

NEUROSCIENCE STUDY TRACK

Co-Directors:

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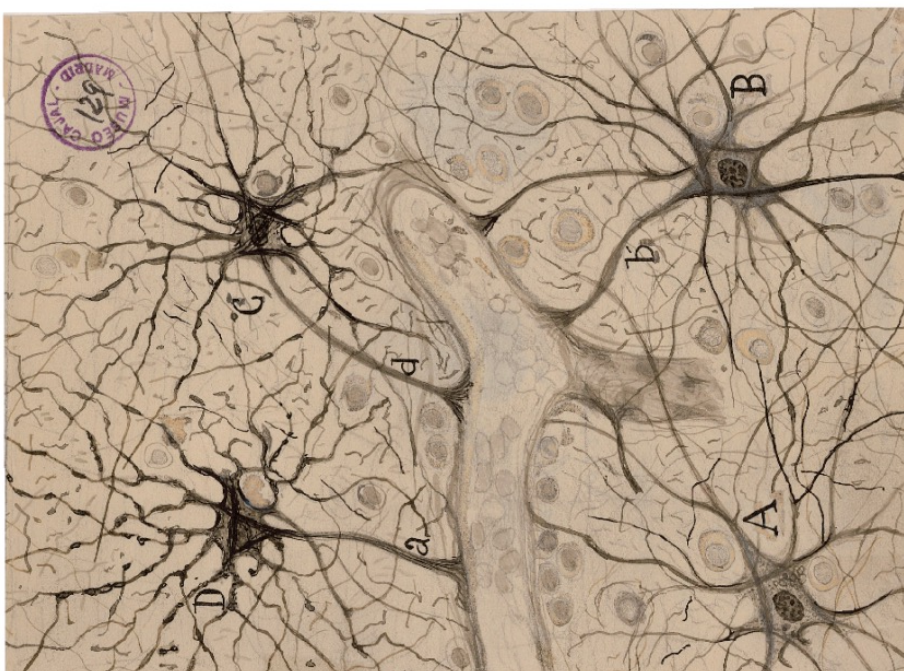
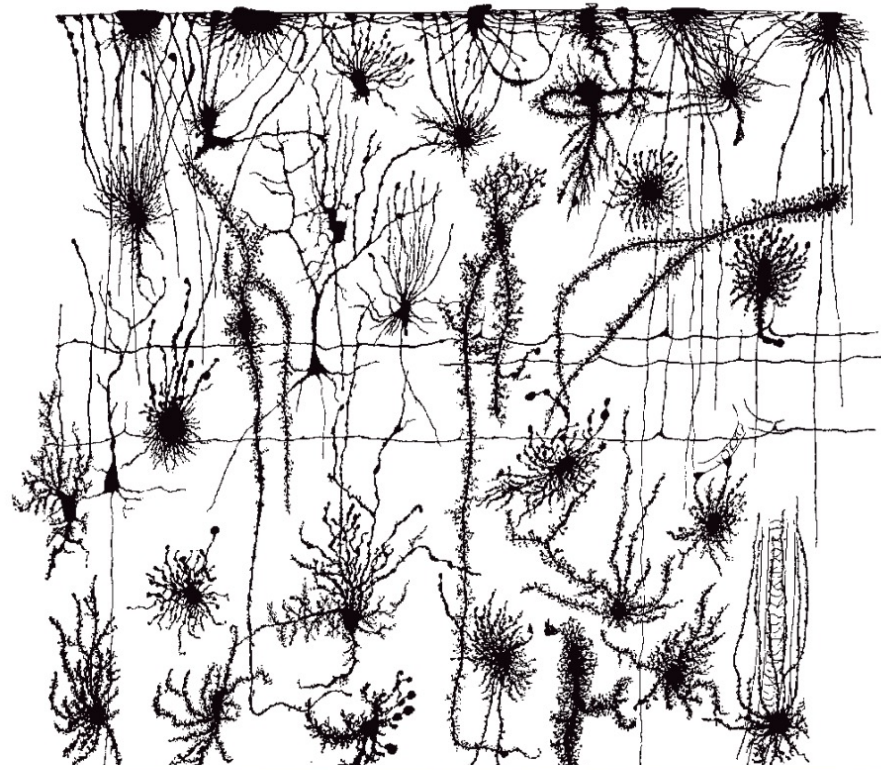


Why study Neurosciences?

- The brain is the most complex living structure
- We have ~100'000'000'000 (100 billion) nerve cells in our brain
- They make more than a trillion connections (synapses)

Why study Neurosciences?

- There are almost the same amount of glial cells as neurons (astrocytes, oligodendrocytes, microglia)
- Glial cells influence neurons in many ways



Why study Neurosciences?



- The nervous system controls **everything** we do:
movement, pain, sleep, appetite, learning, memory, emotions, vision, hearing, consciousness, thoughts, intelligence, creativity...
- Current knowledge is only the "tip of the iceberg" and there is plenty to be better understood or discovered!

Curriculum in Neurosciences



- 1st year BSc: Nervous tissue
(Module: Biologie cellulaire des tissus)
- 2nd year BSc: Intro. to neurosciences
- 3rd year BSc: Neurobiology
(Module: Physiologie des systèmes complexes) + optional courses
- MSc in Medical Biology: Neuroscience track
- Lemanic Neuroscience Doctoral school

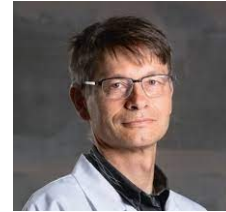
1st semester of the Master in Medical Biology:

Neuroscience Disorders:

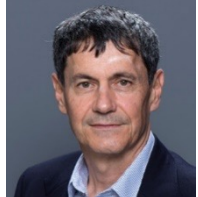
10h course + 2h article presentations



Jean-René Cardinaux,
Center for Psychiatric Neurosciences (CNP)



Pascal Steullet,
Center for Psychiatric Neurosciences (CNP)



Jean-Yves Chatton,
Dept. of Fundamental Neurosciences (DNF)

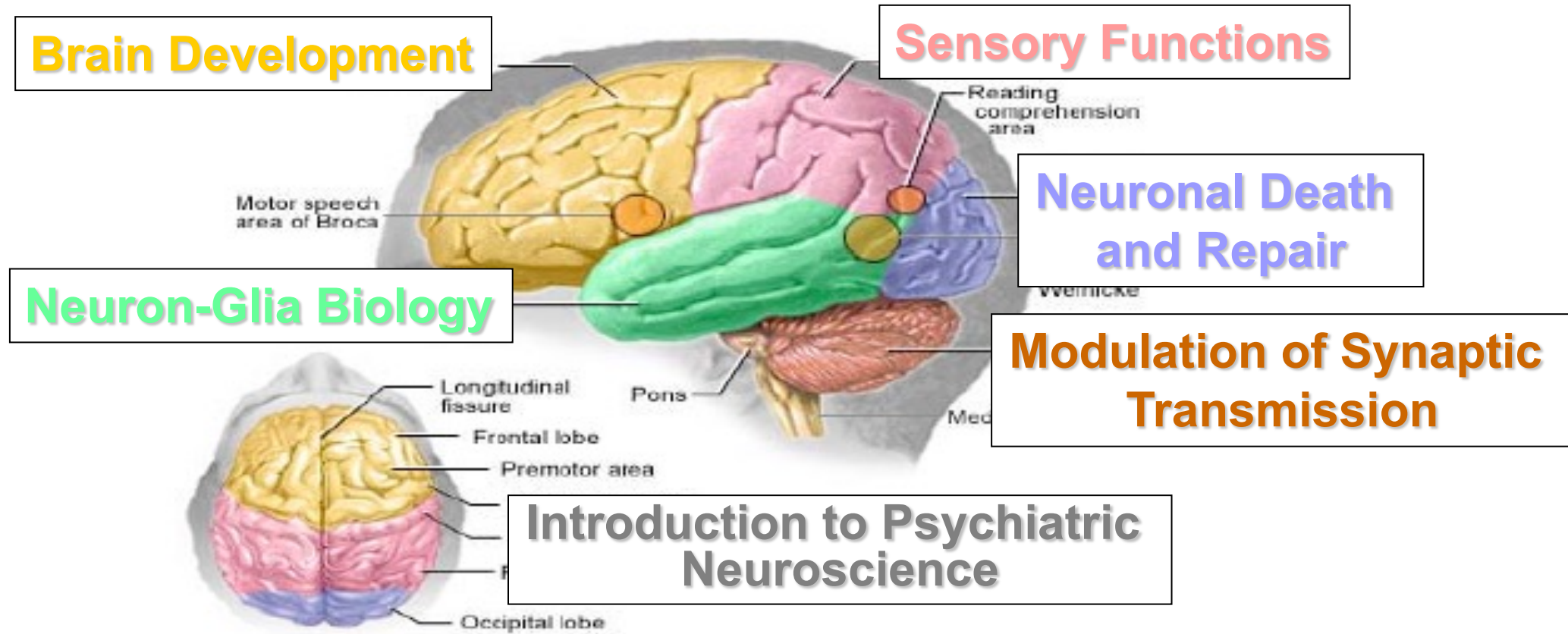


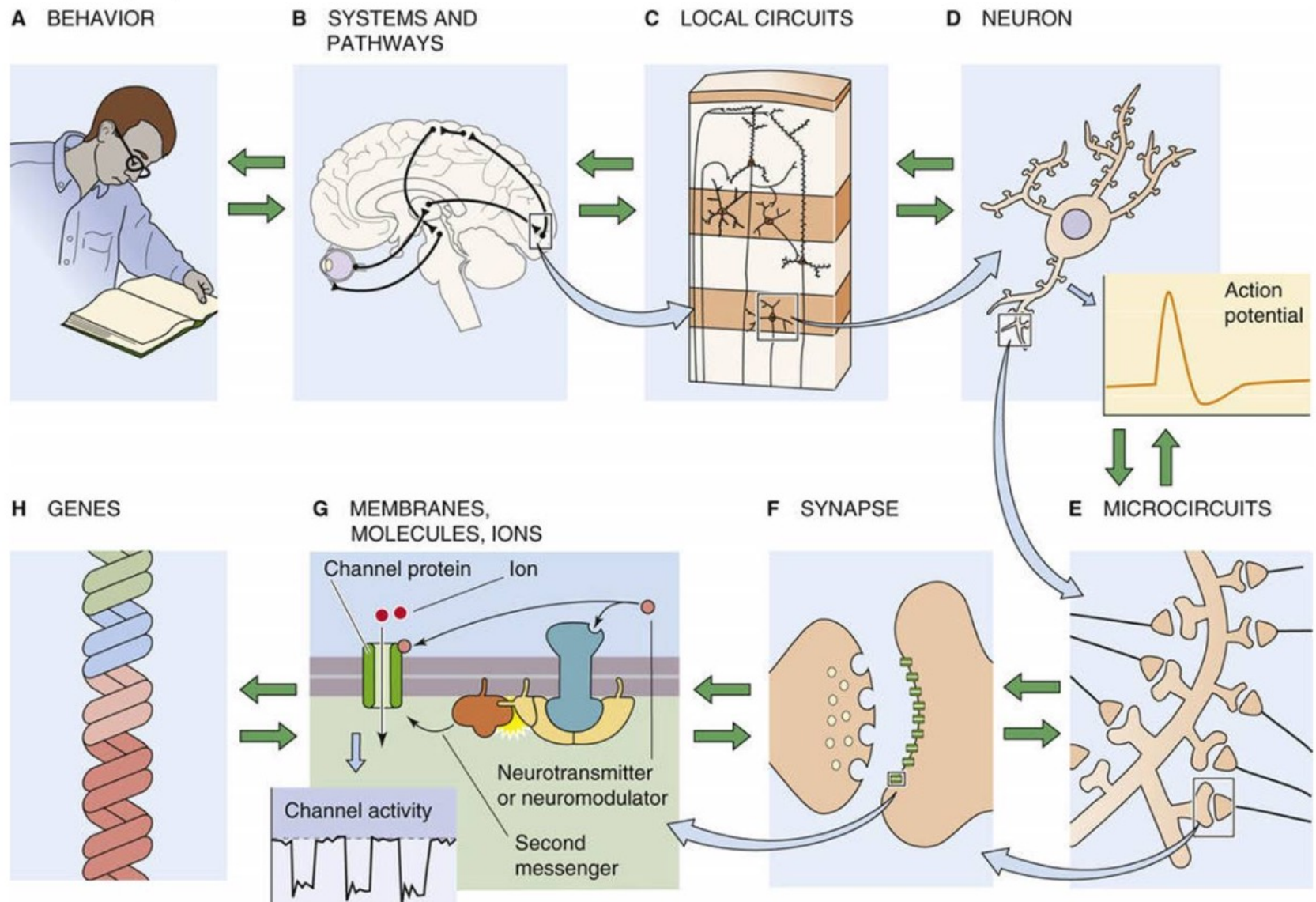
Micah Murray
Dept. of Radiology (RAD)



Bogdan Draganski,
Dept. of Clinical Neurosciences (DNC)

2nd semester of the Master in Medical Biology: *Neuroscience study path: 6 modules*





From genes to synapses to circuits in order to understand brain functions, behavior, diseases, mental disorders, and how to find new treatments

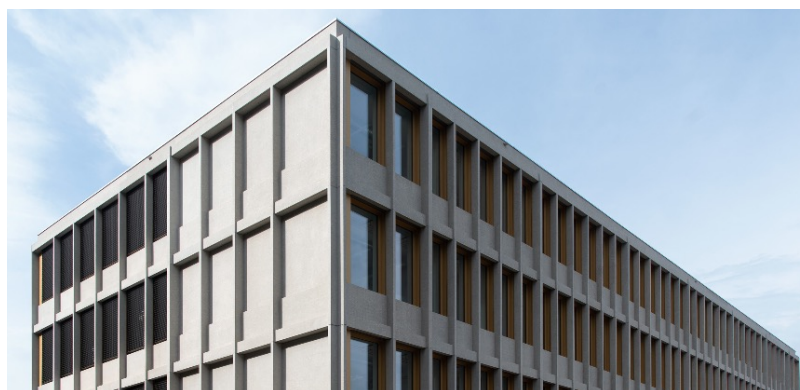
The Neuroscience network UNIL-CHUV

>30 Labs for First-step and Master Projects

**Department of Fundamental
Neurosciences (DNF)**



**Center for Psychiatric
Neuroscience (CNP)**



**Department of Clinical
Neurosciences (DNC)**



**...and many more
laboratories at UNIL/CHUV
with a neuroscience focus!**

Dept of Radiology

Dept of Biomedical Sciences

Service of Anesthesiology

HOJG

CIG

Dept. Computational Biology

UNISANTE

If you are fascinated by how the brain works and want to learn more about brain physiology and disorders...

Come and join us in the Neuroscience study track !

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