

TRANSLATIONAL NEUROSCIENCE

Master of Science (M.Sc.)





Study Programme Director Translational Neuroscience

Prof. Dr. med. Katrin Amunts

Director of Cécile & Oskar Vogt
Institute for Brain Research

☎ +49 (0) 211 81 06101
(Secretary's Office)

✉ matransneuro@hhu.de

Participating institutions

- ▶ Medical Faculty of the Heinrich-Heine-University (HHU) Düsseldorf
- ▶ Faculty of Mathematics and Natural Sciences of the HHU Düsseldorf
- ▶ Research Centre Jülich (Forschungszentrum Jülich)
- ▶ Leibniz Research Institute for Environmental Medicine (IUF) Düsseldorf

Lecturers

Renowned professors like Dr. Hermann Aberle, Dr. Orhan Aktas, Dr. Katrin Amunts, Dr. Andreas Bauer, Dr. Simon Eickhoff, Dr. Christoph Fahlke, Dr. Norbert Goebels, Dr. Heiner Fangerau, Dr. Esther Florin, Dr. Thomas Heinzl, Dr. Thomas Klein, Dr. Karl Köhrer, Dr. Carsten Korth, Dr. Anna von Mikecz, Dr. Hans Werner Müller, Dr. Guido Reifenberger, Dr. Christine Rose, Dr. Martin Rosenbruch, Dr. Ulrich Rüther, Dr. Holger Schwender, Dr. Olga Sergeeva, Dr. Kai Stühler, Dr. Sascha Weggen, such as PDs like Dr. Mihai Cerchez, Dr. Martin Sager and many more ...

National & international networking

Translational Neuroscience is in cooperation with the EU Educational Programme of the Human Brain Project (HBP) and the Graduate School of the Max Planck Society - the Max Planck School of Cognition.

Facts about the study programme

First accreditation:	2016 by AQAS e.V.
Students per year:	20
Enrolled students:	52
Graduates until now:	10

Programme start: *winter semester (only)*
Study duration: *4 semesters*
Open for application: *15th of May*
Application deadline: *15th of July*
Period for enrolment: *as per notification of admission*

Academic counseling

Location

Cécile & Oskar Vogt Institute for Brain Research
Life Science Center (LSC)
Building 97.36, 3rd floor
Merowinger Platz 1a
40225 Düsseldorf

Phone: +49 (0) 211 81 06101

Fax: +49 (0) 211 81 06154

<https://www.uniklinik-duesseldorf.de/patienten-besucher/klinikeninstitutezentren/c-u-o-vogt-institut-fuer-hirnforschung>

Study programme contact

Do you have any questions about Translational Neuroscience? Please do not hesitate to contact someone of our coordinators and/or academic advisors. **Personal appointments please only after prior agreement.**



Anna Stössel
Coordinator

+49 (0) 211 81 06101

✉ stoessa@hhu.de



Dr. Evelyn Oermann
Academic Advisor

+49 (0) 211 81 06104

✉ oermann@hhu.de



Dr. Manuel Marx
Advisor Applications

+49 (0) 211 81 06103

✉ marxma@hhu.de

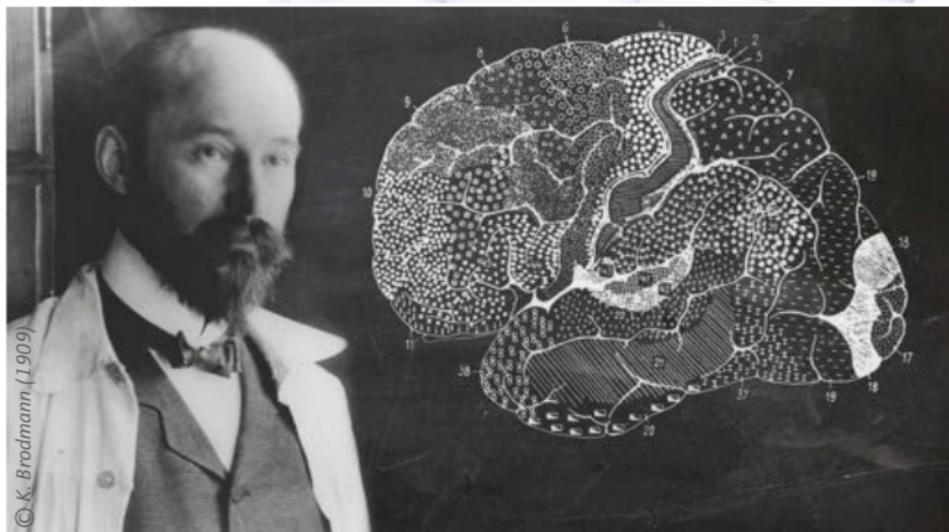
Additional information about the study programme and the Master modules can be found on the website of Translational Neuroscience.

www.translationalneuroscience.hhu.de

TRANSLATIONAL NEUROSCIENCE

Neuroscience is a rapidly growing field of science of great relevance to society. Basic research has provided valuable insights into the development, aging, function, and dysfunction of the brain and has shown multiple ways to modulate brain processes. Translational neuroscience uses this knowledge and technological advances to help developing new diagnostic procedures and therapies for patients with neurological or psychiatric disorders.

This anglophone international Master study programme is consecutive to a Bachelor programme and is addressed to students interested in basic and clinical research in neuroscience. All relevant information can also be found on the official website of Translational Neuroscience.



Our two-year Master programme provides students with a profound knowledge and understanding of normal brain structure and function as well as relevant mechanisms of brain diseases.

The faculty members are experienced academic teachers and scientists who are specialized in brain research as well as translational and clinical neuroscience. The programme is inherently interdisciplinary and a broad spectrum of modern neuroscience methods will be offered, e.g. modules in cellular, molecular and systems neurobiology, neuroimmunology, behavioral and cognitive neuroscience, as well as modern neuroimaging.

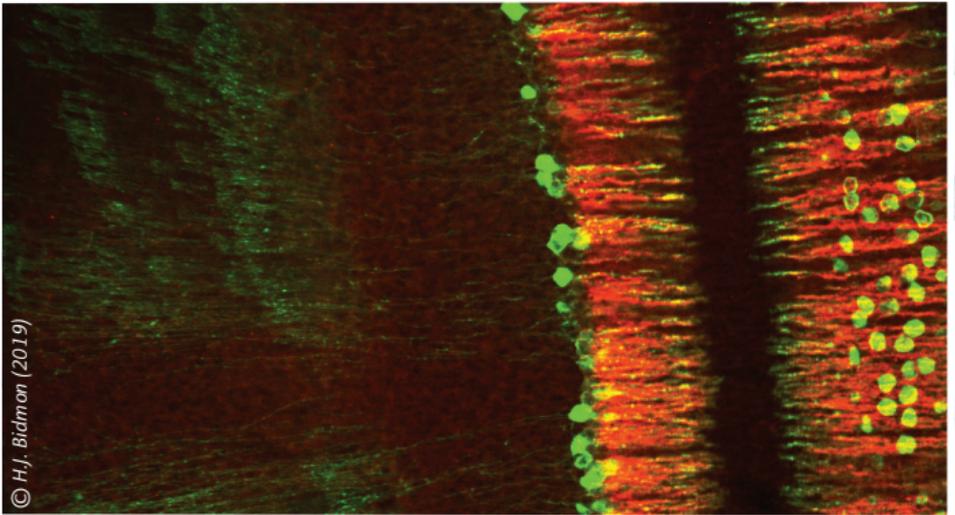
Entry/admission requirements

The entry and admission is conditional on the completion of a university study programme in a relevant subject with a regular study duration of at least six semesters (equivalent to 180 ECTS), a final grade of 2.0 or better (according to the German grading system), and in which you have acquired the following credit points (CP=ECTS):

- ▶ 4 CP in Cell or Molecular Biology **or**
- ▶ 4 CP in Biochemistry **or**
- ▶ 4 CP in (Bio)Psychology **or**
- ▶ 4 CP in Physiology and/or (Neuro)Anatomy **and**
- ▶ at least 2 CP from practical experience (internships/exercises)

English language proficiency should be at least level B2 of the Common European Framework of Reference for Languages.

**Open for application
from 15th May - 15th July**



Programme content

Translational Neuroscience consists of six Master modules and two research-oriented internships. Besides hands-on skills in special techniques, basics for independent scientific work will be conveyed. Graduates of this Master programme are ideally qualified for their later working life and qualified to embark on a doctorate. One broad career field is research & diagnostics of neurodegenerative diseases in the clinical setting, at universities and pharmaceutical industries. Further areas of employment are work at scientific publishers or in scientific coordination.

A doctorate improves the prospects for responsible work and is a prerequisite for an academic career. Teaching and examinations are in English. The workload is equivalent to 120 credit points (CP = ECTS).

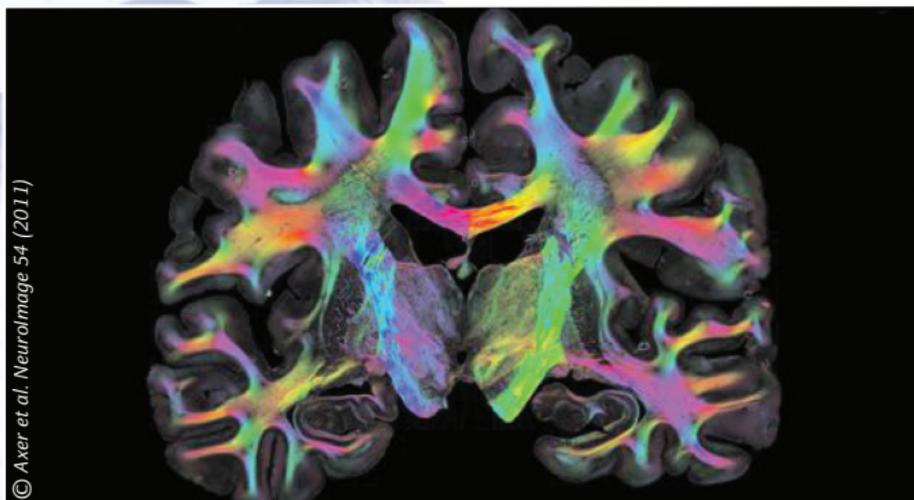
Curriculum

1 st Semester	2 nd Semester	3 rd Semester	4 th Semester
Module 1 <i>Neuroanatomy & Neurophysiology</i> 10 CP	Module 4 <i>Methods in Neurosciences II</i> 8 CP	Pilot Project 15 CP	Master Thesis 30 CP
Module 2 <i>Methods in Neurosciences I</i> 6 CP	Module 5 <i>Translational Neuroscience II</i> 14 CP		
Module 3 <i>Translational Neuroscience I</i> 14 CP	Module 6 <i>Research Ethics and Technics</i> 8 CP	Project Proposal 15 CP	

Why studying in Düsseldorf?

There are strong reasons to study Translational Neuroscience at the Heinrich-Heine-University (HHU) Düsseldorf.

The programme is administered exclusively by internationally recognized scientists with expertise in neuroanatomy and physiology, neuropathology, preclinical studies, including those involving animal models, neuropharmacology and immunology, modeling, brain development and aging, such as clinical neuroscience. They provide a fascinating insight into the large and constantly growing field of translational neuroscience. In addition to the excellent research facilities on the HHU campus, the study programme provides access to the Research Centre Jülich with laboratory and neuroimaging equipment that is among the best in the world.



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Apply now!