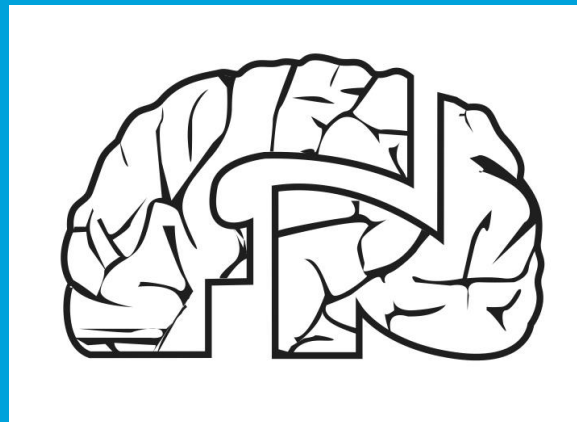


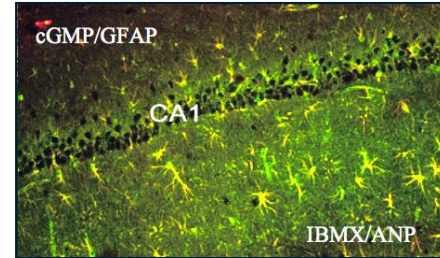
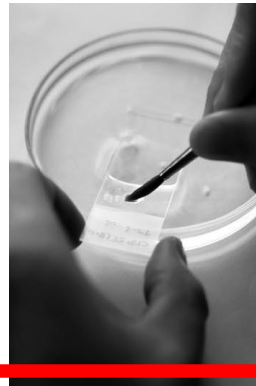
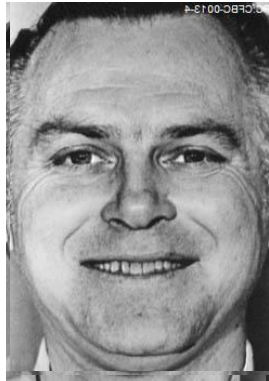
Research Master Fundamental Neuroscience

Prof. Dr. Jos Prickaerts
Coördinator
24 March 2018

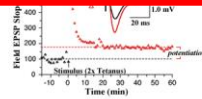
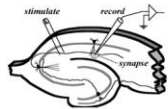


Why study FN?...

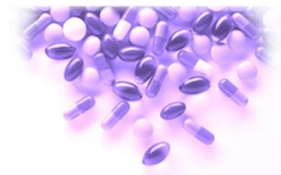
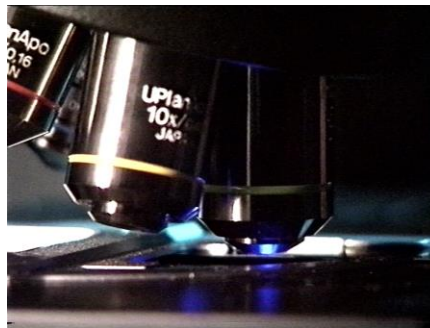
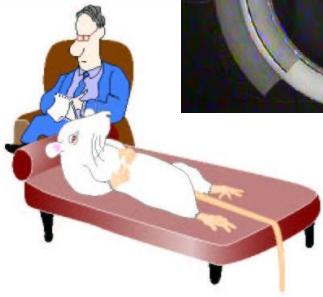
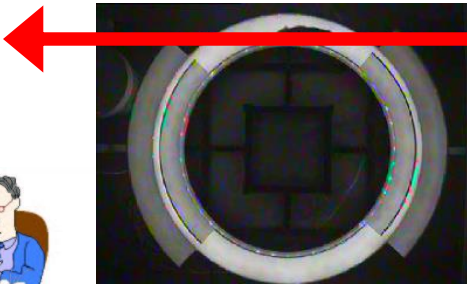
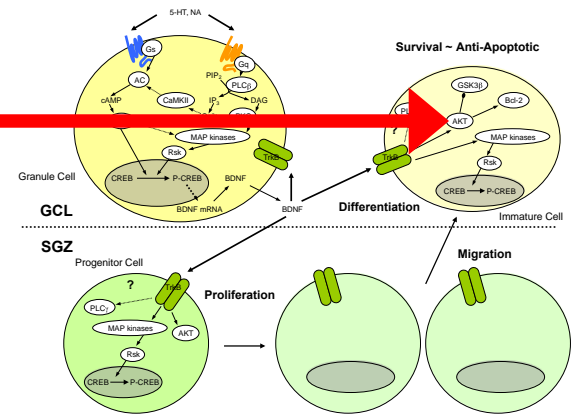
... What do you study?



Recording LTP in Hippocampal Slices



Cell Proliferation and Survival in the Dentate Gyrus



FN specialisation - general

- Focus on underlying molecular/biological mechanisms of psychological, psychiatric and neurological disorders
- Topics include cell signalling, brain plasticity, neurodegeneration, regeneration, pain, neuroinflammation and (epi)genetics
- Translational setting: both animal and human research
- Scientific career as a researcher in both academia and industrial setting
- 22 students started in 2018



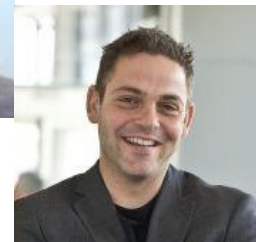
Curriculum elements (2 years)

- Core courses: *research techniques and topics*
- Skills trainings: *hands-on techniques (mostly included into courses)*
- Workshops: *research designs*
- Advanced statistics: *essential methods*
- Interdisciplinary Research Program: *widening perspectives*
- Individualised Elective: *pursue your own interests*
- Internship: *from theory to practice*
 - *Research internship and masters thesis (32 weeks)*



FN Staff

- Specialisation embedded in both
 - Faculty of Psychology and Neuroscience (FPN)
 - Faculty of Health, Medicine and Life Sciences (FHML)
- Professionals
 - Biologists
 - Molecular Biologists
 - Biological Psychologists
 - Neuropsychologists
 - Neurobiologists
 - Neuroanatomists
 - Psychopharmacologists
 - Immunologists
 - Psychiatrists



Core Courses



- Animal Laboratory Sciences
- Individualized Elective

- Introduction to (parallel program)
 - Psychology (~biology students)
 - Molecular and Biochemical Techniques (~psychology students)
- Neuroanatomy
- Biopsychological Neuroscience
- Neurodegeneration
- Neuroplasticity and Pain
- Neuroimmunology and Inflammation
- Neurological Neuroscience
- Psychiatric Neuroscience
- Electrophysiology

Internship (32 weeks)

- More than 80% students outside Maastricht at prestigious universities/institutes (e.g. Oxford, Karolinska, Penn, Salk, MIT, Harvard, Max-Planck, King's College etc.)
- Via international network of FN staff

Career path

- Almost exclusively PhD student
- Industry, foundations, TTO, etc.

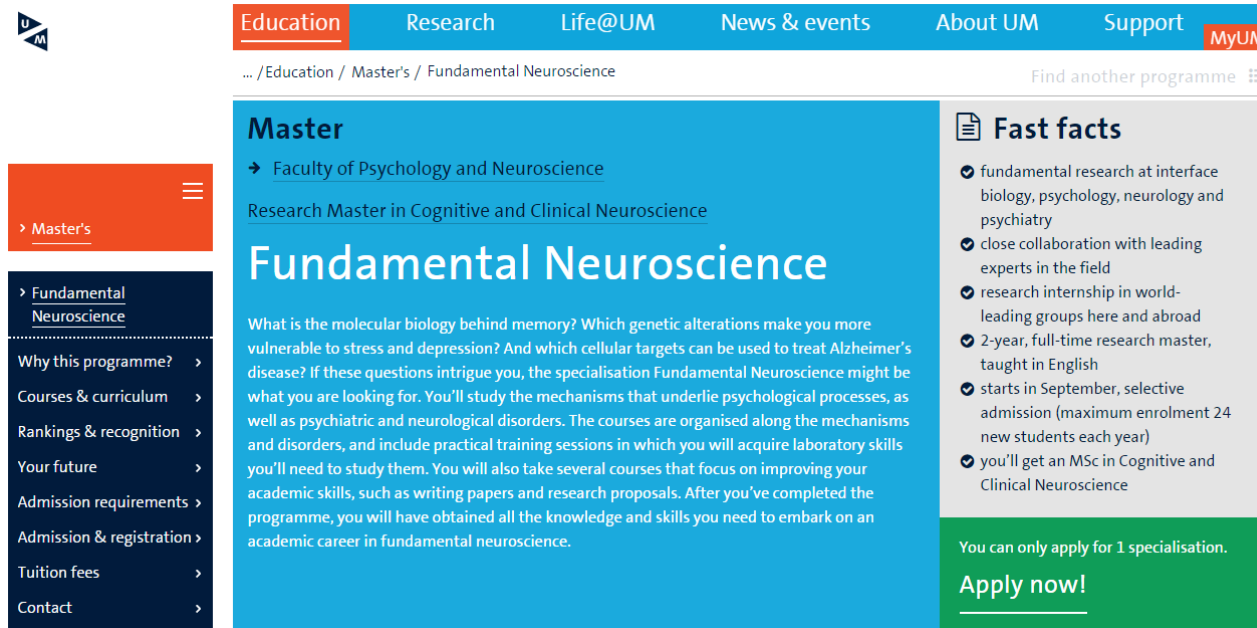


Who can apply

- Students with a BA in:
 - Biological Psychology
 - (Molecular) Biology
 - Life Sciences
 - Medicine
 - Bioengineering
 - Chemistry
 - Pharmacy
 - ...



For more information:



The screenshot displays the Maastricht University website for the Master's programme in Fundamental Neuroscience. The navigation bar includes links for Education, Research, Life@UM, News & events, About UM, Support, and MyUM. The breadcrumb trail shows the path: /Education / Master's / Fundamental Neuroscience. A search bar is available for finding other programmes.

Master
→ Faculty of Psychology and Neuroscience
Research Master in Cognitive and Clinical Neuroscience

Fundamental Neuroscience

What is the molecular biology behind memory? Which genetic alterations make you more vulnerable to stress and depression? And which cellular targets can be used to treat Alzheimer's disease? If these questions intrigue you, the specialisation Fundamental Neuroscience might be what you are looking for. You'll study the mechanisms that underlie psychological processes, as well as psychiatric and neurological disorders. The courses are organised along the mechanisms and disorders, and include practical training sessions in which you will acquire laboratory skills you'll need to study them. You will also take several courses that focus on improving your academic skills, such as writing papers and research proposals. After you've completed the programme, you will have obtained all the knowledge and skills you need to embark on an academic career in fundamental neuroscience.

Fast facts

- ✔ fundamental research at interface biology, psychology, neurology and psychiatry
- ✔ close collaboration with leading experts in the field
- ✔ research internship in world-leading groups here and abroad
- ✔ 2-year, full-time research master, taught in English
- ✔ starts in September, selective admission (maximum enrolment 24 new students each year)
- ✔ you'll get an MSc in Cognitive and Clinical Neuroscience

You can only apply for 1 specialisation.

[Apply now!](#)

Left sidebar menu:
Master's
Fundamental Neuroscience
Why this programme? >
Courses & curriculum >
Rankings & recognition >
Your future >
Admission requirements >
Admission & registration >
Tuition fees >
Contact >

<https://www.maastrichtuniversity.nl/education/master/research-master-cognitive-and-clinical-neuroscience-specialisation-fundamental>

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