University of Zurich[UZH]

Faculty of Science

INTERDISCIPLINARY BRAIN SCIENCES

JOINT DEGREE

Understanding how a healthy brain works and the neural states that underpin mental illness to develop more effective treatments are key objectives in the field of neurosciences. Challenging the current research requires specialists who understand the relationships between biology, technology and clinical neurology.

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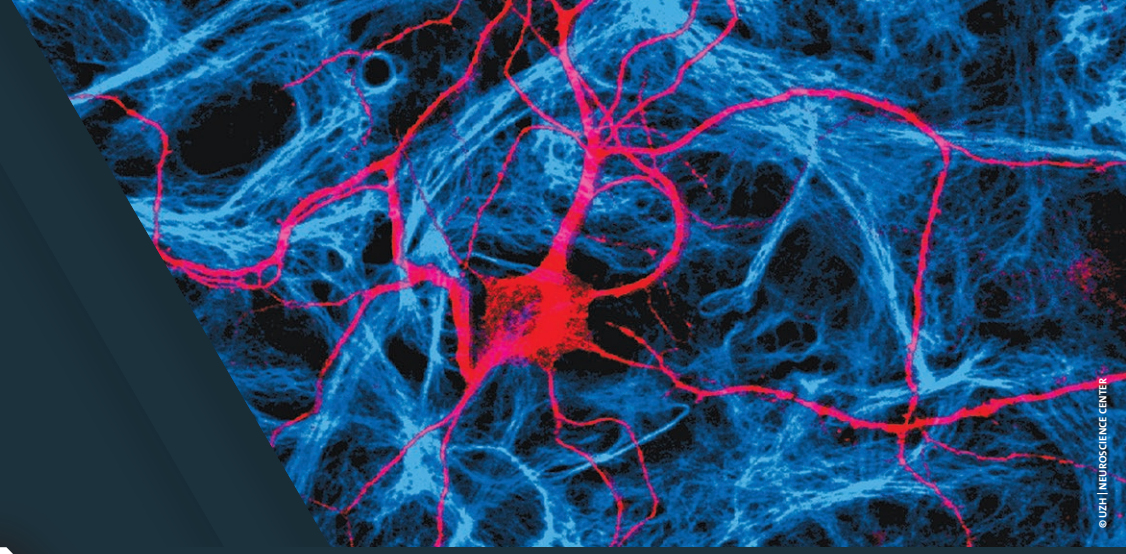
GOALS OF PROGRAM

The MSc IDB is a joint program of the University of Zurich (UZH) and the Swiss Federal Institute of Technology of Zurich (ETHZ).

The program focuses particularly on laboratory practice. The strong practical component of the program ensures that students become familiar with broad range of techniques, analyses and treatment methods in neuroscience. This will be complemented by an internship in a company or a clinic.

Students will be trained and mentored in the following three main areas:

- Brain Biology
- Systems, Computation and Neural Technology
- Translational, Clinical and Cognitive Neuroscience



JOINT DEGREE: INTERDISCIPLINARY BRAIN SCIENCES

MONO 90 ECTS

PROFESSIONAL PERSPECTIVES

The MSc IDB provides trans-disciplinary knowledge and skills covering the broad spectrum of neuroscience research, and prepares researchers for their first years of independent research in academia or industry.

Graduates are equally well-prepared for a career in university research as for one in clinical research or in industry.

The program also delivers biological and technological tools for a career in medical technology.

MASTER STUDY PROGRAM

The program consists of core modules, elective core modules, a Master's thesis and an internship in a clinic or a company.

- 6-weeks laboratory work within all three main areas
- 6-months Master's thesis
- 2-12 months internship in a clinic or a company

The first semester concentrates on **CNS genomics/proteomics, neuroimmunology, neural imaging, brain systems, deep learning and neural technologies.**

In the second semester, students learn about a range of methods used in **translational neuroscience, but also in daily clinical and therapeutic practice. This module encompasses both the characterisation of mental disorders and preventative approaches from psychology. Courses in ethics and neuroeconomics com**plete this thematic area.

POSSIBLE MINOR COMBINATIONS

30 MINOR ECTS

The IDB program is a full-time, specialized Masters program, it cannot be combined with a minor.

The MSc IDB is open to international students with a Bachelor's degree in various disciplines: neuroscience, biology, biomedicine, biochemistry, biotechnology, health sciences, electrical engineering, engineering, physics, pharmacy, computer science, psychology, chemistry or mathematics.

ADMISSION

Electronic application requiring the following documents:

- Curriculum vitae (resume)
- A max. one-page motivation letter
- Full details about your Bachelor's degree
- For non Swiss citizens: a short financial statement

You are required to provide the following information:

- Names of two preferred mentors
- At least one referee contact information

CONTACT

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CONTACT