

## Faculty of Medicine



### SBIM9213 Training course in cell biology

[30h] 3 credits

**Teacher(s):** Pascal Kienlen-Campard (coord.), Jean-Christophe Renaud  
**Language:** French  
**Level:**

#### Aims

The aim is to learn the basic techniques of cell biology:

- cell culture and propagation ;
- morphological and microscopic examination of the cells ;
- analysis of cell proliferation and cell survival,
- introduction to the analysis of cell populations by FACS (Fluorescence-Associated Cell Sorter).

Our aim is also to train students to write a laboratory notebook and a training course report.

#### Main themes

- culture of cell lines in sterile conditions ;
- cell analysis by fluorescent microscopy ;
- biochemical assays (proteins, cell proliferation and cell survival assays) ;
- introduction to FACS analysis and study of the characteristic profile of selected cell populations.

#### Content and teaching methods

This training course takes place during 5 consecutive afternoons in two research laboratories of the Faculty. Students will work in small groups (usually 2 students) under the supervision of a research scientist.

#### Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prérequisites : those of Bac2.

Links : This training course requires knowledges from the practical courses of biology (Bac1, MD1107, General Biology) and prepares to the further laboratory training courses (SBIM9212, Stage de laboratoire)

Assessment : continuous and on the basis of the training course report.

Supervision : an assistant (with the help of other members of the research group).