

# BioMedical Imaging - BIOMED

IMA and DIGIT master program

## Content and course material

Information and material:

<https://webia.lip6.fr/~bloch/BIOMED.html>

Calendar and rooms: <https://cal.ufr-info-p6.jussieu.fr/master/>

Moodle: <https://moodle-sciences-25.sorbonne-universite.fr/course/view.php?id=3231>

## 1 Medical imaging:

- Main acquisition techniques
- Tomographic reconstruction
- Registration
- Computer lab on segmentation
- Artificial Intelligence for medical imaging

## 2 Biological imaging:

- Microscopic techniques
- Detection and tracking
- Colocalization and segmentation
- Histology
- Computer lab
- Literature review (topics may include: details on a particular microscopic imaging technique, image/AI method integrating specificities of the images, etc.)

- Lectures, computer labs, literature review.
- Reports on computer labs to be delivered on the moodle (no later than one week after the lab).
- One written exam on medical imaging (no document, except one recto-verso sheet of notes authorized).
- Oral presentation on the literature review.