UE 48 Radioactivity and pharmaceutical applications

6 ECTS

Content

Classes*
- General introduction and physical basics in radioactivity and its detection
- Interactions between radioactive radiations and living beings
- Radioactive sterilization
- Radiation protection and legislation
- Environmental exposures, radioactive waste, management of major crises
- Chemical synthesis of radiolabelled molecules and their use (including pharmaceutical formulation)
- Imaging and diagnosis
- Therapeutic applications
- Conference: professional experience

Tutorials*
- Physical basics of radioactivity and imaging from the point of view of physics
- Chemistry and use of radiolabelled molecules
- Presentation of clinical cases

Practical works*
- Radioactivity

* Classes (all students in amphitheater), Tutorials (small groups of students), Practical works (smaller groups of students in order to study in adapted practical rooms/laboratories).

Assessment

Final exam about classes and tutorials.
Continuous assessment for the practical works with report writings, oral presentations and/or lectures. Attendance to practical works needs to be approved.

Contact

Florence Agnely