

# TübingenNeuroCampus: Labs & Research Groups

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The following institutes are part of the TübingenNeuroCampus:

1. Centre for Integrative Neuroscience (CIN)
2. Centre for Ophthalmology
3. German Center for Neurodegenerative Diseases (DZNE)
4. Hertie Institute for Clinical Brain Research (HIH)
5. Max Planck Institute for Biological Cybernetics
6. Max Planck Institute for Intelligent Systems
7. University of Tübingen
  - 7.1. Faculty of Science: Department of Biology
  - 7.2. Faculty of Science: Department of Computer Science
8. University Hospital Tübingen: various Departments

## 1. Centre for Integrative Neuroscience (CIN)

Homepage: <https://www.cin.uni-tuebingen.de/research/research-groups.html>

### Junior Research Groups:

#### Cellular and Synaptic Basis of Behaviour

**Dr. Andrea Burgalossi**

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#### Functional and Comparative Neuroanatomy

**Dr. Henry Evrard**

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#### Large Scale Neuronal Interactions

**Dr. Markus Siegel**

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#### Molecular Mechanism of Axonal Injury

**Dr. Ivana Nikic-Spiegel**

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#### Neurobiology of Vocal Communication

**PD Dr. Steffen Hage**

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#### Neurophysiology of Visual and Decision Processes

**Dr. Hendrikje Nienborg**

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## **Retinal Circuits and Optogenetics**

**Dr. Thomas Münch**

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## **Professorships:**

### **Biomedical Magnetic Resonance**

**Prof. Klaus Scheffler**

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### **Computational Neuroscience**

**Prof. Matthias Bethge**

Contact: matthias.bethge@uni-tuebingen.de

### **Computational Sensomotorics**

**Prof. Martin Giese**

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### **Ophthalmic Research**

**Prof. Thomas Euler**

Contact: thomas.euler@cin.uni-tuebingen.de

### **Philosophy of Neuroscience**

**Prof. Hong Yu Wong**

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### **Physiology of Active Vision**

**Prof. Ziad Hafed**

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### **Physiology of Learning and Memory**

**Prof. Ingrid Ehrlich**

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### **Systems Neurobiology**

**Jun-Prof. Aristides Arrenberg**

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### **Systems Neurophysiology**

**Prof. Cornelius Schwarz**

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### **Vision and Cognition**

**Prof. Andreas Bartels**

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## 2. Centre for Ophthalmology

Homepage: <http://www.eye-tuebingen.de/labs/>

### **Berens Lab: Data Science for Vision Research**

**Prof. Philipp Berens**

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### **Euler Lab: Ophthalmic Research**

**Prof. Thomas Euler**

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### **Schaeffel Lab: Neurobiology of the Eye**

**Prof. Frank Schaeffel**

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### **Schraermeyer Lab: Experimental Vitreoretinal Surgery**

**Prof. Ulrich Schraermeyer**

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### **Seeliger Lab: Ocular Neurodegeneration**

**Prof. Mathias Seeliger**

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### **Ueffing Lab: Molecular Biology of Retinal Degenerations**

**Prof. Marius Ueffing**

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### **Wissinger Lab: Molecular Genetics Laboratory**

**Prof. Bernd Wissinger**

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### **Zrenner Lab: Pathophysiology of Vision**

**Prof. Eberhart Zrenner**

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## 3. German Center for Neurodegenerative Diseases (DZNE)

Homepage: <https://www.dzne.de/en/research/research-groups/> (Sites: Choose "Tübingen")

### **Applied Genomics for Neurodegenerative Diseases**

**Dr. Patrizia Rizzu**

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### **Cell Biology of Neurological Diseases**

**Prof. Matthias Jucker**

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**Clinical Neurogenetics****Prof. Ludger Schöls**

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**Experimental Neuroimmunology****Dr. Jonas Neher**

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**Genetics of Parkinson's disease****Prof. Thomas Gasser**

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**Genome Biology of Neurodegenerative Diseases****Prof. Peter Heutink**

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**Mitochondria and Inflammation in Neurodegenerative Diseases****Jun-Prof. Dr. Michela Deleidi**

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**Molecular Neuropathology of Neurodegenerative Diseases****Prof. Dr. Manuela Neumann**

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**Protein Aggregation and Aging****Dr. Della David**

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**Translational biomarkers in neurodegenerative diseases****Dr. Johannes Glöckner**

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**4. Hertie Institute for Clinical Brain Research (HIH)**Homepage: <https://www.hih-tuebingen.de/en/forschung/>**Brain Networks and Plasticity****Prof. Ulf Ziemann**

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**Clinical Genetics of Paroxysmal Neurological Diseases****Prof. Yvonne Weber**

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**Clinical Parkinson Research****Dr. Kathrin Brockmann**

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**Deep Brain Stimulation****PD Dr. Daniel Weiß**

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**Experimental Epileptology****Prof. Holger Lerche**

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**Experimental Neuroimmunology****Dr. Jonas Neher**

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**Experimental Neuropathology****Prof. Mathias Jucker**

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**Genomic of Rare Movement Disorders****PD Dr. Rebecca Schuele**

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**Genetics of Parkinson's disease****Prof. Thomas Gasser**

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**Interdisciplinary Section of Neuro-Oncology****Prof. Ghazaleh Tabatabai**

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**Migraines and Primar Headache Disorders****PD Dr. Tobias Freilinger**

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**Mitochondrial Biology of Parkinson's Disease****Dr. Julia Fitzgerald**

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**Molecular Brain Development****Dr. Simone Mayer**

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**Molecular Imaging****Dr. Angelos Skodras**

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**Molecular Neurooncology****Prof. Ulrike Naumann**

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**Motor Control Modeling****Dr. Daniel Häufle**

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## **Neurophonetics and Translational Neurorehabilitation**

**Prof. Hermann Ackermann**

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## **Neuropsychology of Action**

**Dr. Marc Himmelbach**

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## **Oculomotor Laboratory**

**Prof. Uwe Ilg**

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## **Physiology of Learning and Memory**

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## **Section for Clinical Neurogenetics**

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## **Section for Computational Sensomotorics**

**Prof. Martin Giese**

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## **Section for Dementia Research**

**Prof. Christoph Laske**

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## **Section for Neuropsychology**

**Prof. Hans-Otto Karnath**

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## **Sensorimotor Lab**

**Prof. Hans-Peter Thier**

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## **Stroke and Neuroprotection**

**Dr. Sven Poli**

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## **Systems Neurodegeneration**

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## **Systems Neurophysiology**

**Prof. Cornelius Schwarz**

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## **Translational Imaging**

**PD Dr. Niels Focke**

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## 5. Max Planck Institute for Biological Cybernetics

Homepage: <http://www.kyb.tuebingen.mpg.de/research/dep.html>

### Departments:

#### Computational Neuroscience

**Prof. Peter Dayan**

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#### High-Field Magnetic Resonance

**Prof. Klaus Scheffler**

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#### Human Perception, Cognition & Action

**Prof. Heinrich Bülhoff**

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#### Physiology of Cognitive Processes

**Prof. Nikos Logothetis**

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#### Sensory and Sensorimotor Systems

**Prof. Li Zhaoping**

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### Research Groups:

#### MR Spectroscopy and Ultra-High Field Methodology

**Dr. Anke Henning**

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#### MR Neuroimaging Agents

**Dr. Goran Angelovski**

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#### Translational Neuroimaging and Neural Control

**Dr. Xin Yu**

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#### Space and Body Perception

**PhD Betty Mohler**

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#### Neuronal Convergence

**Dr. Hamid Noori**

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## 6. Max Planck Institute for Intelligent Systems

Homepage: <http://is.tuebingen.mpg.de/departments>

### Department „Autonomous Motion“ (Tübingen Campus)

**Prof. Michael Black**

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### Department „Empirical Inference“ (Tübingen Campus)

**Prof. Bernhard Schölkopf**

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### Department „Perceiving Systems“ (Tübingen Campus)

**Prof. Michael Black**

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## 7. University of Tübingen: Faculty of Science

### 7.1. Department of Biology: Institute for Neurobiology

Homepage: <https://uni-tuebingen.de/en/faculties/faculty-of-science/departments/biology/institutes/neurobiology/>

#### Animal Physiology

**Prof. Andreas Nieder**

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#### Cognitive Neuroscience

**Prof. Hanspeter Mallot**

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#### Neuroethology

**Prof. Jan Benda**

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#### Systems Neurobiology

**Jun-Prof. Aristides Arrenberg**

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### 7.2. Department of Computer Science

Homepage: <https://uni-tuebingen.de/en/faculties/faculty-of-science/departments/computer-science/department/research-groups/>

#### Vision & Cognition:

##### Neural Information Processing

**Prof. Felix Wichmann**

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## **8. University Hospital Tübingen Institute of Medical Psychology and Behavioral Neurobiology**

Homepage: <https://www.medizin.uni-tuebingen.de/en/Staff/Management+and+Administration+/Institutes/Medical+Psychology.html>

### **Research Foci: Learning and memory**

#### **Prof. Jan Born**

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or

#### **Prof. Niels Birbaumer**

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## **Psychiatry and Psychotherapy**

Homepage (some research groups are in german only): [https://www.medizin.uni-tuebingen.de/en/Press/Our+Institutions+A+\\_Z/Hospitals/Psychiatry+and+Psychotherapy/General+Psychiatry+and+Psychotherapy/Research.html](https://www.medizin.uni-tuebingen.de/en/Press/Our+Institutions+A+_Z/Hospitals/Psychiatry+and+Psychotherapy/General+Psychiatry+and+Psychotherapy/Research.html)

### **Affective Neuropsychiatry**

#### **Prof. Dirk Wildgruber**

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### **Applied Neurotechnology Lab**

#### **Dr. Surjo Soekadar**

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### **Biomedical Image Analysis**

#### **Prof. Martin Walter**

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### **Cognitive Neuropsychiatry**

#### **PD Dr. Alexander Rapp**

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### **Innovative Neuroimaging**

#### **Prof. Birgit Derntl**

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### **Growth Factors in Mental Disorders**

#### **Prof. Christoph Laske**

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### **Molecular Psychiatry**

#### **Prof. Vanessa Nieratschker**

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### **Neurophysiology & Interventional Neuropsychiatry**

#### **Prof. Christian Plewnia**

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### **Psychophysiology & Optical Imaging**

**Dr. Ann-Christine Ehlis**

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or

**Prof. Andreas Fallgatter**

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### **Psychotherapy Research**

**Prof. Stefan Klingberg**

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## **University Children's Hospital**

Homepage: <https://www.medizin.uni-tuebingen.de/kinderklinik/en/research/>

### **Infectious Diseases and Pediatric Immunology**

**Dr. Andreas Hector**

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### **Neuroimaging**

**Prof. Marko Wilke**

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## **University Department of Otolaryngology, Head and Neck Surgery Tübingen Hearing Research Centre**

Homepage: <http://thrc.hno.medizin.uni-tuebingen.de/groups/home>

### **Molecular Physiology of Hearing**

**Prof. Marlies Knipper**

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### **Regenerative Medicine**

**Prof. Hubert Löwenheim**

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### **Section of Physiological Acoustics**

**Prof. Anthony Gummer**

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