



Maastricht University *Leading in Learning!*

NEUROSCIENCES

Maastricht University





Maastricht University

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in Learning!*

(Research) Master Programmes

School for Mental Health and Neuroscience (MHeNS)

MHeNS Strategy

To Integrate Clinical and Basic Neuroscience



Master

- **Master in Molecular Life Sciences** (2y) Four profiles, each linked to a School within Medicine

-Oncology and Developmental Biology (ODB) 

-Cardiovascular Biology and Medicine (CBM)



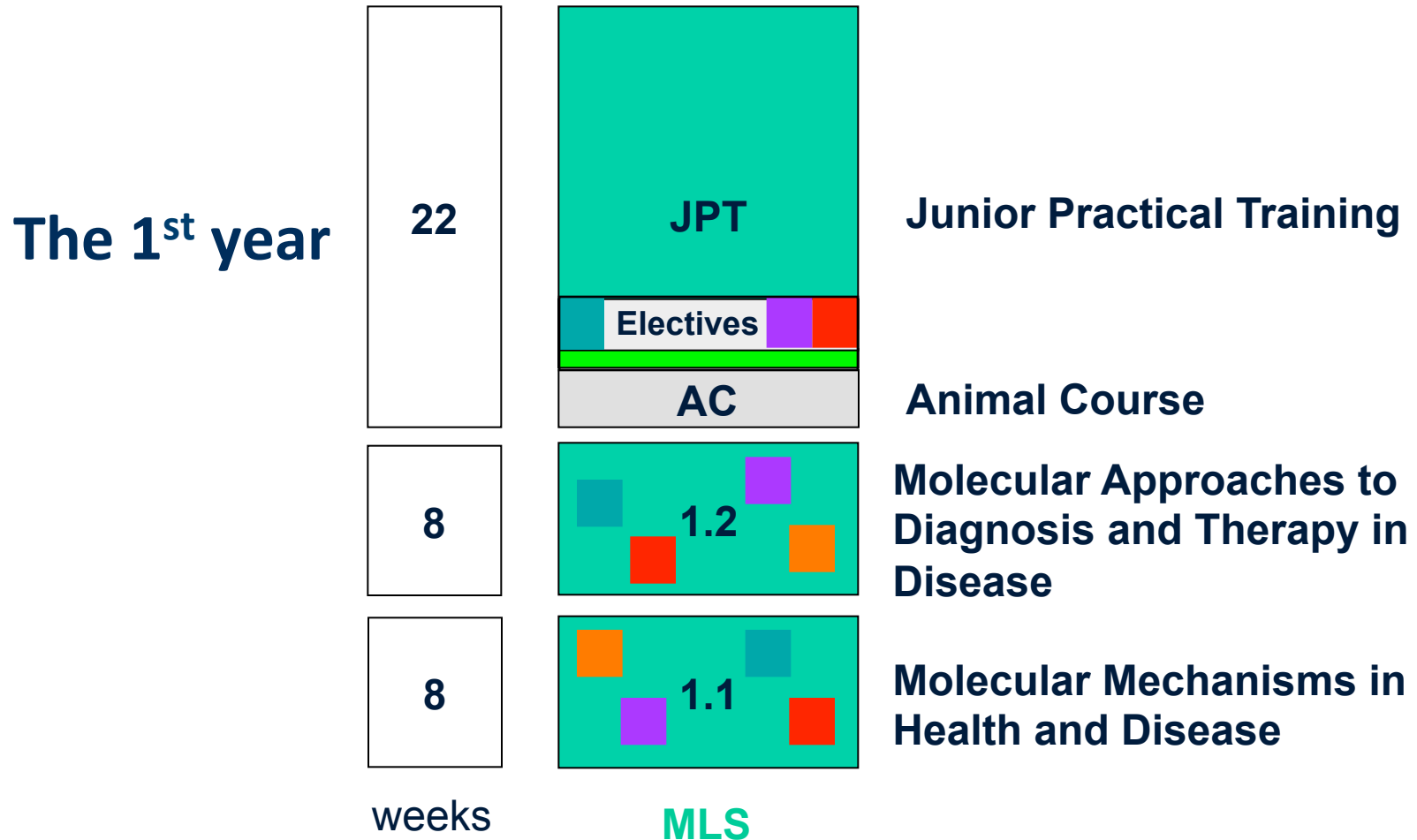
-Nutrition and Metabolism (N&M) 

-**Neuroscience (NS)**



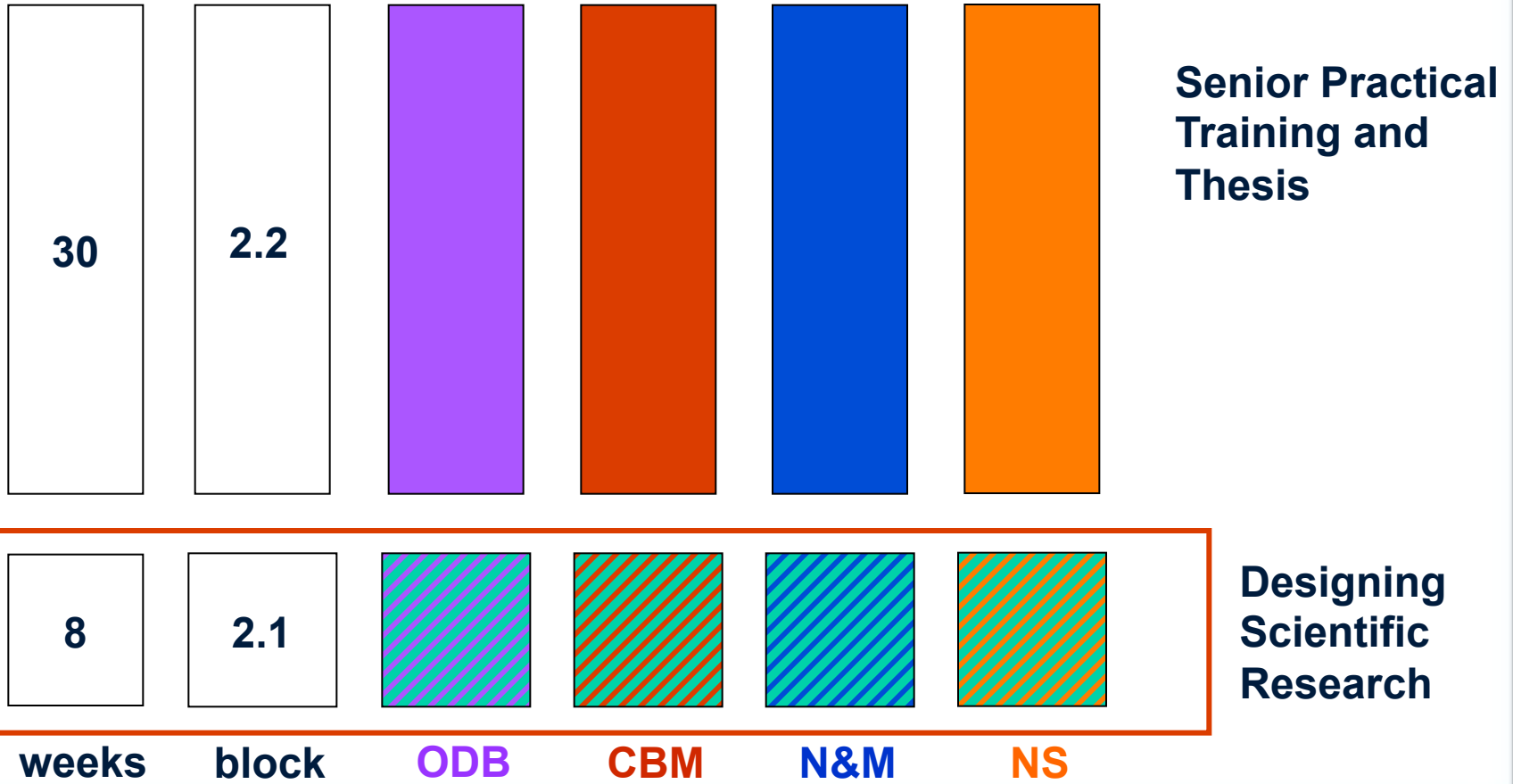
- Master will be renamed Biomedical Sciences (as bachelor)

Molecular Life Sciences Program 2011/12



Molecular Life Sciences Program 2012/13

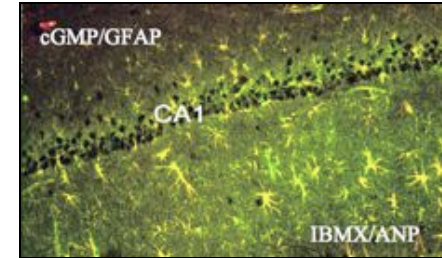
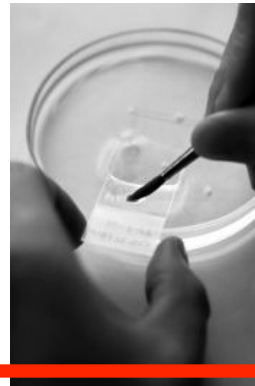
The 2nd year: the different profiles



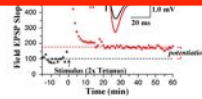
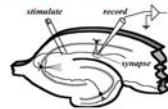
Research Masters

- **Research Master in Cognitive and Clinical Neuroscience**
(2y) Four tracks within Psychology as well as Medicine
 - **Fundamental Neuroscience**
 - Psychopathology
 - Neuropsychology
 - Cognitive Neuroscience

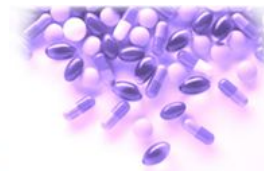
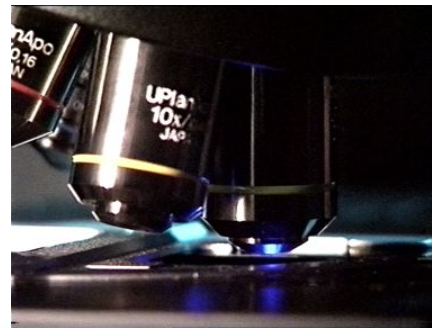
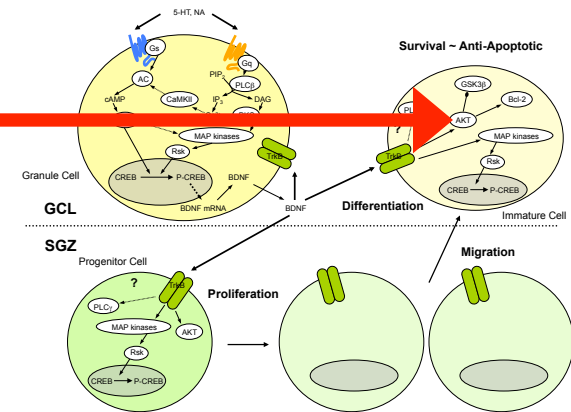
Why study FN?.. ...What do you study?



Recording LTP in Hippocampal Slices

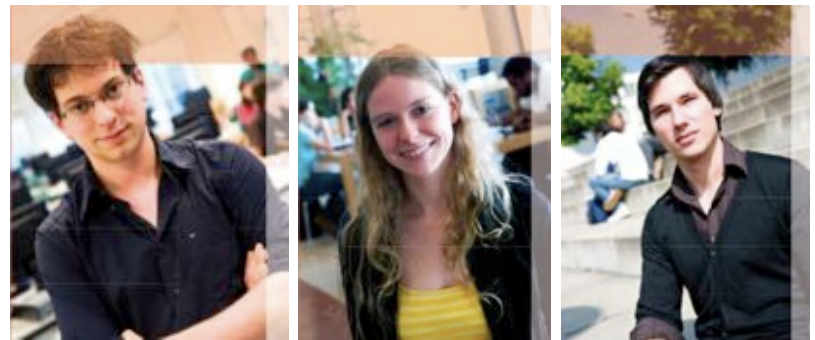


Cell Proliferation and Survival in the Dentate Gyrus



FN Track - general info

- 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
- Started in 2009



Core courses



- Animal Laboratory Sciences
- Individualized Elective

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

Who can apply

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



Internships

- Stimulated to go abroad
- Both Academia and Industry
- To strengthen collaboration with MHeNS
- Part of PhD student project (3:2:3 program)

Careers after the PhD

Field	Brain and Cognition	Mental Health Ecogenetics	Neuroscience	Total
University Health Care	1	9	11	21
Health Care General	8	4		12
Industry	1	1	2	4
University General		2		2
University Research	20	11	12	43
Research other institute	5			5
Other		1	3	4
Total	35	28	28	91

Table A.12.1 Continuation careers after PhD 2002-2007

57% research
 36% clinical
 8% other

73% in academic setting