Antonia Keller
Dr. Deborah Kronenberg-Versteeg
Dr. Ping Liu (until 04/23)
Dr. Jörg Odenthal
Dr. Marc Oudart
Dr. Vasiliki Panagiotakopoulou
Dr. Angelos Skodras
Dr. Matthias Staufienbiel
Marleen Veit (until 10/23)
Dr. Jessica Wagner (until 09/23)
Marc Welzer
Ying Xu
Dr. Xidi Yuan (until 09/23)

TECHNICAL STAFF/ ADMINISTRATION

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CLINICAL STAFF

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Dr. Anna Hofmann
Elke Kuder-Buletta
Oliver Preische (until 06/23)
Reda Timofejavaite

MASTER STUDENTS

Gamze Özata
Olmo Ruíz Ormaechea
Diana Werner

Clinical Studies

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, Dr. Anna Hofmann, Elke Kuder-Buletta

A Phase 3b/4, Multicenter, Randomized, Double-blind, Placebo-controlled, Parallel-group Study to verify the clinical benefit of Aducanumab (BIIB037) in participants with Alzheimer's Disease

Investigator: Prof. Dr. Christoph Laske

An Efficacy and Safety Study of ALZ-801 in APOE4/4 early AD subjects (APOLLOE4)

Investigator: Prof. Dr. Christoph Laske

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.

Investigator: Prof. Dr. Christoph Laske

Personalized medicine in Alzheimer's disease: New prognostic biomarkers and therapeutic approaches through ultra-deep sequencing of the human gut microbiome:

The aim is to identify new diagnostic and prognostic biomarkers as well as novel treatment targets for Alzheimer's disease in the human gut microbiome.

Investigator: Prof. Dr. Christoph Laske

Third-Party Funding

ONGOING GRANTS

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

Intersite research grant DIAN (Tübingen site)

Project leader: Prof. Dr. Mathias Jucker

Funding institution: German Center for Neurodegenerative Diseases (DZNE)

EpiROM: Epigenetic reprogramming of microglia across neurodegenerative diseases (ID18 – EpiROM)

Project leader: Dr. Jonas Neher

Funding institution: Baden-Württemberg-Stiftung

Longitudinal Study of Individuals that carry Dominantly Inherited Alzheimer's Disease Mutations

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Deutsches Zentrum Neurodegenerativer Erkrankungen (DZNE)

Structural basis of biologically active Abeta-conformers

Project leader: Prof. Dr. Mathias Jucker

Funding institution: German Research Foundation (DFG)

Investigating familial forms of dementia with amyloid deposits

Project leader: Prof. Dr. Mathias Jucker

Funding institution: EISAI Co., Ltd.

DIAN: Dominantly Inherited Alzheimer Network – Subaward Agreement

Project leader: Prof. Dr. Mathias Jucker

Funding institution: NIH / Washington University

Donation for Alzheimer Research and DIAN

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Sigrid-Marx-Stiftung

Understanding the mechanisms of neuronal spread, and role of microglia, in neurodegeneration using mouse and human organotypic slice culture seeding models

Project leader: Prof. Dr. Mathias Jucker

Funding institution: Novartis Institutes for BioMedical Research, Inc. (NIBR)

PHD scholarship

Project leader: Ying Xu

Funding institution: China Scholarship Council

The human brain's immune response to peripheral inflammation and its role in Alzheimer's disease pathology (2018_A158)

Project leader: Prof. Dr. Jonas Neher

Funding institution: Else Kröner-Fresenius-Stiftung

Profiling epigenetic microglial reprogramming in aging and Alzheimer's disease at single-cell level (P1200024)

Project leader: Prof. Dr. Jonas Neher

Funding institution: Hertie Foundation

The role of HIF-1a in the microglial response to Alzheimer's disease pathology

Project leader: Prof. Dr. Jonas Neher

Funding institution: Brightfocus foundation, USA

PHD Scholarship

Project leader: Lena Erlebach

Funding institution: Deutsche Studienstiftung

Combining cerebral organoids and abeta seeding in a novel model to study the role of microglial TREM2 in AD pathology

Project leader: Dr. Vasiliki Panagiotakopoulou
Funding institution: Deutsche Demenzhilfe – Innovative Minds Programm

CSF neuroinflammatory signature in Alzheimer's disease and related proteopathies

Project leader: Stephan Käser, Prof. Dr. Mathias Jucker
Funding institution: Cure Alzheimer's Fund

Zusammenarbeit HIH und ICM im Bereich Biomarker-Veränderungen bei neurodegenerativen Erkrankungen wie der Alzheimer- und Parkinsonerkrankung

Project leader: Prof. Dr. Mathias Jucker, Stephan Käser
Funding institution: Hertie Foundation

Aging and neurodegeneration in a human brain tissue model

Project leader: Dr. Deborah Kronenberg-Versteeg
Funding institution: Chan Zuckerberg Initiative (CZI)

Developing medin amyloid as a therapeutic target

Project leader: Prof. Dr. Jonas Neher
Funding institution: Anonymous Industry Partner

PhD Scholarship

Project leader: Marleen Veit
Funding institution: Hans und Ilse Breuer Foundation

NEW GRANTS

Neurodegeneration at spatial and transcriptional resolution

Project leader: Dr. Deborah Kronenberg-Versteeg
Funding institution: Hertie Network of Excellence

Modelling Alzheimer's disease pathology with cerebral organoids

Project leader: Dr. Vasiliki Panagiotakopoulou
Funding institution: Medical Faculty University Tübingen

PhD Theses

(Completed in 2023)

Desirée Brösamle

Multimodal characterization of Microglia heterogeneity in aging and Alzheimer's Disease Pathology

Supervisor: Prof. Dr. Jonas Neher

Master Theses

(Completed in 2023)

Gamze Özata

Cross-species CSF1R Ligand Binding regulates microglial differentiation

Supervisors: Prof. Dr. Mathias Jucker, Dr. Deborah Kronenberg-Versteeg

Olmo Ruíz Ormaechea

Comparative evaluation of cerebral organoid maturation under different culture conditions

Supervisors: Prof. Dr. Mathias Jucker, Dr. Vasiliki Panagiotakopoulou

Bachelor Theses

(Completed in 2023)

Sandra Mitzkus

Validating transcriptional microglial phenotypes and examining their role in mouse models of Alzheimer's Disease Pathology

Supervisor: Prof. Dr. Jonas Neher

Carla Kolb

Effect of Alzheimer's disease risk gene APOE on human iPSC derived microglia maturation

Supervisors: Prof. Mathias Jucker, Dr. Deborah Kronenberg-Versteeg

Independent Research Groups



RESEARCH AREA N3

NEUROREHABILITATION | NEUROPROSTHETICS | NEUROTECHNOLOGY

Computational Sensomotorics

Motor Control Modeling Laboratory

Systems Neurophysiology Laboratory

Active Perception Laboratory

INDEPENDENT RESEARCH GROUPS

Section for Neuropsychology

Translational Imaging of Cortical Microstructure

Translational Genomics of Neurodegenerative Diseases

Cognitive Neurology Laboratory

Neuropsychology of Action

Oculomotor Laboratory

INDEPENDENT JUNIOR RESEARCH GROUPS

Human Intracranial Cognitive Neurophysiology

Molecular Brain Development

Neuron-Glia Interactions

Computational Sensomotrics

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Martin A. Giese

SCIENTISTS/RESIDENTS

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Dr.-Ing. Winfried Ilg
Dr. Albert Mukovskiy

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Ursula Pascht

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Xinrui Jiang
Prerana Kumar
Alexander Lappe
Christian Lassmann
Lucas M. Martini
Vishnudev Ramachanda
Alessandro Salatiello
Jens Seemann
Jesse St-Amand
Michael Stettler
Nick Taubert
Annika Tierfelder

MASTER STUDENTS

Wolfgang Michael Franca Dantas
Julian-Samuel Gebühr

BACHELOR STUDENTS

Alexa Susan Heubach
Sara Kemmler
Milena Malsch

MEDICAL STUDENTS

Sarah Angehrn
Theresa Beyme
Maya El-Farra
Anna-Theresa Finkbeiner

LAB ROTATION STUDENTS

Ayberk Asik

STUDENT ASSISTANTS

Ayesha Kiran
Emily Schiermeister
Syed Muhammed Umer
Marc Antonio Vöhringer Carrera

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,
Prof. Dr. Martin A. Giese, Prof. Dr. Ludger Schöls,
Prof. Dr. Matthias Synofzik*

Smarte Sensorik bei Telepsychotherapie von Kindern und Jugendlichen mit Zwangsstörungen (SSTeP-KiZ)

*Investigators: Dr. Winfried Ilg, Annika Theifelder,
Prof. Dr. T. Renner, Prof. Dr. Martin A. Giese*

Longitudinal laboratory and real-world assessments of balance and gait in patients with Friedreich's ataxia

Investigators: Dr. Winfried Ilg, Ludger Johannes Schöls

Third-Party Funding

ONGOING GRANTS

How body relevance drives brain organization (RELEVANCE)

Project leader: Prof. Dr. Martin A. Giese

Funding institution: European Research Council,
Horizon 2020 (ERC Synergy, H2020)

Intelligent assistive device for patients with neuro-degenerative movement disorder: detecting and correcting pathological movement in daily activities (iAssistADL)

Project leader: Prof. Dr. Martin A. Giese

Funding institution: Baden-Württemberg Stiftung GmbH
(BM-Stiftung)

ClinbrAI: Künstliche Intelligenz für Klinische Hirnforschung

Project leader: Prof. Dr. Martin A. Giese

Funding institution: Else Kröner Medical Scientist
Promotionskolleg (EKFS Promotionskolleg Tübingen)

Direct recordings of neuronal circuit responses during transcranial magnetic stimulation in rodents (BE 6084/2-1)

Project leader: Dr. Alia Benali

Funding institution: German Research Foundation (DFG)

Awards

Prof. Dr. Martin A. Giese

Mementos EIC Award from Association of Computing
Machinery (ACM)

Master Theses

(Completed in 2023)

Wolfgang Michael Franca Dantas

Entwicklung einer kontextsensitiven Ganganalyse von Patienten mit cerebellarer Ataxie mittels tragbarer Sensoren und Machine Learning

Supervisors: Prof. Dr. Martin A. Giese, Dr. Winfried Ilg, Jens Seemann

Bachelor Theses

(Completed in 2023)

Lukas Weber

Anwendung tiefer neuronaler Netze zur Ganganalyse cerebellärer Patienten im realen Alltag

Supervisors: Prof. Dr. Martin A. Giese, Dr. Winfried Ilg, Jens Seemann

Tim Loris

Vergleich verschiedener Deep Learning Architekturen zur Erhöhung klinischer Anwendbarkeit von tragbaren Inertialsensoren

Supervisors: Prof. Dr. Martin A. Giese, Dr. Winfried Ilg, Jens Seemann

Nicole Doreen Schlipf

Untersuchung von Umweltfaktoren bei Alltagsbewegungen von Patienten mit neurodegenerativen Krankheiten mittels tragbarer Bewegungssensoren

Supervisors: Prof. Dr. Meike Burger, Dr. Winfried Ilg

Juliette Weber

Human Activity Recognition in Children with obsessive-compulsive disorder based on movement sensor data

Supervisors: Prof. Dr. Martin A. Giese, Annika Theirfelder, Dr. Winfried Ilg

Ngoc Dong Anh Vo

Automation of ECG data processing for improved stress detection in patients with obsessive-compulsive disorder

Supervisors: Prof. Dr. Martin A. Giese, Annika Theirfelder, Dr. Winfried Ilg

Motor Control Modeling Laboratory

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

PD Dr. Daniel Häufle

PHD DOCTORAL STUDENTS

Matthew Araz
Fabio Izzi
Junya Inoue
Christian Niethammer
Pierre Schumacher

MD DOCTORAL STUDENTS

Felix Jung

MASTER STUDENTS

Colin Halupczok
Daniel Höglinger
Robin Neubaur
Lukas Vosse

BACHELOR STUDENTS

Jan Kerner
Marina Reichl

INTERNSHIPS

Malte Hendrikson
Maria Sapounaki
Johanna Sellhorn-Timm
Valerie Wendt

Third-Party Funding

ONGOING GRANTS

Einstellbare muskuläre Dämpfung zur Erhöhung von morphological computation bei der Fortbewegung mit Beinen
(DFG HA 7170/3-1)

Project leader: Prof. Dr. Daniel Häufle

Funding institution: German Research Foundation (DFG)

Learning efficient control of non-linear muscle-driven systems: Morphological computation as guiding principle
(CyVy-RF-2020-11)

Project leader: Prof. Dr. Daniel Häufle

Funding institution: Cyber Valley Research Fund

The contribution of bioinspired morphology to the control of technical movement: Quantification with Control Effort and Morphological Computation

Project leader: Prof. Dr. Daniel Häufle

Funding institution: International Max-Planck Research School for Intelligent Systems & University of Tübingen

Integrated models of cognitive and physical human-robot interaction

Project leaders: Prof. Dr. Philip Beckerle, FAU Erlangen,

Prof. Dr. Nele Rußwinkel, TU Berlin, Prof. Dr. Daniel Häufle

Funding institution: VolkswagenStiftung

NEW GRANTS

iAssistADL: Intelligent assistive device for patients with neurodegenerative movement disorder: detecting and correcting pathological movement in daily activities

Project leader: Prof. Dr. Daniel Häufle

Funding institution: BW-Stiftung

ROBMIT: ROBotic Mirrored Therapy afterstroke

Project leaders: Prof. Dr. Lorenzo Masia (Heidelberg University), in collaboration with Prof. Dr. Ulf Ziemann and Prof. Dr. Daniel Häufle

Funding institution: ForTra gGmbH für Forschungstransfer der Else Kröner-Fresenius-Stiftung

PhD Theses

(Completed in 2023)

Fabio Izzi

Tunable Mechanical Damping in Fast Perturbed Locomotion: Biomechanical Simulations and Biorobotic Applications

Supervisor: Prof. Dr. Daniel Häufle

MD Theses

(Completed in 2023)

Felix Jung

Der Einfluss der Handgelenkstellung auf muskuläre Ermüdung der Unterarmflexoren - eine explorative Untersuchung

Supervisor: Prof. Dr. Daniel Häufle

Master Theses

(Completed in 2023)

Lorenz Krause

Sim2Real transfer of muscle, torque and PD actuation in reinforcement learning context

Supervisor: Prof. Dr. Daniel Häufle

Maria Sapunaki

Modeling and Simulation of Arm Movements in MuJoCo and Quantifying Stiffness Responses to Perturbations Using Python and MATLAB

Supervisor: Prof. Dr. Daniel Häufle

Systems Neurophysiology Laboratory

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Cornelius Schwarz

SCIENTISTS/RESIDENTS

Dr. Christine Pedroarena

Dr. Arindam Bhattacharjee

In cooperation with HIH Group Martin Giese:

Dr. Alia Benali

Dr. Vishnudev Ramachandra

In cooperation with MPI-IS Stuttgart group

Prof. Dr. Metin Sitti:

Dr. Erdost Yildiz

Mertcan Han

TECHNICAL STAFF/ADMINISTRATION

Ursula Pascht

PHD / MD DOCTORAL STUDENTS

Ritu Roy Chowdhury

Emilia Gawron

Kalpana Gupta

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Yuyao Sun

Marta Vesnaver

Yuechen Zhang

MASTER/BACHELOR STUDENTS

Franziska Gekeler (GTC Rotation)

INTERSHIPS

Sara Pisini

(University Florence, Erasmus Stipend)

Third-Party Funding

ONGOING GRANTS

Psychophysics and coding of vibrotactile signals in the human fingertip-related tactile system

(DFG SCHW 577/14-3)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

Process models of associative learning and related plasticity in primary sensory cortex

(DFG SCHW 577/17-1)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

The role of the cerebello-parietal pathway in state estimation (DFG SCHW 577/21-1)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

NEW GRANTS

The nature of sensory gating – probing the function of a corticofugal loop (DFG SCHW 577/22-1)

Project leader: Prof. Dr. Cornelius Schwarz

Funding institution: German Research Foundation (DFG)

Active Perception Laboratory

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Ziad Hafed

SCIENTISTS/RESIDENTS

Dr. Fatemeh Khademi

PHD / MD DOCTORAL STUDENTS

Matthias P. Baumann

Tatiana Malevich

Marlene Mathis

Tong Zhang

Yue Yu

MASTER STUDENTS

Alice Chevrolier-Oria

Julia Greilich

Vanessa Hassenpflug

Valerie Kalt

Carlotta Trottenberg

Wenbin Wu

Third-Party Funding

ONGOING GRANTS

SPP 2205 (Evolutionary Optimisation of Neuronal Processing): Saccadic suppression: from zebrafish to primates

Project leaders: Prof. Dr. Ziad Hafed,

Jun. Prof. Aristides Arrenberg

Funding institution: German Research Foundation (DFG)

BO5681/1-1: Visual functions of the primate superior colliculus

Project leader: Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

SFB 1233 (Robust Vision) – project 11: Impacts of eye movements on visual processing: from retina to perception

Project leaders: Prof. Dr. Ziad Hafed, Dr. Katrin Franke

Funding institution: German Research Foundation (DFG)

BU4031/1-1: Sensory races between motor control brain areas for coordinating how to react to the outside world

Project leaders: Dr. Antimo Buonocore, Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

NEW GRANTS

HA6749/3-2: Saccadic suppression: from zebrafish to primates

Project leader: Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

HA6749/11-1: Peripheral-to-foveal cortico-collicular processing of visual information across eye movements

Project leader: Prof. Dr. Ziad Hafed

Funding institution: German Research Foundation (DFG)

MD Theses

(Completed in 2023)

Marlene Mathis

Einfluss binokularer Augenbewegungen auf das Stereosehen

Supervisor: Prof. Dr. Ziad Hafed

Master Theses

(Completed in 2023)

Julia Greilich

Dependence of peri-microsaccadic perceptual suppression on the image properties

Supervisor: Prof. Dr. Ziad Hafed

Conferences & Workshops

11th CIN-NIPS-Asia Pacific Symposium on Systems Neuroscience

University Hospital Tübingen, 10-11 March 2023

Organizer: Prof. Dr. Ziad Hafed

Section for Neuropsychology

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

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Dr. Tamara Matuz

TECHNICAL STAFF/ADMINISTRATION

Ina Baumeister

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Stefan Smaczny

Britta Stammer

Sofia Wöhrstein

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Dana Babin

Samuel Tobias Böhm Gonzalez

Jacob Clausen

Joel C. Marques

MASTER STUDENTS

Georgios Angelou

INTERNSHIPS

Sara Abdou

Kirsit Isabelle Brandes

Leon Hager

Lilli Rötzer

Clinical Studies

Development and evaluation of a new device for the treatment of pusher syndrome

Investigators: Sofia Wöhrstein, Prof. Dr. Dr. Hans-Otto Karnath

Spatial neglect therapy with the augmented reality app

“Negami” for active exploration training – A randomized controlled trial on 20 stroke patients with spatial neglect

Investigators: Dr. Britta Stammer, Kathrin Flammer,

Prof. Dr. Thomas Schuster, Marian Lambert, Oliver Neumann,

Michael Lux, Dr. Tamara Matuz,

Prof Dr. Dr. Hans-Otto Karnath

Negami: An Augmented Reality App for the Treatment of Spatial Neglect After Stroke

Investigators: Dr. Britta Stammer, Kathrin Flammer,

Prof Dr. Thomas Schuster, Marian Lambert,

Prof Dr. Dr. Hans-Otto Karnath

Third-Party Funding

ONGOING GRANTS

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)

Augmented Reality - Eine neue Technik zur Behandlung räumlicher Explorations- und Aufmerksamkeitsstörungen nach Schlaganfall

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

Funding institution: Hector Stiftung II GmbH, Weinheim

NEW GRANTS

Negami - Weiterentwicklung

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

Funding institution: Hector Stiftung II GmbH, Weinheim

Talking Numbers – Einflüsse der Sprache auf die Zahlenverarbeitung im Lauf der Lebensspanne

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

Funding institution: German Research Foundation (DFG)

MD Theses

(Completed in 2023)

Dana Babin

Implicit processing of contralesional stimuli and ipsilesional oculomotor capture in neglect

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

Azam Shavarouhi Farahani

Disturbed body size perception: acute versus chronic stroke patients with hemiparesis

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

Britta Stammler

Augmented Reality- Eine neue Technik zur Behandlung räumlicher Explorations- und Aufmerksamkeitsstörungen nach Schlaganfall

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

Master Theses

(Completed in 2023)

Georgios Angelou

White matter damage and related cognitive deficits in Multiple Sclerosis

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

Translational Imaging of Cortical Microstructure

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Esther Kühn

SCIENTISTS

Shreyas Indurkar
Dr. Shi Ja Teo
Dr. Cornelius Kronlage
Peng Liu
Wenyue Liu
Niloofar Mokhtari
Dr. Susanne Stoll

TECHNICAL STAFF/ADMINISTRATION

Fotini Scherer

Third-Party Funding

ONGOING GRANTS

EU Horizon 2020 ERC Starting Grant: Body Memory

Project leader: Prof. Dr. Esther Kühn

Funding institution: EU

NEW GRANTS

Clinical Scientist (MINT-CS) Stipendium: Use Multimodal 9.4T Ultra-High Field MRI to Detect FCDs in 'MRI-negative' Focal Epilepsy Patients

Clinical Scientist: Dr. C. Kronlage

Hosts: Prof. Dr. Esther Kühn, Prof. Dr. Holger Lerche

Funding institution: UKT

Awards

Christoph Knoll

MED-Promotionsstipendium

(awarded from Medical Fakultät Otto-von-Guericke University Magdeburg)

Jonas Marquardt

AAIC Best Student Poster Award

(awarded by Alzheimer's Association)

Translational Genomics of Neurodegenerative Diseases

Clinical and Scientific Staff

HEAD OF THE RESEARCH DIVISION

Prof. Dr. Matthis Synofzik

SCIENTISTS/RESIDENTS

Dr. Lukas Beichert
 Dr. Danique Beijer
 Dr. Felix Gsell (together with RG Lerche)
 Dr. David Mengel
 Dr. Dr. Andreas Traschütz
 Dr. Carlo Wilke (until 06/23)

TECHNICAL STAFF/ADMINISTRATION

Lisa Graf, M.Sc.
 Tanja Heger
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 Doreen Müller
 Selina Reich, M.Sc.
 Madeleine Wacker, M.Sc.

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 Clemens Lochmann, M.Sc.

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Mario Auch
 Merit Bade
 Theresa Beyme
 Julia Göddel-Sand
 Dominik Hermle
 Monika Mosler
 Julia Maren Ott
 Ester Soter

MASTER STUDENTS

Aline-Maria Mack

Clinical Studies

PROSPAX: an integrated multimodal progression chart in spastic ataxias

Investigators: Prof. Dr. Matthis Synofzik, PD Dr. Rebecca Schüle, Dr. Dr. Andreas Traschütz, Dr. Christoph Kessler

GENFI - Genetic Frontotemporal dementia Initiative: a multicentre longitudinal progression study in subjects at risk of genetic FTD

Investigators: Prof. Jon Rohrer (UCL), Prof. Dr. Matthis Synofzik et al.

PREPARE GENESIS- a global ataxia NGS consortium for collaborative gene-identification in hereditary ataxias

Investigators: Prof. Stephan Zuchner (Miami), Prof. Dr. Matthis Synofzik

Autosomal-recessive and Early onset ataxia: Genetic basis and natural history (ARCA/EOA)

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

Identifying and validating digital-motor progression biomarkers for hereditary ataxias: body-worn sensors (APDM) and upper limb sensors (q-motor)

Investigators: Prof. Dr. Matthis Synofzik, Dr. Winfried Ilg, Dr. Andreas Traschütz

Fluid biomarkers as progression and treatment-response biomarkers in Frontotemporal Dementia, Alzheimer's disease, and degenerative ataxias

Investigators: Prof. Dr. Matthis Synofzik, Dr. David Mengel, Dr. Carlo Wilke

Solving the unsolved Rare Diseases (Solve-RD)

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

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

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

Translational Genomics of Neurodegenerative Diseases

Clinical Studies

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

Investigators: Prof. Dr. Ludger Schöls, Dr. Holger Hengel, 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

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, PD Dr. Inga Liepelt-Scarfone, Prof. Dr. Matthias Synofzik, Dr. Christoph Kessler, Dr. Carlo Wilke

RFC1 Natural History Study (RFC1-NHS)

Investigators: Prof. Dr. Matthias Synofzik, Dr. Dr. Andreas Traschütz

A Pharmacokinetics and Safety Study of BIIB132 in Adults with Spinocerebellar Ataxia 3 (Phase 1 trial)

Sponsor: Biogen

Site investigator: Prof. Dr. Matthias Synofzik

Study of WVE-004 in Patients With C9orf72-associated Amyotrophic Lateral Sclerosis (ALS) or Frontotemporal Dementia (FTD) (FOCUS-C9) (Phase 1b/2a trial)

Sponsor: WAVE

Site investigator: Prof. Dr. Matthias Synofzik

1 Mutation 1 Medicine: an individualized n-of-1 ASO treatment of a patient with Ataxia teleangiectasia (experimenteller individueller Heilversuch)

Physicians Prof. Dr. Matthias Synofzik, Dr. Andrea Bevot, Dr. Holm Graessner, Prof Dr. Rebecca Schüle

Third-Party Funding

ONGOING GRANTS

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

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

Project leader: Prof. Dr. Matthias Synofzik

Funding institution: Stiftung Hoffnung

GENFI-prox: Defining measures of proximity to symptom onset in the GENetic Frontotemporal dementia Initiative

Project leader: Prof. Dr. Matthias Synofzik

Funding institution: European Union JPND program/BMBF

PROSPAX: an integrated multimodal progression chart in spastic ataxias (EJP consortium)

Project leaders: Prof. Dr. Matthias Synofzik,

PD Dr. Rebecca Schüle

Funding institution: European Union EJP RD program/DFG

Neurofilament Light Chain as an individual stratification and treatment-response blood biomarker for SCA3

Project leader: Prof. Dr. Matthias Synofzik

Funding institution: Zentrum für Seltene Erkrankungen, Tübingen

Designing a toolbox of paradigmatic treatments for a targeted molecular medicine approach to autosomal-recessive ataxias (TREAT-ARCA)

Project leaders: Prof. Dr. Matthias Synofzik,

Prof. Dr. Helene Puccio (Lyon)

Funding institution: European Union EJP RD program/BMBF

**Else Kröner Forschungskolleg Tübingen:
Gen, Mechanismus, Therapie (PRECISE.net)**

*Project leaders: Prof. Dr. Matthis Synofzik,
PD Dr. Rebecca Schüle, Prof Dr. Holger Lerche*
Funding institution: Else-Kröner Fresenius Stiftung

Charting the neurodevelopmental stage of ARSACS

(NeurodevARSACS): A cross-species longitudinal characterization of the early molecular changes in the brain, CSF and blood

Project leaders: Prof. Dr. Matthis Synofzik, Dr. David Mengel
Funding institution: Fondation de l'Ataxie Charlevoix, Saguenay

Klinische und subklinische neuronale Schädigung bei Long-COVID: Stratifizierung, Prädiktion und Verlaufs-Monitoring durch ultrasensitive blutbasierte Biomarker (NeuroLongCOV)

Project leaders: Prof. Dr. Matthis Synofzik, Dr. David Mengel
Funding institution: Ministerium für Wissenschaft, Forschung und Kunst, Baden-Württemberg

EVIDENCE-RND _EXTENSION - Creating robust evidence for longitudinal progression changes and treatment effects in ultra-rare neurological diseases: the case of multisystemic autosomal-recessive ataxias

*Project leaders: Prof. Dr. Matthis Synofzik,
PD Dr. Rebecca Schüle*
Funding institution: European Union EJP RD program

Conferences & Workshops

PROSPAX Annual Meeting 2023

Istanbul, 22-23 June 2023
*Scientific coordinators: Prof. Dr. Matthis Synofzik,
Prof. Dr. Rebecca Schüle*

Ataxia Global Initiative 2023

Global web-based conference, 15-16 November 2023
*Scientific coordinators: Prof. Dr. Matthis Synofzik,
Prof. Dr. Thomas Klockgether, Dr. Holm Graessner*

Guest Researcher

Dr. Christoph Linnemann

University of Basel
Host: Prof. Dr. Matthis Synofzik

Cognitive Neurology Laboratory

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Hans-Peter Thier

SCIENTISTS/RESIDENTS

Dr. Peter Dicke
Dr. Dr. Silvia Spadacenta

TECHNICAL STAFF/ADMINISTRATION

Dr. Friedemann Bunjes
Dagmar Heller-Schmerold

PHD DOCTORAL STUDENTS

Ian Chong
Marius Görner
Junja Inoue
Lilei Peng (until 09/2023)
Masih Shafiei
Ramona Siebert

RESEARCH ASSISTANTS/TRAINEES

Gabriele Mascia
Constanza Rossainz Baez Bravo

Clinical Studies

‘Gaze Following’-Störungen bei Autismus-Spektrum- erkrankungen

*Investigators: Manuel Roth, Prof. Dr. Dirk Wildgruber,
Prof. Dr. Hans-Peter Thier*

Third-Party Funding

ONGOING GRANTS

Using marmosets to study the cognitive control of joint attention (TH 425/17-1)

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

PhD Theses

(Completed in 2023)

Shengjun Wen

On the functional architecture of the F5 mirror neuron system

Supervisor: Prof. Dr. Hans-Peter Thier

Neuropsychology of Action

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

PD Dr. Marc Himmelbach

MD DOCTORAL STUDENTS

Luise Engelmann
Leonie-Isabelle Reinermann

Clinical Studies

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*

Third-Party Funding

ONGOING GRANTS

**PROFILplus: flexMath –
Einführung modular kombinierbarer, videobasierter
Lehr-Lern-Einheiten zur studiengangübergreifenden
Vermittlung mathematischer Kenntnisse und Fertigkeiten**

Project leader: PD Dr. Marc Himmelbach

Funding institution: Medical Faculty, University of Tübingen

Oculomotor Laboratory

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Prof. Dr. Uwe Ilg

MD DOCTORAL STUDENTS

Saskia Rabe

BACHELOR STUDENTS

Clara Bischof
Philipp Dennenmoser
Julia Grieb
Lea Henes
Kerstin Jacobson
Jana Kimmich

BUNDESFREIWILLINGENDIENST

Katharina Hipp (since 09/2023)
Ömer Öztürk

Third-Party Funding

ONGOING GRANTS

Pupils Lab for Neuroscience
Project leader: Prof. Dr. Uwe Ilg
Funding institution: Adolf Leuze Stiftung

Master Theses

(Completed in 2023)

Julia Grieb

**Wirkung des Schülerlabor Neurowissenschaften:
Einfluss eines Besuchs auf das Verständnis von Nature of
Science und auf das Fachwissen über die Psychophysik des
Sehens**

Supervisor: Prof. Dr. Uwe Ilg

Clara Bischof

**Einfluss eines Besuchs im Schülerlabor auf das Verständnis
über Nature of Science und das Wissensgebiet der Psycho-
physik Hören**

Supervisor: Prof. Dr. Uwe Ilg

Lea Henes

**Einblicke in die Okulomotorik und Pupillomotorik bei Ent-
scheidungssituationen im Fußball**

Supervisor: Prof. Dr. Uwe Ilg

Philipp Dennenmoser

Augenbewegungen und Entscheidungsfindung im Fußball

Supervisor: Prof. Dr. Uwe Ilg

Bachelor Theses

(Completed in 2023)

Kerstin Jacobson

Position of spotlight of attention

Supervisor: Prof. Dr. Uwe Ilg

Jana Kimmich

Naso-temporale Asymmetrien bei Blickbewegungen

Supervisor: Prof. Dr. Uwe Ilg

Human Intracranial Cognitive Neurophysiology

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Dr. Dr. Randolph Helfrich

SCIENTISTS/RESIDENTS

Dr. Michael Hahn
Dr. Janna Lendner
Dr. Frank van Schalkwijk
Dr. Jonas Terlau

PHD DOCTORAL STUDENTS

Neha Binish
Laura Heidiri (from 11/2023)
Gabriela Iwama
Mariana Lomeli
Jan Martini (née Weber)
Isabel Raposo

MD DOCTORAL STUDENTS

Markus Kopf
Victoria Mair

MASTER STUDENTS

Matthias Anwander
Laura Heidiri (until 10/2023)

Third-Party Funding

ONGOING GRANTS

DFG Emmy Noether Program: Rhythmic building blocks of attention

Project leader: Dr. Dr. Randolph Helfrich

Funding institution: German Research Foundation (DFG)

Hertie Network of Excellence in Clinical Neuroscience

Project leader: Dr. Dr. Randolph Helfrich

Funding institution: Hertie Foundation

Baden Württemberg Foundation – Postdoctoral Fellowship

Project leader: Dr. Dr. Randolph Helfrich

Funding institution: Baden-Württemberg Foundation

Junior Research Group Plus

Project leader: Dr. Dr. Randolph Helfrich

Funding institution: Medical Faculty, University of Tübingen

Cooperation funds Tübingen-Nottingham Joint Research Project

Project leaders: Dr. Dr. Randolph Helfrich, Dr. Nicholas Myers

Funding institution: University of Nottingham and the University of Tübingen (Excellence Strategy of the German Federal and State Governments)

ClinbrAln: Künstliche Intelligenz für Klinische Hirnforschung (Project A2)

Project leaders: Dr. Dr. Randolph Helfrich, Dr. Stefanie Liebe,

Prof. Dr. Zeynep Akata

Funding institution: Else Kröner-Fresenius-Stiftung

Jung Career Advancement Award in Medicine

Project leaders: Dr. Dr. Randolph Helfrich

Funding institution: Ernst Jung Foundation

Third-Party Funding

NEW GRANTS

Walter Benjamin Fellowship

Project leaders: Dr. Frank van Schalkwijk,

Dr. Dr. Randolph Helfrich

Funding institution: German Research Foundation (DFG)

PRIME International Mobility Fellowship

Project leaders: Dr. Michael Hahn, Dr. Dr. Randolph Helfrich

Funding institution: German Academic Exchange Service (DAAD)

State Postgraduate Fellowship

Project leaders: Gabriela Iwama, Dr. Dr. Randolph Helfrich

Funding institution: Landesgraduiertenförderung Baden-Württemberg

Seed Funding Tübingen-Nottingham Joint Research Project

Project leaders: Dr. Dr. Randolph Helfrich, Dr. Nicholas Myers

Funding institutions: University of Nottingham and the University of Tübingen (Excellence Strategy of the German Federal and State Governments)

Master Thesis

(Completed in 2023)

Laura Heidiri

Aperiodic activity tracks seizure progression and propagation

Supervisor: Dr. Dr. Randolph Helfrich

Molecular Brain Development

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Dr. Simone Mayer

SCIENTISTS/RESIDENTS

Theresa Kagermeier

Kseniia Sarieva

Zeynep Yentür

TECHNICAL STAFF/ADMINISTRATION

Katharina Becker

Elisabeth Gustafsson

STUDENT RESEARCH ASSISTANTS

Ece Begüm Aksoy

Ann-Kathrin Grotegerd

Christina Kulka

Paula Verde Puerto

Awards

Dr. Simone Mayer

Eva Luise Köhler Prize

Eva Luise and Horst Köhler Foundation

Third-Party Funding

ONGOING GRANTS

Stabilizing and destabilizing processes of change – Insights from brain and software development

Project leaders: Dr. Simone Mayer,

Dr. Christian Mahringer (Stuttgart University)

Funding institution: Heidelberg Academy of Sciences and
Humanities, State of Baden-Württemberg

Characterization of TSEN54 function in human brain development and in pontocerebellar hypoplasia

Project leader: Theresa Kagermeier

Funding institution: State Postgraduate Fellowship

Programme, University of Tübingen,

State of Baden-Württemberg

HTR2A receptor signaling in human neural stem cells

Project leader: Dr. Simone Mayer

Funding institution: Daimler and Benz Foundation,
Postdoctoral Fellowship

PCH2cure: revealing disease mechanisms to cure PCH2

Project leader: Dr. Simone Mayer

Funding institution: Chan Zuckerberg Initiative (CZI) -

Patient-Partnered Collaborations for Rare

Neurodegenerative Disease

Add-on Fellowship for Interdisciplinary Life Science

Project leader: Kseniia Sarieva

Funding institution: Joachim Herz Foundation

Bachelor Thesis

(Completed in 2023)

Justina Jüttner

Determining cellular mechanisms of PCH2a using human iPSC-derived cerebellar cells

Supervisor: Dr. Simone Mayer

Neuron-Glia Interactions

Clinical and Scientific Staff

HEAD OF THE RESEARCH GROUP

Dr. Nicolas Snaidero

SCIENTISTS /

Shiladytia Mitra

PHD DOCTORAL STUDENTS

Shahrzad Askari
(co-supervised with Prof. Misgeld, TUM)
Katharina Eichenseer
(co-supervised with Prof. Misgeld, TUM)
Laura Flüter
Alexander Goldbrunner
Zi Huang

MD DOCTORAL / MASTER / BACHELOR STUDENTS

Delia Atitienei
Katrin Fix
Franziska Gekeleer
Luisa Handel
Hannes Juretzka

Third-Party Funding

ONGOING GRANTS

Fast scanning two photon microscope with confocal unit for intravital and reflectance imaging (DFG Art. 91b GG)
Responsible spokesperson: Dr. Nicolas Snaidero
Funding institution: German Research Foundation (DFG)

Hertie Network of Excellence in Clinical Neuroscience
Project leader: Dr. Nicolas Snaidero
Funding institution: Hertie Foundation

NEW GRANTS

Therapeutic effects of focal cortical myelin modulation on neuronal function and Integrity
Project leader: Dr. Nicolas Snaidero
Funding institution: Else Kröner-Fresenius-Stiftung



HIH Management

Management Staff

ADMINISTRATIVE DIRECTOR

Dr. Astrid Proksch, Master of Management (MZSG)

ADMINISTRATIVE ASSISTANCE

Sabine Steimle

CONTROLLING

Anja Reiber

COMMUNICATION

Dr. Mareike Kardinal (Head of Communication)
Silke Dutz (Provisional Head of Communication)
Natalie Adler (Student Assistant)
Ladina Müller (Student Assistant)





Publications and Student Training in 2023

List of Publications in 2023

(In alphabetical order)

Peer-Reviewed Articles

- Aartsma-Rus A, van Roon-Mom W, Lauffer M, Siezen C, Duijndam B, Coenen-de Roo T, **Schüle R, Synofzik M**, Graessner H (2023) Development of tailored splice-switching oligonucleotides for progressive brain disorders in Europe: development, regulation, and implementation considerations. *Rna* 29:446-54
- Amedick LB, **Martin P**, Beschle J, Strölin M, Wilke M, Wolf N, Pouwels P, Hagberg G, Klose U, Naegel T, Kraegeloh-Mann I, Groeschel S (2023) Clinical Significance of Diffusion Tensor Imaging in Metachromatic Leukodystrophy. *Neuropediatrics* 54:244-52
- Araz M**, Weidner S, Izzi F, Badri-Sprowitz A, Siebert T, **Haeufle DFB** (2023) Muscle reflex response to perturbations in locomotion: In vitro experiments and simulations with realistic boundary conditions. *Frontiers in Bioengineering and Biotechnology* 11:1150170
- Arndts K, **Kegele J**, Massarani AS, Ritter M, Wagner T, Pfarr K, Lämmer C, Dörmann P, Peisker H, Menche D, Al-Bahra M, da Costa CP, Schmutzhard E, Matuja W, Hoerauf A, Layland-Heni LE, Winkler AS (2023) Epilepsy and nodding syndrome in association with an *Onchocerca volvulus* infection drive distinct immune profile patterns. *PLoS Neglected Tropical Diseases* 17:e0011503
- Ashrafi MR, Mohammadi P, Tavasoli AR, Heidari M, Hosseinpour S, Rasulinejad M, Rohani M, Akbari MG, Malamiri RA, Badv RS, Fathi D, Dehnavi AZ, Savad S, Rabbani A, **Synofzik M**, Mahdih N, Rezaei Z (2023) Clinical and Molecular Findings of Autosomal Recessive Spastic Ataxia of Charlevoix Saguenay: an Iranian Case Series Expanding the Genetic and Neuroimaging Spectra. *Cerebellum* 22:640-50
- Ashton C, Indelicato E, Pellerin D, Clément G, Danzi MC, Dicaire MJ, Bonnet C, Houlden H, Züchner S, **Synofzik M**, Lamont PJ, Renaud M, Boesch S, Brais B (2023) Spinocerebellar ataxia 27B: episodic symptoms and acetazolamide response in 34 patients. *Brain Communications* 5:fcad239
- Ates F, **Marquetand J**, Zimmer M (2023) Detecting age-related changes in skeletal muscle mechanics using ultrasound shear wave elastography. *Scientific Reports* 13:20062
- Avi B, Nili K, Hila N, Enrico C, Martin G, Tamar F (2023) Human Arm Redundancy - A New Approach for the Inverse Kinematics Problem. *bioRxiv* 2023.02.20.528995
- Aydin E, Cebo M, Mielnik J, Richter H, Schüle R, Sievers-Engler A, Mlynarz P, Lämmerhofer M (2023) UHPLC-ESI-MS/MS assay for quantification of endocannabinoids in cerebrospinal fluid using surrogate calibrant and surrogate matrix approaches. *Journal of Pharmaceutical and Biomedical Analysis* 222:13
- Baden P, Perez MJ, Raji H, Bertoli F, Kalb S, Illescas M, Spanos F, Giuliano C, Calogero AM, Oldrati M, Hebestreit H, Cappelletti G, **Brockmann K, Gasser T**, Schapira AHV, Ugalde C, **Deleidi M** (2023) Glucocerebrosidase is imported into mitochondria and preserves complex I integrity and energy metabolism. *Nature Communications* 14:1930
- Bai Y, Belardinelli P, Thoennes C, Blum C, Baur D, Laichinger K, Lindig T, Ziemann U, Mengel A** (2023) Cortical reactivity to transcranial magnetic stimulation predicts risk of post-stroke delirium. *Clinical Neurophysiology* 148:97-108
- Bai Y, Xuan J, Jia S, **Ziemann U** (2023) TMS of parietal and occipital cortex locked to spontaneous transient large-scale brain states enhances natural oscillations in EEG. *Brain Stimulation* 16:1588-97
- Ballarini T, Kuhn E, Roske S, Altenstein S, Bartels C, Buchholz F, Buerger K, Dechent P, Dobisch L, Ewers M, Fliessbach K, Freiesleben SD, Frommann I, Gabelin T, Glanz W, Gorss D, Haynes JD, Incesoy EI, Janowitz D, Kilimann I, Kleineidam L, Kobeleva X, **Laske C**, Lohse A, Maier F, Munk MH, Perneczky R, Peters O, Priller J, Rauchmann BS, Roy N, Scheffler K, Schneider A, Schott BH, Spottke A, Spruth EJ, Teipel S, Wiltfang J, Wolfsgruber S, Duzel E, Jessen F, Wagner M, group Ds (2023) Linking early-life bilingualism and cognitive advantage in older adulthood. *Neurobiology of Aging* 124:18-28
- Baumann MP*, Bogadhi AR*, Denninger AF, Hafed ZM** (2023) Sensory tuning in neuronal movement commands. *Proceedings of the National Academy of Sciences of the USA* 120:e2305759120 [*contributed equally]

- Behling F**, Fodi C, **Skardelly M**, Paulsen F, **Tabatabai G**, Honegger J, Tatagiba M, Schittenhelm J (2023) The prognostic role of the immunohistochemical expression of S100 in meningiomas. *Journal of Cancer Research and Clinical Oncology* 149:2975-85
- Behling F**, **Passlack P**, Fodi CK, Hielscher T, Schittenhelm J, Nassiri F, Wang JZ, Zadeh G, **Tabatabai G**, Sahm F (2023) Loss of H3K27me3 in meningiomas: an independent marker for CNS WHO grade 2? *Neuro-Oncology Advances* 5:vdad112
- Belger J, Poppe S, **Karnath H-O**, Villringer A, Thöne-Otto A (2023) The Application of Immersive Virtual Reality and Machine Learning for the Assessment of Unilateral Spatial Neglect. *PRESENCE: Virtual and Augmented Reality* 32:3-22
- Benali A**, **Ramachandra V**, Oeltermann A, Schwarz C, **Giese M** (2023) Is it possible to separate intra-cortical evoked neural dynamics from peripheral evoked potentials during transcranial magnetic stimulation? *Brain Stimulation* 16:162
- Berezhnoy G, **Laske C**, Trautwein C (2023) Metabolomic profiling of CSF and blood serum elucidates general and sex-specific patterns for mild cognitive impairment and Alzheimer's disease patients. *Frontiers in Aging Neuroscience* 15:1219718
- Bernal J, Schreiber S, Menze I, Ostendorf A, Pfister M, Geisendorfer J, Nemali A, Maass A, Yakupov R, Peters O, Preis L, Schneider L, Herrera AL, Priller J, Spruth EJ, Altenstein S, Schneider A, Fließbach K, Wiltfang J, Schott BH, Rostamzadeh A, Glanz W, Buerger K, Janowitz D, Ewers M, Perneczky R, Rauchmann BS, Teipel S, Kilimann I, **Laske C**, Munk MH, Spottke A, Roy N, Dobisch L, Dechent P, Scheffler K, Hetzer S, Wolfsgruber S, Kleindam L, Schmid M, Berger M, Jessen F, Wirth M, Duzel E, Ziegler G (2023) Arterial hypertension and beta-amyloid accumulation have spatially overlapping effects on posterior white matter hyperintensity volume: a cross-sectional study. *Alzheimers Research & Therapy* 15:97
- Bocchetta M, Todd EG, Bouzigues A, Cash DM, Nicholas JM, Convery RS, Russell LL, Thomas DL, Malone IB, Iglesias JE, van Swieten JC, Jiskoot LC, Seelaar H, Borroni B, Galimberti D, Sanchez-Valle R, Laforce R, Moreno F, **Synofzik M**, Graff C, Masellis M, Tartaglia MC, Rowe JB, Vandenberghe R, Finger E, Tagliavini F, de Mendonça A, Santana I, Butler CR, Ducharme S, Gerhard A, Danek A, Levin J, Otto M, Sorbi S, Le Ber I, Pasquier F, Rohrer JD, Genetic Frontotemporal D (2023) Structural MRI predicts clinical progression in presymptomatic genetic frontotemporal dementia: findings from the GENetic Frontotemporal dementia Initiative cohort. *Brain Communications* 5:19
- Bode M, Sulzer P, **Schulte C**, Becker S, **Brockmann K**, Elben S, Folkerts AK, Ophey A, Schlenstedt C, Witt K, Wojtecki L, Evers J, Maetzler W, Kalbe E, **Liepert-Scarfone I** (2023) Multidomain cognitive training increases physical activity in people with Parkinson's disease with mild cognitive impairment. *Parkinsonism & Related Disorders* 113:8
- Bodensohn R, Fleischmann DF, Maier SH, Anagnostatou V, Garry S, Nitschmann A, Buttner M, Mucke J, Schonecker S, Unger K, Hoffmann E, Paulsen F, Thorwarth D, Holzgreve A, Albert NL, Corradini S, **Tabatabai G**, Belka C, Niyazi M (2024) Dosimetric feasibility analysis and presentation of an isotoxic dose-escalated radiation therapy concept for glioblastoma used in the PRIDE trial (NOA-28; ARO-2022-12). *Clinical and Translational Radiation Oncology* 45:100706
- Bogadhi AR**, **Hafed ZM** (2023) Express detection of visual objects by primate superior colliculus neurons. *Scientific Reports* 13:21730
- Bognar A, Raman R, **Taubert N**, Zafirova Y, Li B, **Giese M**, De Gelder B, Vogels R (2023) The contribution of dynamics to macaque body and face patch responses. *Neuroimage* 269:119907
- Bonnet C, Pellerin D, Roth V, Clément G, Wandzel M, Lambert L, Frismand S, Douarinou M, Grosset A, Bekkour I, Weber F, Girardier F, Robin C, Cacciato S, Bronner M, Pourié C, Dreumont N, Puisieux S, Iruzubieta P, Dicaire MJ, Evoy F, Rioux MF, Hocquel A, La Piana R, **Synofzik M**, Houlden H, Danzi MC, Zuchner S, Brais B, Renaud M (2023) Optimized testing strategy for the diagnosis of GAA-FGF14 ataxia/spinocerebellar ataxia 27B. *Scientific Reports* 13:9737

Boothman I, Clayton LM, McCormack M, Driscoll AM, Stevelink R, Moloney P, Krause R, Kunz WS, Diehl S, O'Brien TJ, Sills GJ, de Haan GJ, Zara F, Koeleman BP, Depondt C, Marson AG, Stefansson H, Stefansson K, Craig J, Johnson MR, Striano P, **Lerche H**, Furney SJ, Delanty N, Sisodiya SM, Cavalleri GL, Epi PGXC (2023) Testing for pharmacogenomic predictors of ppRNFL thinning in individuals exposed to vigabatrin. *Frontiers in Neuroscience* 17:1156362

Bosselmann C, Borggräfe I, Fazeli W, Klein KM, Kluger GJ, Müller-Schlüter K, Neubauer BA, von Spiczak S, von Stülpnagel CS, Weber Y, Lemke JR, Wolking S, Krey I (2023) Genetic diagnostics in epilepsies: recommendations of the Commission Epilepsy and Genetics of German Society of Epileptology (German ILAE Chapter). *Clinical Epileptology* 36:224-37

Bosselmann CM, Hedrich UBS, **Lerche H**, Pfeifer N (2023) Predicting functional effects of ion channel variants using new phenotypic machine learning methods. *PLoS Computational Biology* 19:16

Bräuer S, Rossi M, Sajapin J, Henle T, **Gasser T**, Parchi P, **Brockmann K**, Falkenburger BH (2023) Kinetic parameters of alpha-synuclein seed amplification assay correlate with cognitive impairment in patients with Lewy body disorders. *Acta Neuropathologica Communications* 11:162

Breit S, Milosevic L, Naros G, **Cebi I**, **Weiss D**, Gharabaghi A (2023) Structural-Functional Correlates of Response to Pedunculopontine Stimulation in a Randomized Clinical Trial for Axial Symptoms of Parkinson's Disease. *Journal of Parkinson's Disease* 13:563-73

Breitmeyer R, Vogel S, Heider J, Hartmann SM, Wüst R, Keller AL, Binner A, **Fitzgerald JC**, Fallgatter AJ, Volkmer H (2023) Regulation of synaptic connectivity in schizophrenia spectrum by mutual neuron-microglia interaction. *Communications Biology* 6:16

Breu MS, Ramezanpour H, **Dicke PW**, **Thier P** (2023) A frontoparietal network for volitional control of gaze following. *European Journal of Neuroscience* 57:1723-35

Brosseron F, Maass A, Kleineidam L, Ravichandran KA, Kolbe CC, Wolfsgruber S, Santarelli F, **Hasler LM**, McManus R, Ising C, Roske S, Peters O, Cosma NC, Schneider LS, Wang X, Priller J, Spruth EJ, Altenstein S, Schneider A, Fliessbach K, Wiltfang J, Schott BH, Buerger K, Janowitz D, Dichgans M, Perneczky R, Rauchmann BS, Teipel S, Kilimann I, Gorss D, **Laske C**, Munk MH, Duzel E, Yakupow R, Dobisch L, Metzger CD, Glanz W, Ewers M, Dechent P, Haynes JD, Scheffler K, Roy N, Rostamzadeh A, Spottke A, Ramirez A, **Mengel D**, **Synofzik M**, **Jucker M**, Latz E, Jessen F, Wagner M, Heneka MT, DELCODE study group (2023) Serum IL-6, sAXL, and YKL-40 as systemic correlates of reduced brain structure and function in Alzheimer's disease: results from the DELCODE study. *Alzheimers Research & Therapy* 15:13

Buchholz M, Weber N, Borel S, Sayah S, Xie F, Schulz JB, Reetz K, Boesch S, Klopstock T, Karin I, **Schöls L**, Grobe-Einsler M, Klockgether T, Davies EH, Schmeder M, Nadke A, Michalowsky B (2023) Patient-reported, health economic and psychosocial outcomes in patients with Friedreich ataxia (PROFA): protocol of an observational study using momentary data assessments via mobile health app. *BMJ Open* 13:e075736

Buonocore A, **Hafed ZM** (2023) The inevitability of visual interruption. *Journal of Neurophysiology* 130:225-37

Bussy A, Levy JP, Best T, Patel R, Cupo L, Van Langenhove T, Nielsen JE, Pijnenburg Y, Waldö ML, Remes AM, Schroeter ML, Santana I, Pasquier F, Otto M, Danek A, Levin J, Le Ber I, Vandenberghe R, **Synofzik M**, Moreno F, de Mendonça A, Sanchez-Valle R, Laforce R, Langheinrich T, Gerhard A, Graff C, Butler CR, Sorbi S, Jiskoot L, Seelaar H, van Swieten JC, Finger E, Tartaglia MC, Masellis M, Tiraboschi P, Galimberti D, Borroni B, Rowe JB, Bocchetta M, Rohrer JD, Devenyi GA, Chakravarty MM, Ducharme S, Frontotemporal GE (2023) Cerebellar and subcortical atrophy contribute to psychiatric symptoms in frontotemporal dementia. *Human Brain Mapping* 44:2684-700

Bux J, Sen NE, Klink IM, **Hauser S**, **Synofzik M**, **Schöls L**, Auburger G, Riess O, Hübener-Schmid J (2023) TR-FRET-Based Immunoassay to Measure Ataxin-2 as a Target Engagement Marker in Spinocerebellar Ataxia Type 2. *Molecular Neurobiology* 60:3553-67

- Cabaraux P, Agrawal SK, Cai HY, Calabro RS, Carlo C, Loic D, Sarah D, Habas C, Horn AKE, Ilg W, Louis ED, Mitoma H, Monaco V, Petracca M, Ranavolo A, Rao AK, Ruggieri S, Schirinzi T, Serrao M, Summa S, Strupp M, Surgent O, **Synofzik M**, Tao S, Terasi H, Torres-Russotto D, Travers B, Roper JA, Manto M (2023) Consensus Paper: Ataxic Gait. *Cerebellum* 22:394-430
- Casagrande M, Steinhorst NA, Dippel SK, Kuck F, Grohmann C, Spitzer MS, **Poli S**, Feltgen N, Schultheiss M (2023) Central retinal artery occlusion - detection score. *Frontiers in Medicine* 10:1129002
- Celli R, Striano P, Citraro R, Di Menna L, Cannella M, Imbriglio T, **Koko M**, Euro Epinomics-Cogie C, De Sarro G, Monn JA, Battaglia G, van Luijckelaar G, Nicoletti F, Russo E, Leo A (2023) mGlu3 Metabotropic Glutamate Receptors as a Target for the Treatment of Absence Epilepsy: Preclinical and Human Genetics Data. *Current Neuropharmacology* 21:105-18
- Chalos V, Venema E, Mulder M, Roozenbeek B, Steyerberg EW, Wermer MJH, Lycklama ANGJ, van der Worp HB, Goyal M, Campbell BCV, Muir KW, Guillemin F, Bracard S, White P, Davalos A, Jovin TG, Hill MD, Mitchell PJ, Demchuk AM, Saver JL, van der Lugt A, Brown S, Dippel DWJ, Lingsma HF, HERMES Collaborators MR CLEAN Registry Investigators (**Kowarik M** et al; 2023) Development and Validation of a Postprocedural Model to Predict Outcome After Endovascular Treatment for Ischemic Stroke. *JAMA Neurology* 80:940-8
- Chapman CA, Polyakova M, Mueller K, Weise C, Fassbender K, Fliessbach K, Kornhuber J, Lauer M, Anderl-Straub S, Ludolph A, Prudlo J, Staiger A, **Synofzik M**, Wiltfang J, Riedl L, Diehl-Schmid J, Otto M, Danek A, Hartwigsen G, Schroeter ML, Germany FC (2023) Structural correlates of language processing in primary progressive aphasia. *Brain Communications* 5:10
- Chatterjee P, Vermunt L, Gordon BA, Pedrini S, Boonkamp L, Armstrong NJ, Xiong C, Singh AK, Li Y, Sohrabi HR, Taddei K, Molloy M, Benzinger TLS, Morris JC, Karch C, Berman S, Chhatwal J, Cruchaga C, Graff-Radford NR, Day GS, Farlow M, Fox N, Goate A, Hassenstab J, Lee JH, Levin J, McDade E, Mori H, Perrin R, Sanchez-Valle R, Schofield PR, Levey A, **Jucker M**, Masters CL, Fagan AM, Bateman RJ, Martins RN, Teunissen C, Dominantly Inherited Alzheimer N (2023) Plasma glial fibrillary acidic protein in autosomal dominant Alzheimer's disease: Associations with Abeta-PET, neurodegeneration, and cognition. *Alzheimer's & Dementia* 19:2790-804
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Book Chapters

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List of Student Training in 2023

(In alphabetical order)

Lectures

(Summer Term/Winter Term)

Basic Neurobiology

*Prof. Dr. Philipp Kahle (coordinator and lecturer),
Dr. David Baur, Dr. Julia Fitzgerald, Dr. Ulrike
Hedrich-Klimosch, Dr. Deborah Kronenberg-Versteeg*
Curriculum Molecular Medicine

Basispropädeutik Laborforschung und Tiermodelle

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

Behavior and Cognition: Methods in Neuropsychology

PD Dr. M. Himmelbach, Dr. Axel Lindner
Graduate Training Centre of Neuroscience

Behavior and Cognition: Neuropsychology

Prof. Dr. Dr. Hans-Otto Karnath, PD Dr. Axel Lindner
Graduate Training Centre of Neuroscience

Biochemistry II for Medical Students

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

Biomedical Technologies in Diagnostic and Therapy

Prof. Dr. Christoph Braun
Faculty of Medicine (Biomedical Technology)

BioRobotics

Prof. Dr. Daniel Häufle
Faculty of Science (Informatics)

Cellular and Molecular Neuroscience

Dr. Alia Benali, Dr. Julia Fitzgerald
Graduate Training Centre of Neuroscience

Computational Motor Control

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

Dynamics of Neural Systems

Prof. Dr. Martin Giese
Graduate Training Centre of Neuroscience

Fundamentals of Sensorimotor Integration

Prof. Dr. Uwe Ilg
Graduate Training Centre of Neuroscience

Funktionell relevante Läsionen des Gehirns

PD Dr. Marc Himmelbach
Ringvorlesung Physiologie
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,
Dr. Stefan Hauser, Dr. Ulrike Hedrich-Klimosch,
PD Dr. Markus Kowarik, Dr. Yuanyuan Liu,
Dr. Christoph Ruschil*
Graduate Training Centre of Neuroscience

Introduction to Clinical Neurology

Prof. Dr. Kathrin Brockmann
Medical Faculty

Introduction to Scholarly Research and Writing

PD Dr. Marc Himmelbach, Prof. Dr. Thomas Euler
Graduate Training Centre of Neuroscience

Lecture General Neurology

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

LSC Wissenschaftlichkeit –

Säulenpropädeutik Grundlagenwissenschaften

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

Machine Learning

Prof. Dr. Martin Giese
Graduate Training Centre of Neuroscience

Massenspektrometrie in Diagnostik & Therapiemonitoring

(E21; S05VMEDETEC10)
*PD Dr. Christian Johannes Gloeckner, Prof. Dr. Marius Ueffing,
Dr. Mohamed Ali Jarbouï (both Institute for Ophthalmic
Research), Prof. Dr. Rainer Lehmann (Department of Clinical
Chemistry & Pathobiochemistry)*
Medical Faculty

Medical Physics*Prof. Dr. Christoph Braun*

Medical Faculty (Molecular Medicine)

Methods in Molecular Neurobiology*Dr. David Mengel*

Graduate Training Centre of Neuroscience

Methods in Neuropsychology*Prof. Dr. Christoph Braun*

Graduate Training Center of Neuroscience

Mitochondrial Metabolism*Dr. Julia Fitzgerald*Current Topics in Cellular Metabolism,
University of Tübingen**Motor Systems***Prof. Dr. Cornelius Schwarz*

Graduate Training Centre of Neuroscience

Multisensory integration: Insights into the modulation and integration of sensory input*Prof. Dr. Cornelius Schwarz, Dr. Alia Benali*

Graduate Training Centre of Neuroscience

Neural Experimental Techniques*Prof. Dr. Thomas Euler, Dr. Peter Jones, Dr. Timm Schubert, PD Dr. Marc Himmelbach*

Graduate Training Centre of Neuroscience

Neural Experimental Techniques*Prof. Dr. Christoph Braun*

Computational Neuroscience

Neurochemistry and Neurotransmitters*Prof. Dr. Philipp Kahle*

Graduate Training Centre of Neuroscience

Neuroglia*Dr. Jonas Neher, Dr. Deborah Kronenberg-Versteeg, Dr. Friederike Pfeiffer*

Graduate Training Centre of Neuroscience

Neurointensive Care*PD Dr. Katharina Feil, PD Dr. Annerose Mengel*

Medical Faculty

Neurology for Intensive Care Unit nurses*Dr. Stephan Lauxmann*

School for ICU nursery Tübingen

Neurology for speech therapists*Dres. Christina Lipski, Katharina Kneer, Natalie Winter*

School for Speech Therapists Tübingen

Neurophysiologie für Mediziner -**Funktionell relevante Läsionen des Gehirns***PD Dr. Marc Himmelbach*

Medical Faculty

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

Graduate Training Centre of Neuroscience

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

Graduate Training Centre of Neuroscience

Personalized Medicine*Prof. Dr. Dr. Ghazaleh Tabatabaï, Dr. Daniel Merk*

Molecular Medicine, Medical Faculty

Physiological and Physical Basis of Functional Brain Imaging*Prof. Dr. Markus Siegel, Prof. Dr. Andreas Bartels*

Graduate Training Centre of Neuroscience

QB3 Oncology*Prof. Dr. Dr. Ghazaleh Tabatabaï*

Medical Faculty

QB4 Infections & Immunology*PD Dr. Markus Kowarik*

Medical Faculty

QB7 Geriatrics*Prof. Dr. Daniel Weiß, Prof. Dr. Gerhard Eschweiler*

Medical Faculty

QB7 Geriatric Medicine*Prof. Dr. Matthias Synofzik, Prof. Dr. Gerhard Eschweiler*

Medical Faculty

QB8 Neurological Emergencies*Prof. Dr. Sven Poli*

Medical Faculty

Lectures

(Summer Term/Winter Term)

QB13 Palliative Medicine

PD Dr Johannes Rieger

Medical Faculty

Rare neurological diseases: Interdisciplinary Medicine and Translational Research

Prof. Dr. Ludger Schöls

Medical Faculty

Research focus Imaging.

Dr. Nicolas Snaidero

PhD program in Experimental Medicine,

Ringvorlesung Wissenschaftlichkeit (Neuroscience)

Prof. Dr. Mathias Jucker, Prof. Thomas Euler, Prof. Birgit Derntl

Medical Faculty

Sensory Systems I: Visual System

Dr. Christina Schwarz, Prof. Dr. Ziad Hafed, Prof. Dr. Francois Paquet-Durand, Dr. Timm Schubert, Prof. Dr. Marius Ueffing, Prof. Dr. Cornelius Schwarz

Graduate Training Centre of Neuroscience

Sensory Systems II: Auditory and remaining

Prof. Dr. Anthony Gummer, Prof. Dr. Horst Herbert, Prof. Dr. Francois Paquet-Durand, Prof. Dr. Lukas Tüttiger

Graduate Training Centre of Neuroscience

System Neuroscience

Dr. Winfried Ilg, Prof. Dr. Peter Dayan, Prof. Dr. Li Zhaoping

Graduate Training Centre of Neuroscience

Theoretical Methods for Computational Neuroscience I & II

Prof. Dr. Martin Giese

Graduate Training Centre of Neuroscience

Ultraschall in der Neurologie

Prof. Dr. Alexander Grimm

Medical Faculty

Seminars and Courses

(Summer Term/Winter Term)

Animal Physiology Practical for Students of Bioinformatics (BSc)

Prof. Dr. Uwe Ilg

Faculty of Science (Biology)

Bedside Teaching: Neurological Examination for Advanced Students

Prof. Dr. Ludger Schöls, Dr. Holger Hengel

Prof. Dr. Matthias Synofzik

Medical Faculty

Bedside Training: Neurological Diagnostics

Gabriela Zaiser, Nathalie Vetter, Yvonne Schütze, Prof. Dr.

Alexander Grimm, Dr. Benjamin Röben, Dr. Tobias Lindig

Medical Faculty

Bedside Training: Neurology and Epileptology

Dr. Stephan Lauxmann, Dr. Silke Ethofer,

Prof. Dr. Holger Lerche, Dr. Benjamin Bender, Dr. Josua Kegele

Medical Faculty

BioRobotics

Prof. Dr. Daniel Häufle

Faculty of Science (Informatics)

Block Neurohistology and Neuromorphology

Prof. Dr. Mathias Jucker, Dr. Nicolas Snaidero

Graduate Training Centre of Neuroscience

Clinical Neurophysiology

Dr. Pascal Martin, Dr. Natalie Winter

Medical Faculty

Clinical Pathological Case Conference (CPC)

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

Prof. Dr. Matthias Synofzik

Medical Faculty

Clinic, Diagnosis and Therapy of Inflammatory Diseases of the Nervous System

PD Dr. Felix Bischof

Medical Faculty

Current Issues in Systems Neuroscience

Prof. Dr. Peter Thier

Medical Faculty

Current Problems in Neuropsychology

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

Die Natur des Sprachlauts – Phonology in the Brain

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

Dynamics of Neural Systems (exercises)

Prof. Dr. Martin Giese, Dr. Albert Mukovskiy
Graduate Training Centre of Neuroscience

Einführung in die Neurologie

PD Dr. Justus Marquetand
Medical Faculty

Geriatric-neurological-psychiatric Case Conference

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

Hands-on klinische Neurophysiologie und Ultraschall

PD Dr. Justus Marquetand
Medical Faculty

Hands-on rare neurological diseases:**Hospitation in ZSE clinics**

Prof. Dr. Ludger Schöls
Medical Faculty

Hertie Lunch Seminar

Prof. Dr. Uwe Ilg and faculty of the Hertie Institute
Medical Faculty

iKliC Hirndruck – Neuroinflammation

*Prof. Bornemann, PD Dr. Markus Krumbholz,
PD Dr. Markus Kowarik, PD Dr. Sven Poli et al.*
Medical Faculty

iKliC Deep Brain Stimulation

Prof. Dr. Daniel Weiß
Medical Faculty

iKliC HNO, Neurootologie

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Medical Faculty

iKliC Neurochirurgie

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Medical Faculty

In-Depth Module in MEd Studies Biology

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Faculty of Science (Biology)

Introduction to Transcranial Brain Stimulation

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Medical Faculty

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PD Dr. Christian Johannes Gloeckner,
Dr. Deborah Kronenberg-Versteeg,*
Graduate School of Cellular and Molecular Neuroscience

Journal Club IZKF Promotionskolleg

*Dr. Julia Fitzgerald, Prof. Dr. Ulrike Naumann, Dr. Tanja Riess
(Medical Faculty), Prof. Dr. Karin Schilbach (UKT)*
Medical Faculty

Journal Club “Neurodevelopment” for PhD students

Theresa Kagermeier, Kseniia Sarieva, Zeynep Yentür
Graduate School of Cellular and Molecular Neuroscience

Kick-Off Meeting IZKF Promotionskolleg

*Prof. Dr. Ulrike Naumann, Dr. Tanja Riess (Medical Faculty), PD
Dr. Marc Himmelbach, Prof. Dr. Karin Schilbach (UKT)*
Medical Faculty

Lab Rotations: Behavioral and Neural Systems

Prof. Dr. Ziad Hafed, Prof. Dr. Esther Kuehn
Graduate Training Centre of Neuroscience

Lab Rotations: Cellular and Molecular Neurosciences

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Prof. Dr. Ludger Schöls, Dr. Stefan Hauser,
Dr. Ulrike Hedrich-Klimosch,
Dr. Deborah Kronenberg-Versteeg, Dr. Yuanyuan Liu,
Dr. Niklas Schwarz, Dr. Thomas Wuttke*
Graduate Training Centre of Neuroscience

Lab Rotations: Cognitive Neuroscience

Prof. Dr. Hans-Peter Thier
Graduate Training Centre of Neuroscience

Seminars and Courses

(Summer Term/Winter Term)

Lab Rotations: Molecular Medicine

Dr. Julia Fitzgerald

Masters Program "Molecular Medicine", Medical Faculty

LSC Wissenschaftlichkeit –

Projekt „Kortikale Netzwerke der visuellen Aufmerksamkeitssteuerung“

PD Dr. Marc Himmelbach

Medical Faculty

Machine Learning I & II (exercises)

Prof. Dr. Martin Giese

Graduate Training Centre of Neuroscience

Methodological Frontiers in the Cognitive Neurosciences

PD Dr. Marc Himmelbach, Prof. Dr. Esther Kuehn,

Prof. Dr. Ziad Hafed

Graduate Training Centre of Neuroscience

Molecular Biology Practical Course

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Curriculum Experimental Medicine

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Tübingen Neurocampus

Neurocognitive disorders

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Block course of the Department of Cellular Neurology

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

Medical Faculty

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Dr. Ebba Lohmann, PD Dr. Annerose Mengel,

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Prof. Dr. Dr. Ghazaleh Tabatabai, Prof. Dr. Peter Thier

Prof. Dr. Daniel Weiß, Dr. Natalie Winter, Prof. Dr. Ulf Ziemann

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Dr. Daniel Merk

Curriculum Molecular Medicine

Physiologisches Praktikum

Prof. Dr. Uwe Ilg

Faculty of Medicine (Hebammenwissenschaften)

Practical Course Electrophysiology

Dr. Alia Benali

PhD program Experimental Medicine

Practical Electrophysiology

Prof. Dr. Cornelius Schwarz, Dr. Christine Pedroarena

Graduate Training Centre of Neuroscience

Practical Neurobiology*Prof. Dr. Ziad Hafed*

Faculty of Science (Biology)

Project Module #4105: Assessment of RNA treatment against modified TDP-43 aggregation*Prof. Dr. Philipp Kahle*

Faculty of Science (Cell Biology)

Retreat IZKF Promotionskolleg*Prof. Dr. Ulrike Naumann, Dr. Tanja Riess (Medical Faculty),**Prof. Dr. Karin Schilbach (UKT)*

Medical Faculty Neuroscience

Rotation Seminars I and II*PD Dr. Marc Himmelbach*

Graduate Training Centre of Neuroscience

Science for a Change*Dr. Julia Fitzgerald*

Masters Program "Molecular Medicine", Medical Faculty

Sprache und Musik – Two Siblings in the Brain*Prof. Dr. Ingo Hertrich*

General Linguistics (Philosophical Faculty) and Cognitive Science (Faculty of Science)

Structure & Plasticity of the Nervous System (BSc)*Prof. Dr. Andrea Burgalossi, Jun-Prof. Dr. Dr. Michela Deleidi*

Faculty of Science (Biology)

Technical Didactics: Neuroscience in the Classroom*Prof. Dr. Uwe Ilg*

Faculty of Science (Biology)

Tübinger Lernportfolio Medizin*PD Dr. Katharina Feil, PD Dr. Marc Himmelbach,**Dr. Ebba Lohmann, PD Dr. Justus Marquetand,**PD Dr. Annerose Mengel, Dr. Jonas Neher*

Medical Faculty

TüRex*Dr. Julia Fitzgerald, Prof. Dr. Philipp Kahle*

Medical Faculty

TüRex project: Apparent Motion, head movements, and motion parallax*Prof. Dr. Uwe Ilg*

Medical Faculty

TüRex project: Cortical myelinating glia lineage pathology in a mouse model for Alzheimer disease*Dr. Nicolas Snaidero*

Medical Faculty

TüRex project: Einfluss von Kaliumkanälen auf die dendritische Morphologie human-kortikoider Neurone*Dr. Ulrike Hedrich-Klimosch, Dr. Niklas Schwarz*

Medical Faculty

TüRex project: Funktionelle Genomanalysen zur Identifizierung neuer Therapieansätze in der Neuroonkologie*Dr. Daniel Merk*

Medical Faculty

TüRex project: Kultivierung von menschlichen Hirnschnitten als organotypische ex-vivo Plattform*Dr. Thomas Wuttke*

Medical Faculty

TüRex project: Lineage and morphological analysis of Phagocytes within inflammatory lesions in mouse cortex*Dr. Nicolas Snaidero*

Medical Faculty

TüRex project: Visualization of cortical myelin distribution during development in mammalian*Dr. Nicolas Snaidero*

Medical Faculty

TüRex project: Yoga interventions in neurooncological patients*Prof. Dr. Mirjam Renovanz*

Medical Faculty

Videseminar Bewegungsstörungen*Prof. Dr. Ludger Schöls, Prof. Dr. Matthias Synofzik,**Dr. Benjamin Röben, Dr. Ralf Reilmann*

Medical Faculty

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