



Research Master in Cognitive and Clinical Neuroscience

Drug Development and Neurohealth

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Specialisation

Coordinator



Drug Development and Neurohealth (DN)

- Started in 2016
- The brain doesn't distinguish between medicines and illegal substances
- DN teaches how to find and make new brain medicines

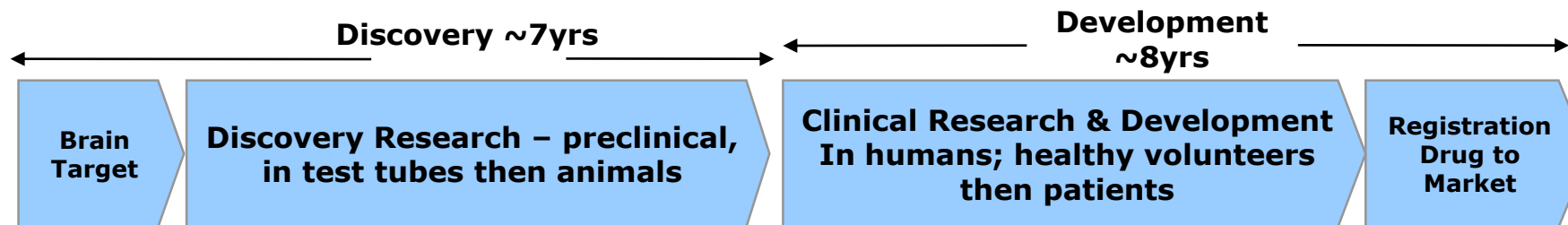


Drug Development and Neurohealth

- Research of new drugs in CNS disorders
- neurochemical **brain targets** of CNS disorders
- **multidisciplinary**: neuroscience, toxicogenomics, (psycho-)pharmacology, biological psychiatry
- from “cells in tubes” to “new medicines in patients”
- Research career: academia, industry, government

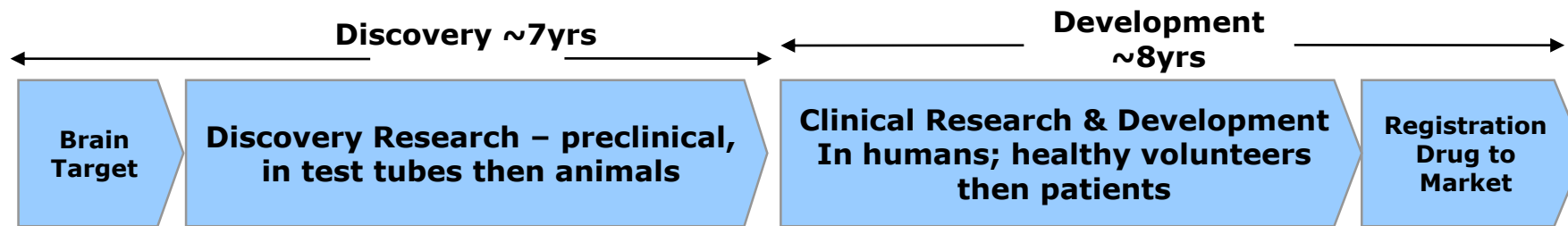


Courses aligned to drug research & development pipeline



This is about finding new medicinal drugs and making them work for dementia, depression, schizophrenia, autism, ADHD,, basically all neuropsychiatric diseases that can be targeted biologically

Courses aligned to drug research & development pipeline



Target Discovery Drug Discovery Safety & Drug Metabolism Clinical Development Pharmacoepidemiology
 Genetics Psychiatric Neuroscience Neuropsychopharmacology Applied Therapeutics
 Big Data in Drug Discovery Animal Models Electrophysiology Biomedical Brain Imaging
 Introduction to: Molecular & Biochemical Techniques / Psychology Project management Valorisation
 Robot-based high-throughput screening In silico Drug Discovery Western Blotting Neuroanatomy
 Advanced Statistics I and II, SPSS, LISREL, Colloquia, Scientific Writing, Grant Writing, Electives

Core Courses Practicals Workshops Parallel Courses

Staff from different Faculties and Departments

Faculty	Health, Medicine & Life Sciences			External	Psychology & Neuroscience	University Hospital		
Department	Pharmacology	Toxicogenomics	Neuroscience	Suadeo Boston, USA	Neuropsychology & Psychopharmacology		Clinical Pharmacy & Toxicology	
								
								

Develop your own profile !

 Go
the
mile **extra**

- Choose / identify your position in the pipeline
 - Preclinical
 - In Vitro, Cell lines, Cell cultures
 - Big Data Neurogenomics, In-Silico Discovery
 - Preclinical Discovery, Animal Models, Psychopharmacology
 - Clinical
 - Test drugs or nutrients in volunteers or patients
 - Experimental Clinical Human Psychopharmacology
 - Clinical effects of medicines: Pharmacoepidemiology
- Electives – 5% of curriculum you choose yourself
- Internship – 42% of your curriculum in Academia or Industry

Career paths of DN graduates

Go
the extra
mile

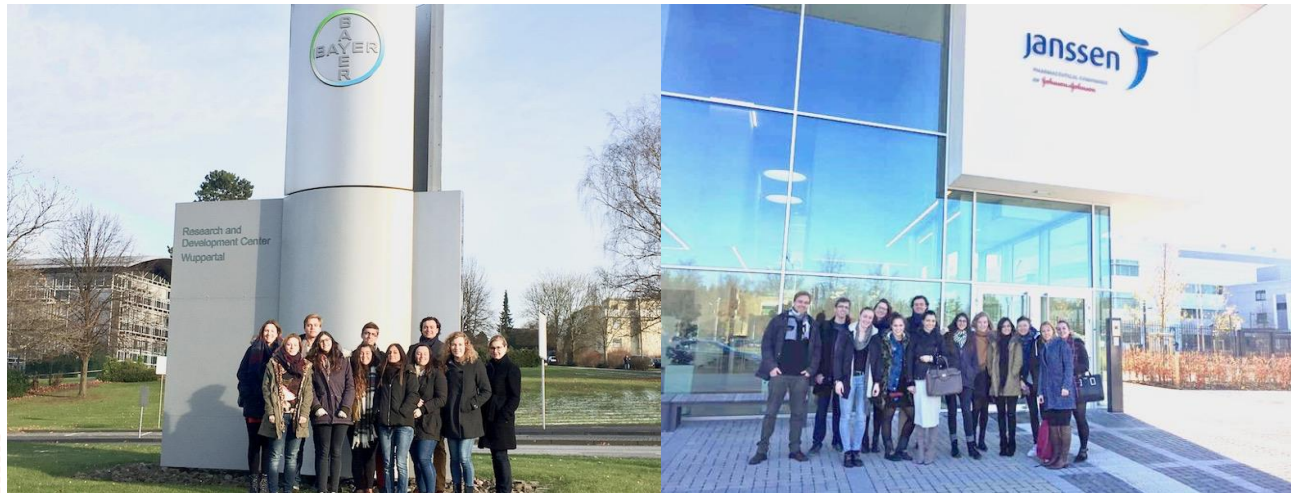
PhD training → R&D position in:

- *Academia*
- *Healthcare*
- *Nutrition Industry*
- *Pharmaceutical Industry*
- *Governmental Regulatory Office*
- *Research Consortium in EU or NIMH*

- 2016: first cohort of 14 students → now doing their internships
- 4 in Industries (2 Roche, Basel; 1 Antidote Therapeutics, Washington; 1 Grünenthal, Aachen)
- 10 in Universities (2 Harvard, USA; 2 Cork, Ireland; 1 Fukuoka, Japan; 1 Ottawa, Canada; 3 Maastricht; 1 Amsterdam)

Excursions to companies in the first year:

- UCB (Brussels, Belgium)
- Johnson & Johnson (Beerse, B)
- Bayer (Wuppertal, Germany)
- Grünenthal (Aachen, Germany)



Who can apply

Students with a BA in:

- Neuroscience
- Psychology
- Biomedical Science
- Pharmacy
- Medicine
- Life Sciences
- Bioengineering
- University College
- Science College
- ...



For more information

- Talk with student and coordinator after the presentation

- Contact DN coordinator: rudy.schreiber@maastrichtuniversity.nl

- Visit UM website:

Google:

Drug Development
Maastricht

The screenshot shows the Maastricht University website navigation and a specific program page. The top navigation bar includes 'Education', 'Research', 'Life@UM', 'News & events', 'About UM', and 'Support'. Below this, the breadcrumb trail reads '/Education / Master's / Drug Development and Neurohealth'. The main content area is titled 'Master' and 'Drug Development and Neurohealth', with a sub-header 'Research Master in Cognitive and Clinical Neuroscience'. A sidebar on the left lists navigation options: 'Master's', 'Drug Development and Neurohealth', 'Why this programme?', 'Courses & curriculum', 'Rankings & recognition', 'Your future', 'Admission requirements', 'Admission & registration', 'Tuition fees', and 'Contact'. A 'Fast facts' section on the right lists key features of the program, such as being a first multidisciplinary academic training, offering research internships, and being a 2-year full-time master's taught in English. A green button at the bottom right says 'Apply now!'.

- Facebook site: <https://www.facebook.com/MaastrichtRMDN/>