EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN

GRADUATE TRAINING CENTRE
OF NEUROSCIENCE
International Max Planck Research School

Graduate Training Centre of Neuroscience

Integrating Neuroscience Education

EBERHARD KARLS
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GRADUATE TRAINING CENTRE
OF NEUROSCIENCE
International Max Planck Research School

The University of Tübingen

Since 2012: 1 of 11 German Universities of Excellence

Winter semester 2021/22

All students	28,159
Female	16,589
New enrollments	5,219
International students	3,927

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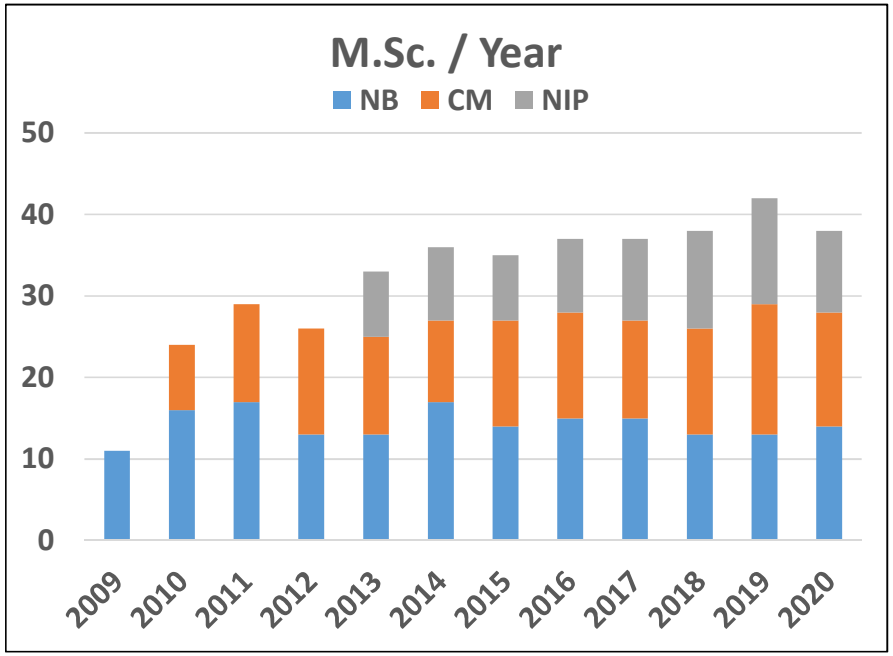
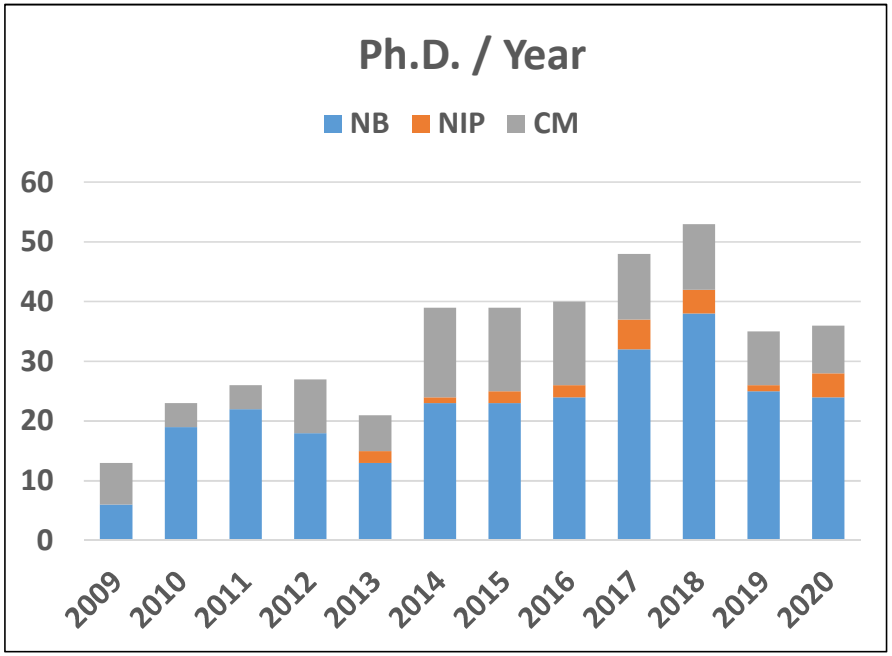
The Graduate Training Centre

	Current	Internationals	Graduations (2009-2020)
Master	86	58%	386
PhD	223	53%	400





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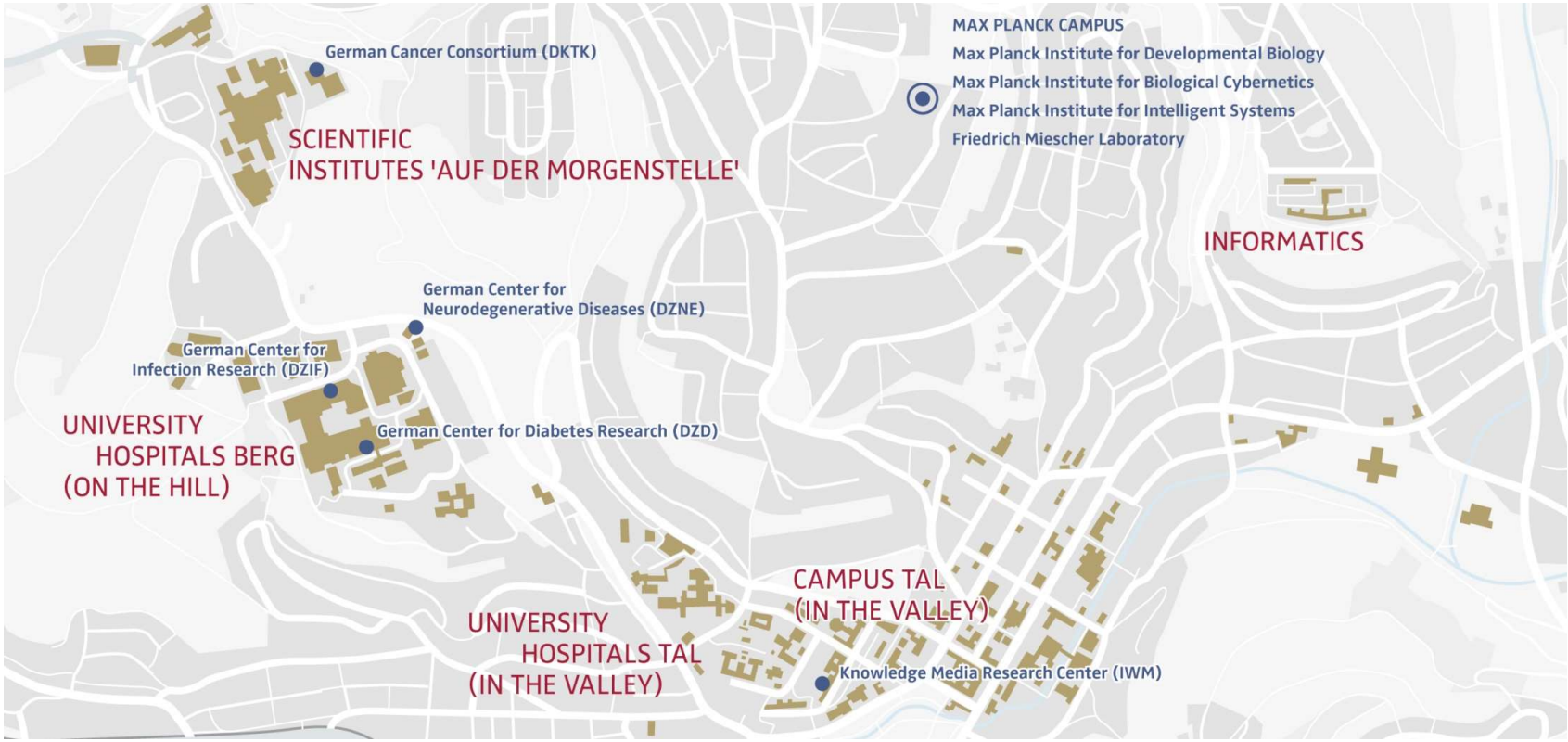
Tübingen Campuses



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University of Tübingen Core Research

Neuroscience

Artificial Intelligence and Machine Learning

Plant Molecular Biology

Translational Immunology and Cancer Research

Microbiology and Infection Research

Human Evolution and Archaeology

Language and Cognition

Education and Media

Geoscience and Environmental Science

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University of Tübingen Core Research - Neuroscience

2008 - 2021

24	ERC Starting Grants
11	ERC Consolidator Grants
12	ERC Advanced Grants
3	ERC Proof of Concept
2	ERC Synergy Grant

Since 2019/20

ERC Starting Grants	Dr. Christina Schwarz Prof. Dr. Philipp Berens
ERC Consolidator Grants	Prof. Dr. Markus Siegel Prof. Dr. Tobias Hauser Prof. Dr. Jakob Macke
ERC Advanced Grants	Prof. Dr. Klaus Scheffler Prof. Dr. Jan Born
ERC Synergy Grants	Prof. Dr. Martin Giese Prof. Dr. Ulf Ziemann

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TübingenNeuroCampus - TNC

https://tuebingenresearchcampus.com/research-in-tuebingen/tnc/

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TÜBINGEN **RESEARCH** CAMPUS

DEUTSCH | **ENGLISH**

info@tuebingenresearchcampus.com

+49 7071 29-75570

HOME | CAMPUS | **RESEARCH** | LIFE IN TUEBINGEN | NEWS | CONTACT

TÜBINGEN NEURO CAMPUS

You are here: Research » Tübingen Neuro Campus

The Neurosciences in Tübingen with more than 100 active research groups have the potential to rank among the most successful neuroscientific sites in Europe. Scientists in Tübingen pursue theoretical, system-neuroscientific, molecular and clinical research approaches in their entire breadth with a wide range of methods. The newly founded TübingenNeuroCampus wants to ensure the optimal use of Tübingen's potential with respect to research, education and application.

MISSION

Find here the mission, priority activities and the governance of the TNC

Visit page

PARTNERS

A list of the members representing the partners in the Institutional Steering Board and the Founding Group.

Visit page

PEOPLE OF THE TNC

A list of all the PIs and their research interests.

Visit page

https://tuebingenresearchcampus.com/research-in-tuebingen/tnc/

MAX PLANCK INSTITUTE
FOR BIOLOGICAL CYBERNETICS

DEUTSCH Search

ABOUT US | RESEARCH | CAREER | FACILITIES | PEOPLE | EVENTS | PRESS

Understanding Thought Processes

The aim of the Max Planck Institute for Biological Cybernetics is to understand information processing in the brains of humans and animals. We use experimental, theoretical and computational methods to elucidate the characteristics and implementations of the cascades of plastic and recurrent interactions that transform sensory data into perceptions, memories, appropriate choices of actions, and motor output.

https://www.kyb.tuebingen.mpg.de/en

Department for Computational Neuroscience

Dr. Peter Dayan

> [more]

Department for Body-Brain Cybernetics

Dr. Ivan de Araujo > [more]

Department for Sensory and Sensorimotor Systems

Prof. Dr. Zhaoping Li

> [more]

Department for High-field Magnetic Resonance

Prof. Dr. Klaus Scheffler

. > [more]

Molecular Signaling

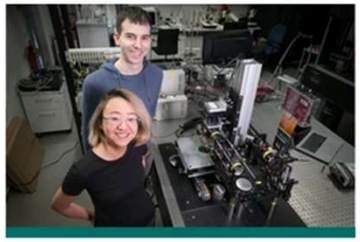
Dr. Robert Ohlendorf > [more]

Dynamic Cognition Group

Dr. Assaf Breska > [more]

Translational Sensory and Circadian Neuroscience

Prof. Dr. Manuel Spitschan > [more]



Systems Neuroscience & Neuroengineering

Dr. Jennifer Li & Dr. Drew Robson

Computational Principles of Intelligence

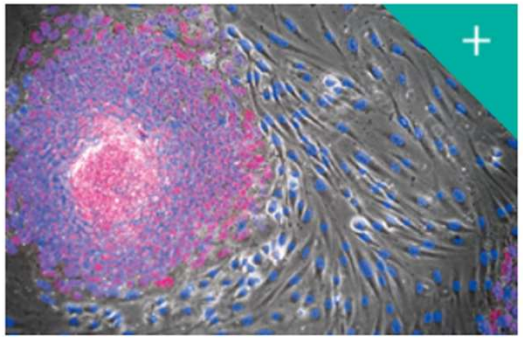
Dr. Eric Schulz

https://www.kyb.tuebingen.mpg.de/en

Hertie-Institut
für klinische Hirnforschung

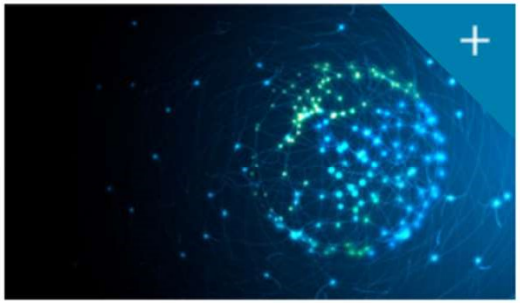
Departments

Neurology with Neurovascular Medicine



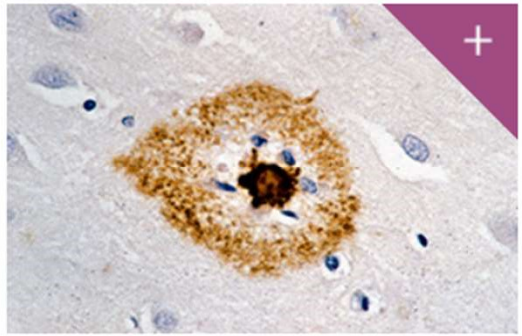
Neurodegenerative Diseases

Neurology and Epileptology



Department of Neurology and Interdisciplinary Neuro-Oncology

Department of Neural Dynamics and Magnetoencephalography



Cellular Neurology

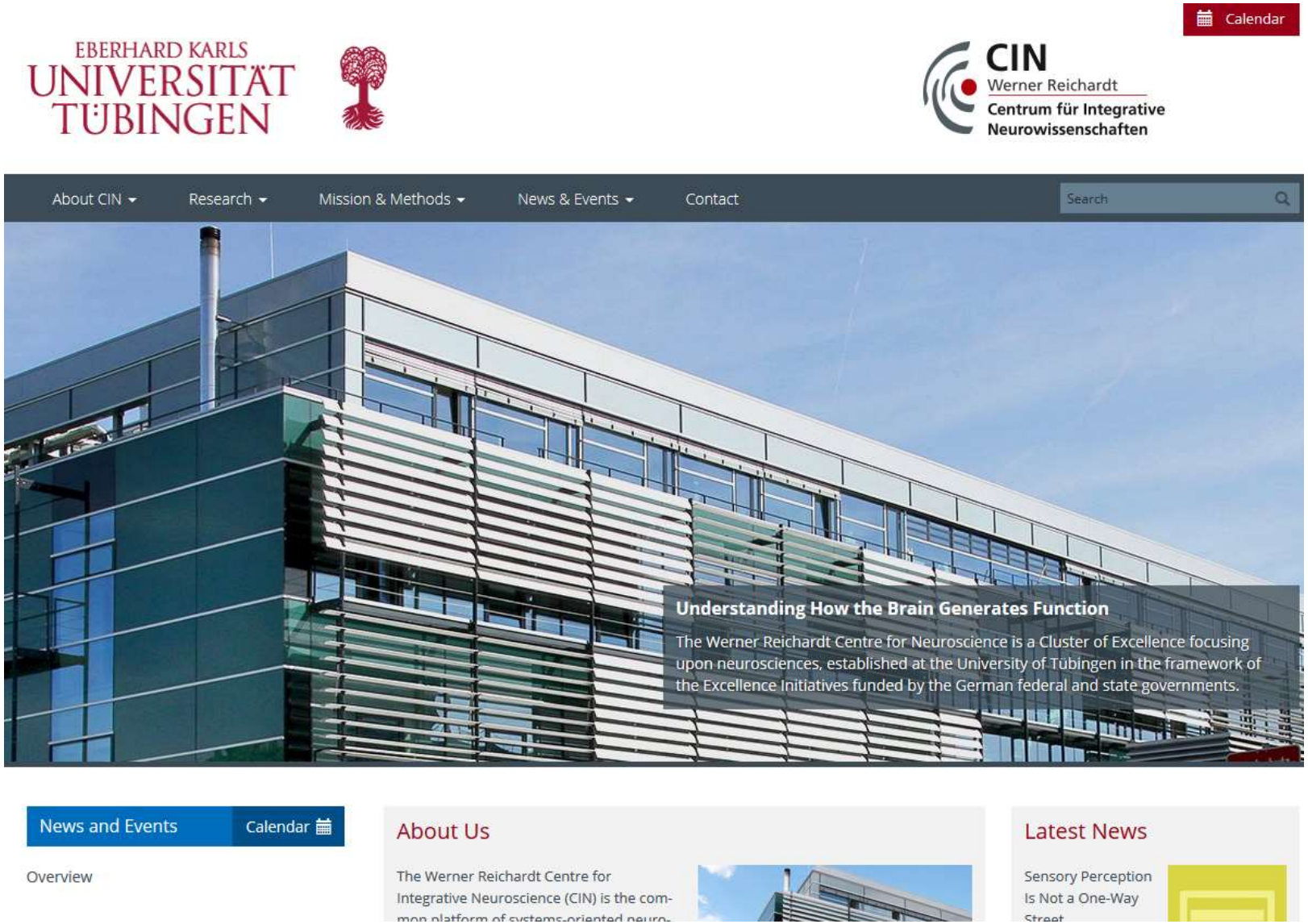
https://www.hih-tuebingen.de/en/

Hertie-Institut
für klinische Hirnforschung

Overview of research groups

- Brockmann Lab (Clinical Parkinson Research)
- Fitzgerald Lab (Mitochondrial Biology of Parkinson's Disease)
- Gasser Lab (Dystonia)
- Gasser Lab (Genetics of Parkinson's disease)
- Giese Lab (Section for Computational Sensomotorics)
- Grimm Lab (Neuromuscular Imaging Group)
- Hafed Lab (Active Perception Lab)
- Häufle Lab (Motor Control Modeling)
- Hedrich-Klimosch Lab (Experimental Neurophysiology of Channelopathies)
- Lerche Lab (Experimental Epileptology)
- Mayer Lab (Molecular Brain Development)
- Merk Lab (Experimental Pediatric Neuro-Oncology)
- Naumann Lab (Molecular Neurooncology)
- Neher Lab (Experimental Neuroimmunology)
- Poli Lab (Stroke and Neuroprotection)
- Renovanz Lab (Health Care Research in Neuro-Oncology)
- Schöls Lab (Section for Clinical Neurogenetic
- Schüle Lab (Genomic of Rare Movement Disorders)
- Schwarz Lab (Systems Neurophysiology Lab)
- Helfrich Lab (Human Intracranial Cognitive Neurophysiology)
- Himmelbach Lab (Neuropsychology of Action)
- Ilg Lab (Oculomotor Laboratory)
- Jucker Lab (Experimental Neuropathology)
- Kahle Lab (Functional Neurogenetics)
- Karnath Lab (Section for Neuropsychology)
- Kowarik Lab (Neurological B-Cell Immunology Group)
- Kühn Lab (Translational Imaging of Cortical Microstructure)
- Laske Lab (Dementia Research)
- Siegel Lab (Neural Dynamics and Magnetoencephalography)
- Snaidero Lab (Neuron-Glia Interactions)
- Synofzik Lab (Section for Translational Genomics of Neurodegenerative Diseases)
- Tabatabai Lab (Laboratory for Clinical and Experimental Neuro-Oncology)
- Thier Lab (Cognitive Neurology)
- Weiss Lab (Deep Brain Stimulation)
- Wuttke Lab (Molecular and translational neurosurgical epileptology)
- Ziemann Lab (Brain Networks and Plasticity)

https://www.hih-tuebingen.de/en/



https://uni-tuebingen.de/en/research/core-research/cin/about-cin/

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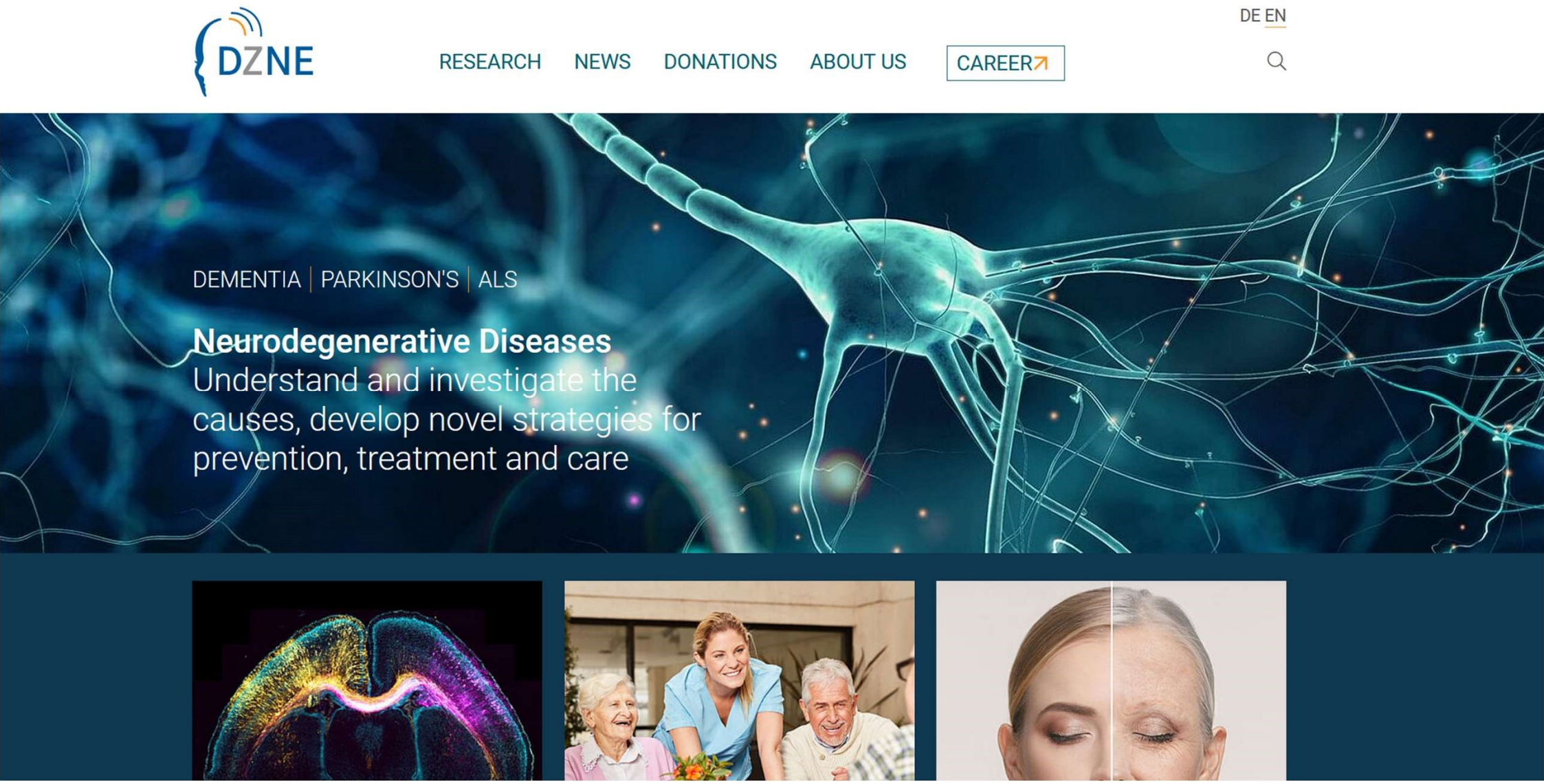
Calendar

CIN
Werner Reichardt
Centrum für Integrative
Neurowissenschaften

- Aristides Arrenberg
  Systems Neurobiology
- Andreas Bartels
  Vision & Cognition
- Jan Benda
  Neuroethology
- Philipp Berens
  Data Science for Vision Research
- Matthias Betghe
  Computational Neuroscience
- Andrea Burgalossi
  Neural Circuits and Behaviour
- Thomas Euler
  Ophthalmic Research
- Henry Evrard
  Functional and Comparative Neuroanatomy
- Olga Garaschuk
  Physiology of Neural Circuits
- Martin Giese
  Computational Sensomotorics (jointly with Hertie Institute)
- Ziad Hafed
  Physiology of Active Vision
- Steffen Hage
  Neurobiology of Social Communication
- Daniel Häufle
  Multi-Level Modeling in Motor Control and Rehabilitation Robotics
- Anna Levina
  Self-Organization and Optimality in Neural Networks
- Zhaoping Li
  Sensory and Sensorimotor Systems
- Andreas Nieder
  Animal Physiology
- Ivana Nikić-Spiegel
  Molecular Mechanisms of Axonal Injury
- Yulia Oganian
  Cognitive Neuroscience of Human Verbal Communication
- Klaus Scheffler
  Biomedical Magnetic Resonance (jointly with MPI for Biological Cybernetics)
- Hans-Ulrich Schnitzler
  Echolocation in Bats
- Cornelius Schwarz
  Systems Neurophysiology
- Markus Siegel
  Neural Dynamics and Magnetoencephalography
- Hans-Peter Thier
  Cognitive Neurology
- Lena Veit
  Neurobiology of Vocal Communication
- Felix Wichmann
  Neural Information Processing
- Hong Yu Wong
  Philosophy of Neuroscience
- Eberhardt Zrenner
  Retinal Degeneration

https://uni-tuebingen.de/en/research/core-research/cin/about-cin/

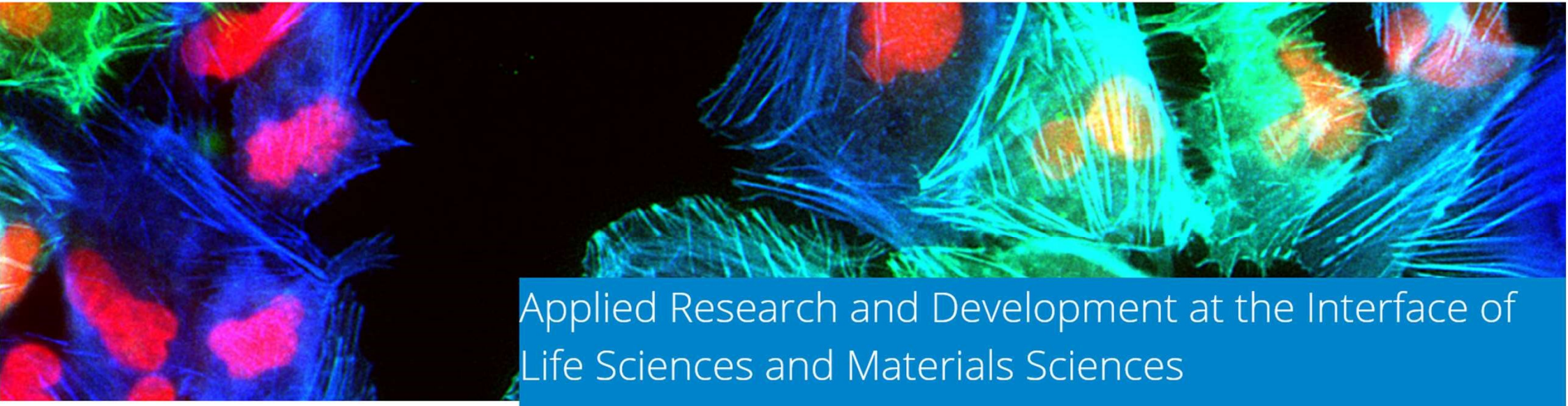


https://www.dzne.de/en/about-us/sites/tuebingen/

DE **EN** Contact »

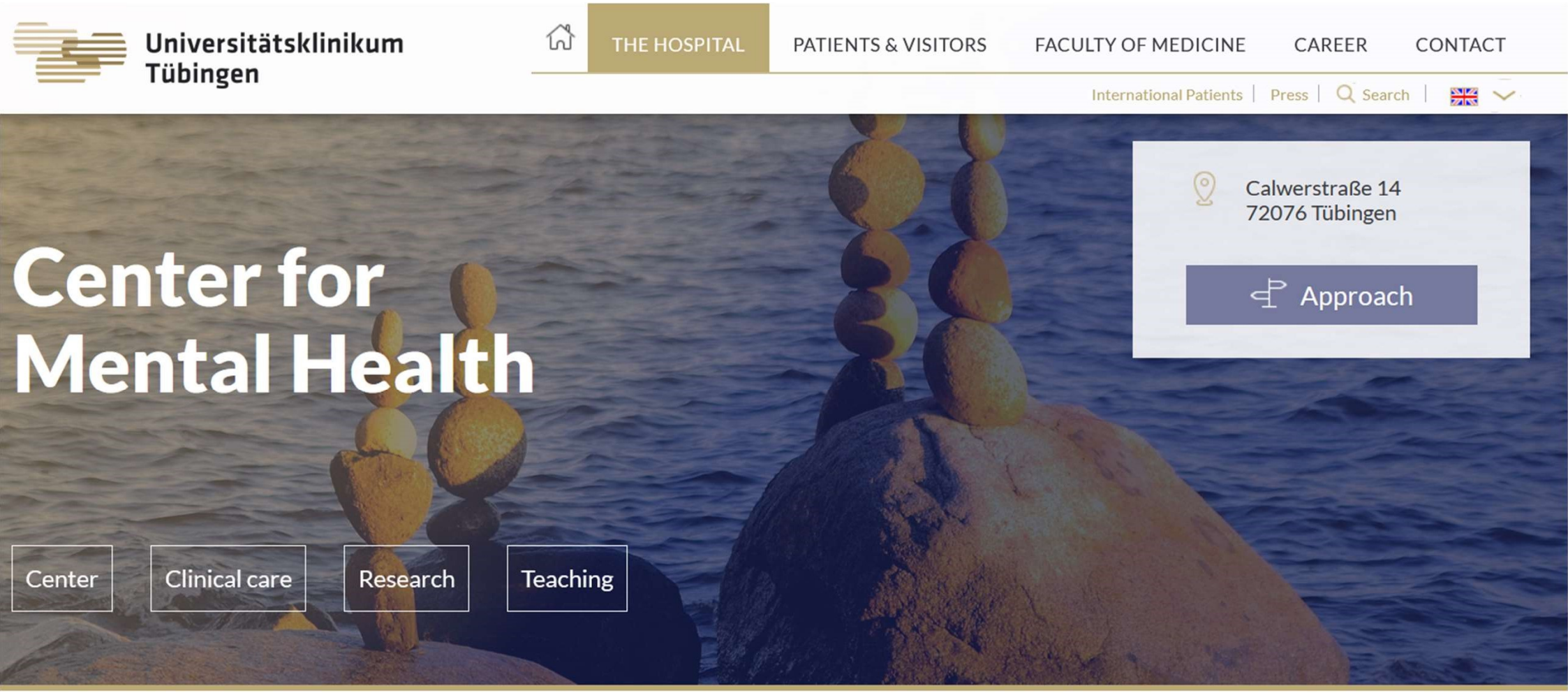
NMI
Natural and Medical Sciences Institute

Pharma and Biotech | Biomedicine and Materials Sciences | Working groups | Latest | Jobs | About us



Applied Research and Development at the Interface of Life Sciences and Materials Sciences

https://www.nmi.de/en/



The Hospital > Institutions A-Z > Centres > Mental health

https://www.medizin.uni-tuebingen.de/en-de/das-klinikum/einrichtungen/zentren/psychische-gesundheit/

Faculty of Science

Institute for Neurobiology

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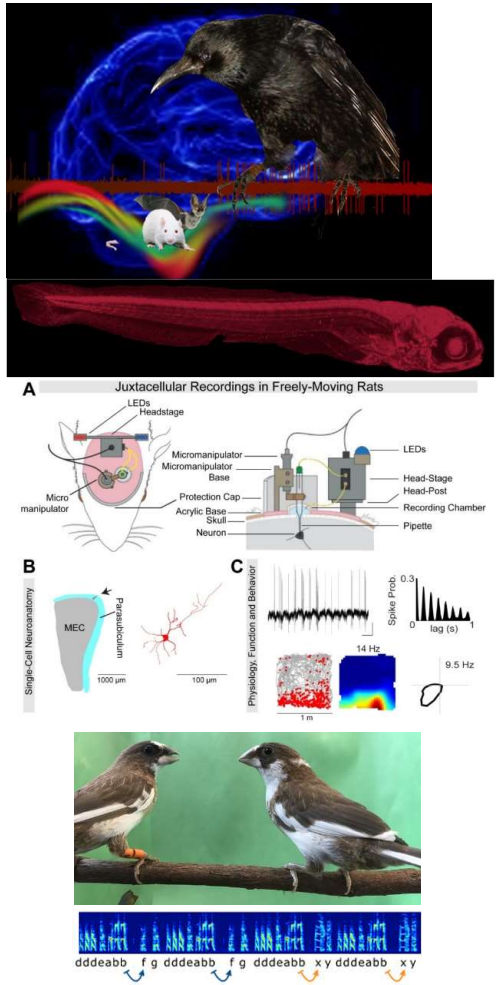
WE VALUE EXCELLENCE.

Group	Topic	Scientists
Cognitive Neuroscience (Prof. H. Mallot)	Spatial cognition Visual cognition Motion perception	Prof. H. Mallot Dr. G. Hardiess Dr. H.J. Dahmen
Animal Physiology (Prof. A. Nieder)	Neural basis of cognitive control Vocal communication Behavioral control in rodents Auditory physiology Bioacoustic and Echolocation	Prof. A. Nieder Dr. S. Westendorff Prof. P. Pilz Prof. J. Ostwald Prof. H.-U. Schnitzler / Dr. A. Denzinger
Neuroethology (Prof. J. Benda)	Electrocommunication in weakly electric fish Neurophysiology of sensory systems Computational Neuroscience	Prof. Dr. Jan Benda Dr. Jan Grewe
Systemic Neurobiology (Prof. A. Arrenberg)	Ocularmotor system Visualsystem Zebrafish circuits	Prof. Aristides Arrenberg
Neural Circuits and Behavior (Prof. A. Burgalossi)	Neural Circuits Hippocampus, Memory Spatial Navigation	Prof. Andrea Burgalossi Dr. Patricia Preston-Ferrer
Neurobiology of Vocal Communication (Jun. Prof. L. Veit)	Vocal communication and learning Neural basis of birdsong sequencing Flexible control of skilled behavior	Jun. Prof. Lena Veit



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

Hertie AI

Hertie Institute for Artificial Intelligence in Brain Health

With the "Hertie Institute for Artificial Intelligence in Brain Health" (Hertie AI), an institute is being established in Tübingen that is unique in Germany and focuses on the early diagnosis of diseases of the nervous system and their prevention with the help of artificial intelligence methods.

Detailed information on this project and our activities as a whole can be found on the German website .

https://www.ghst.de/en/studying-the-brain/creating-structures/translate-to-english-hertie-ai

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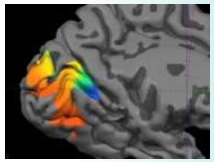
The Graduate Training Centre – Master's programs

1999

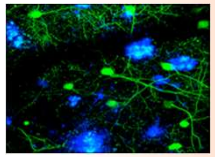
Neural & Behavioural Sciences



systems & cognitive neuroscience, neurophysiology, neuropsychology, sleep and learning & memory, brain imaging: fMRI, MEG, EEG, TMS

2008

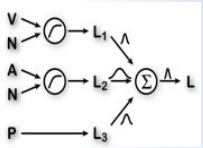
Cellular & Molecular Neuroscience



genetic, molecular and cellular processes of neurodegeneration, stem cells, genetic mouse models, molecular imaging techniques

2011

Neural Information Processing



computational vision, machine learning, computational motor control, robotics modelling of neuronal processes, BCI & neuroprosthetics

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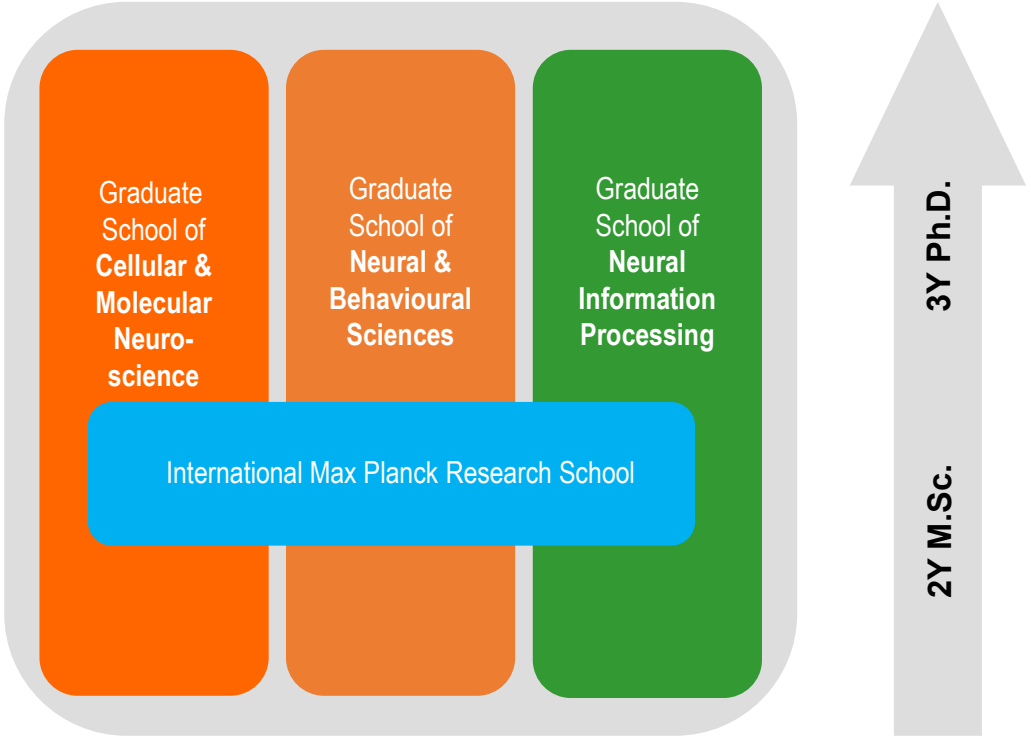
The Graduate Training Centre of Neuroscience



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PRE-DOCTORAL PHASE

MASTER COURSE

Doctoral Program 3-4 years

Master thesis 6 months

2nd Laboratory rotation 10 weeks

1st Laboratory Rotation 10 weeks

SS - Lectures / theoretical training

WS - Lectures / theoretical training

Laboratory rotation

- small research projects – different topics / labs
- acquire practical skills in a wide range of methods
- get to know current scientific questions

Course requirements

- seminar presentation + lab report

Course types

- lectures – exercises – tutorials – seminars
- laboratory visits - retreat

Course requirements

- written exams (mid term / end term)
- problem sheets, essays
- oral presentations


DZNE
CIN
Werner Reichardt
Centrum für Integrative
Neurowissenschaften
Hertie-Institut
für klinische Hirnforschung

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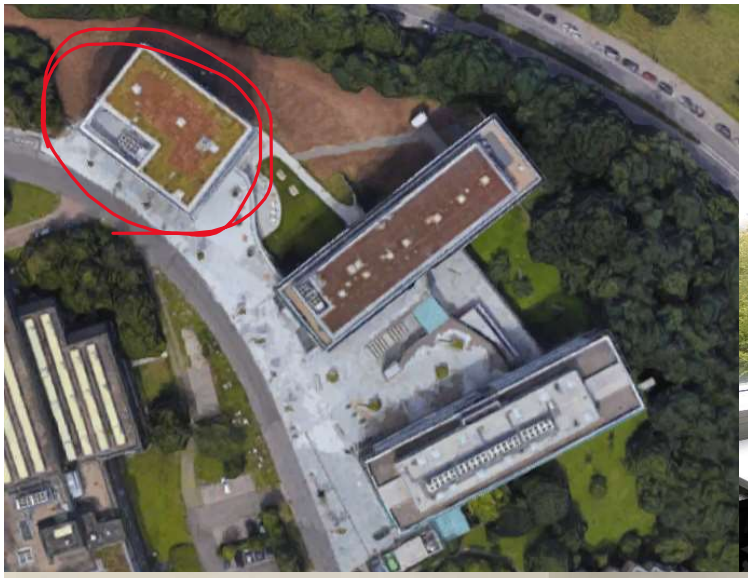

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