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1. Learning objectives

To know, understand and master the main principles of scientific research. Upon the completion of this set of courses, students will be able to conceive, write and communicate/defend a research project in Neuroscience.

2. Topics

1°-Epistemological approach of scientific research (fundamental principles, what is a scientific vs. non-scientific approach); **Translational approach**; **2°-Application of the principles: design of a mini-project from a scientific review** (anticipation of the ED's competition); **3°-Oral defence of a research project.**

3. Teaching

-In-class lectures associated with tutoring (expert guidance for the conception & writing of the Master project). **Special tutoring is provided for Neurasmus students. Expert guidance of oral defence** (communicating his/her own research project in Neuroscience in front of an audience). **Sub-group work to design a mini-project** based on a scientific review and oral defense scenario.

4. Examination

Final oral exam in December (coef 1: defense of his/her research project in front of a panel of various experts in neuroscience). The written project (10 pages), oral presentation (10 min) and answers to questions (10 min) are assessed. **The project must be sent one week before the exam.**

5. Speakers/topics

A Desmedt (Epistemology, conception of a research project & expert guidance for the conception & writing of the Master project); **ER Harrell** (Translational approach & expert guidance for the conception & writing of the Master project). **A Nadjar & P Fossat** (Scientific supervision of Neurasmus students), **P DeDeurwaerdère** (Oral defense of a project: principles & practice)