

Bioimaging



En bref

- **Langue(s) d'enseignement:** English
- **Forme d'enseignement :** Cours magistral & Travaux pratiques
- **Ouvert aux étudiants en échange:** Non

Présentation

DESCRIPTION

Bioimaging is a fascinating interdisciplinary field at the interfaces of chemistry, physics, life science, and medicine, based on the development of imaging modalities to improve early diagnosis, therapy and management of human diseases. The UE Bioimaging: Advanced techniques and development of (nano-)tracers will bring the chemistry expertise to develop modern imaging probes and nanomedicine for medical imaging facilities, especially molecular and functional imaging. The course will focus on the characteristic features of chemical contrast agents (properties, interaction, smart probes...) to facilitate their preparation, formulation and administration in view of the acquisition of images in various modalities, such as magnetic resonance imaging (MRI), ultrasound and optics (photoacoustic imaging and bioluminescence), from preclinics to clinics. Illustrations of commercial and innovative contrast agents as well as recent applications in preclinical

research and clinical settings will be provided. In addition, students will have access to practical course demonstrations on selected *in vivo* imaging facilities of Université Paris Cité, to discover the newest technological developments of bioimaging probes for diagnosis and therapy.

HEURES D'ENSEIGNEMENT

Bioimaging	Cours Magistral	12h
Bioimaging	Travaux Pratiques	8h

PRÉ-REQUIS NÉCESSAIRES

Basis in molecular and material chemistry

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CONTACTS

Responsable pédagogique

Souad Ammar

✉ ammarmar@univ-paris-diderot.fr

LIEU(X)

- Campus Saint Germain des Prés

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