



University of Helsinki

- Founded in 1640
- Operates on 4 campuses in Helsinki and at 19 other locations
- 4,000 researchers and teachers
- 35,000 students (+ 60,000 participate in adult education)

University of Helsinki

4 Campuses / 11 Faculties

City Centre Campus

- Arts
- Theology
- Law
- Behavioural Sciences
- Social Sciences

Kumpula Campus

- Science (Physics and chemistry)

Viikki Campus

- Biological and Environmental Sciences
- Agriculture and Forestry
- Veterinary Medicine
- Pharmacy

Meilahti Campus

- Medicine

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Viikki Campus

Faculty of Biological and Environmental Sciences

Department of Biosciences



CORE FACILITIES

- Transgenic animals unit
- Mouse behavioral unit
- Neuronal cell culture unit
- Zebrafish unit
- Functional MRI unit
- Electrophysiology
- Protein chemistry
- Protein crystallisation
- Electron microscopy unit & CryoEM
- Stem cells
- DNA sequencing unit
- Bioinformatics unit

University of Helsinki

- **3-cycle education** (Bologna process):
Bachelor of Science (B.Sc.) 180 ECTS
Master of Science (M.Sc.) 120 ECTS Total 300 ECTS
Doctor of Philosophy (Ph.D.) 60 ECTS Total 360 ECTS
- **European Credit Transfer and Accumulation System (ECTS):**
60 ECTS credits = 1500-1800 hours of study
- >30 International **Master's Programmes** (e.g. in Neuroscience)
- 33 Graduate Schools / **PhD programmes** (e.g. FGSN)



Finnish Graduate School of Neuroscience (FGSN)

Professor Kai Kaila,
Chairman



Dr. Katri Wegelius,
Coordinator

Viikki Biocenter 3
Department of Biosciences
University of Helsinki, Finland

<http://www.helsinki.fi/fgsn>

Finnish Graduate School of Neuroscience - FGSN

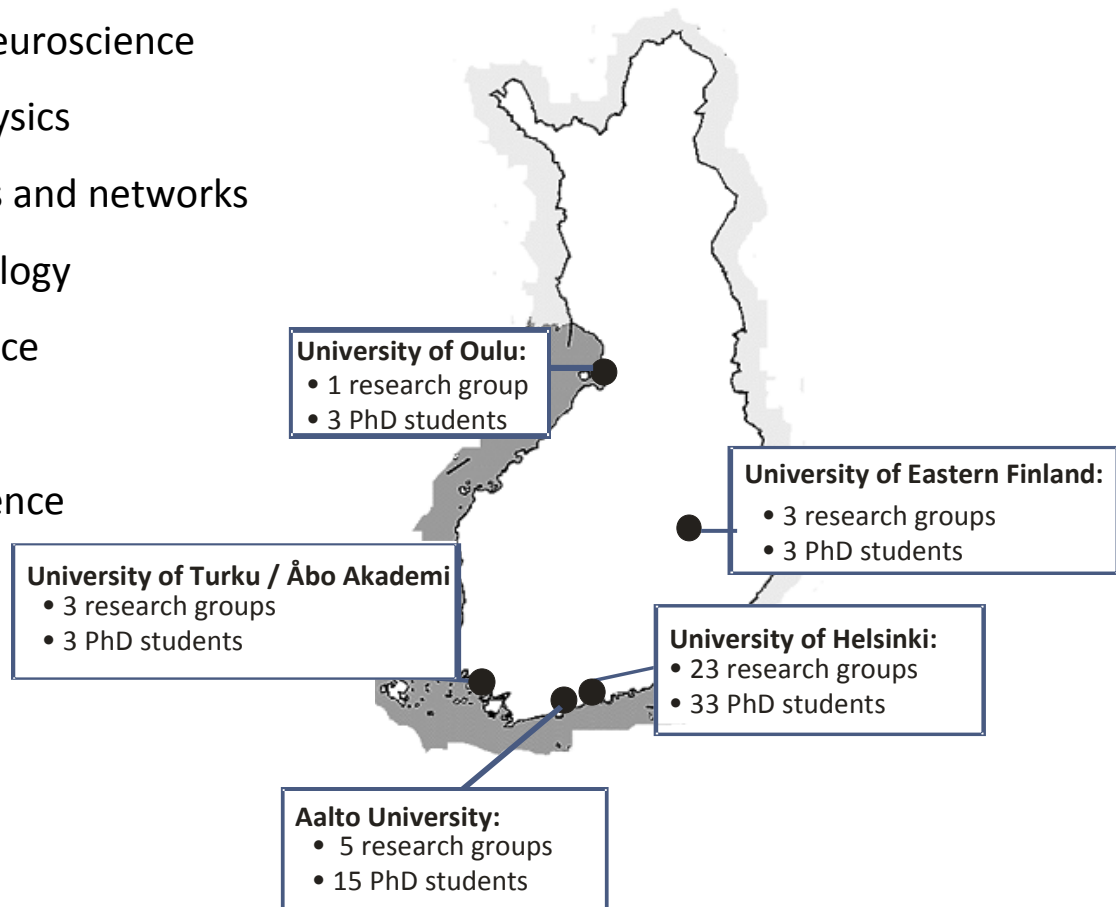


- Provides doctoral training in different fields of neuroscience.
- **Multidisciplinary:** molecular and cellular neuroscience, transport physiology, electrophysiology of cells and networks, developmental neurobiology, neurobiology at the systems level, neuronal modelling, imaging of human brain functions, neuropsychology, neuropathology and degenerative diseases
- 39 research groups
- 58 PhD students → PhD in Biology / Technology / Medicine / Psychology /
Cognitive sciences
- Core funding: up to 4-year full-time positions
- Organizes international symposia, lecture series, hands-on courses, provides funding for travel expenses



RESEARCH AND TRAINING

- Cellular and molecular neuroscience
- Membrane electrophysics
- Electrophysiology of cells and networks
- Developmental neurobiology
- Systems level neuroscience
- Neuronal modelling
- Computational neuroscience
- Brain imaging
- Neuropsychology
- Brain diseases





Funding

Ministry of Education:

- 4-year funding for doctoral training (about 5 starting positions/year)



Academy of Finland:

- Courses, travelling



Universities / Foundations / EU / etc.

- Matching Funds Students
- Research
- Courses, travelling



PhD degree in Finland

- Postgraduate studies: Courses, book exams etc. 60 credits
- PhD thesis: Research work → results published in peer-reviewed journals →
2-5 publications + literature review
- 2 pre-examiners of the thesis
- Public defence of the thesis



PhD training

- multidisciplinary training in neuroscience
- basic courses in different universities / disciplines
- FGSN student symposium annually
- FGSN international symposium annually / biannually
- lecture courses
- methodological courses
- book exams
- laboratory rotation
- complementary training / soft skills



Course list available at: www.helsinki.fi/fgsn



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