

UE 4.2. Research Internship

30 ECTS

“Parcours” Cellular, Integrative and Translational Neuroscience

The purpose of this teaching unit is to implement an experimental approach allowing the design and implementation of a project in the field of precision health. This period of professional experience will take place in one of the research units belonging to the University of Lille or to another institution in France or abroad. The internship will be supervised by a professional supervisor, affiliated with the host research unit.

Block of skills and knowledge - BCC 4: Conduct a research project in Biology and Health Science

Skills acquired (direct/indirect):

- Contribute to a research activity in the field of Biology and Health Sciences (SB1): by organizing a bibliographic monitoring of international scientific literature in a specific domain;
- Design an experiment in Biology and Health Sciences in a specific area by defining a problem and formulating objectives (SB2): by using the most appropriate methodologies to verify hypotheses while taking into account technological advances in research field;
- Implement an experimental approach in Biology and Health Sciences (SB3): by using basic techniques and relevant equipment essential to experimentation in the field; by selecting the relevant tools for collecting data; by knowing the limits of validity of a model and by identifying potential sources of error; by arguing choices in relation to the techniques used; by applying health and safety rules in the laboratory; by working independently within a team, by analyzing their own actions in a professional situation and by self-assessment to improve their practice.
- Analyze collected data in a basic, clinical or pharmacological research study (SB4): by exploiting, reviewing and contextualizing experimental data and by making a critical analysis according to the standards of the field, respecting the principles of scientific integrity; by validating a model by comparing assumptions with experimental results; by assessing the limits of validity of a model and identifying the sources of error.
- Communicate scientific data (SB5): by synthesizing data from both the scientific literature and experimentally self-acquired; by presenting and discussing concepts or results from various supports (oral presentation, poster, written report, etc.); by communicating in a clear and structured manner while adapting the level of expression and specialization to the target audience.

Tests: continuous assessment

Carrying out the research project leads to the writing of a research dissertation in the form of a scientific article. Students present the results of their project to a jury of professionals and answer scientific questions related to it.