

# Microbiologie médicale

## Lecturer

Véronique FONTAINE (Coordinator)

## Course mnemonic

BIOL-J302

## ECTS credits

5 credits

## Language(s) of instruction

French

## Course period

First term

## Course content

Sterility; bacterial growth; bacteria identification; microbial analyses of pharmaceutical ou cosmetic products; microbial water quality; antibiotics sensitivity assays and mechanisms of resistance; biocids efficacy assays; environmental microbial quality control; identification of microorganisms by PCR or reverse hybridization

## Objectives (and/or specific learning outcomes)

Experimental comprehension of asepsie, sterility, environnemental microbial contamination interfering in pharmaceutical products, bacterial growth; knowledge and use of microscopic, biochemical and genetic methods to identify bacteria, fungi and virus; performance in methods to enumerate microbial contamination in pharmaceutical products, microbial water analysis; biocids efficacy assessment; comprehension of bacterial antibiotics resistance and assessment methods

## Pre-requisits and co-requisits

### Pre-requisites courses

BMOL-J201 | Biologie moléculaire | 5 crédits

### Co-requisites courses

BIOL-J301 | Microbiologie générale, Hygiène, Immunologie | 5 crédits

## Course having this one as co-requisit

BIOL-J301 | Microbiologie générale, Hygiène, Immunologie | 5 crédits

## Teaching method and learning activities

Experimental exercises

## References, bibliography and recommended reading

- > Presentations power-point course Biol-J-301, on the virtual University website.
- > Book (syllabus) written by the teacher (V. Fontaine)

## Other information

### Contact(s)

Véronique Fontaine, Unité de Microbiologie et Hygiène, CP 205/2, Campus de la Plaine, room 1B7.111, email: vfontain@ulb.ac.be

## Evaluation method(s)

Other

### Evaluation method(s) (additional information)

Rapports after each experiment + one final assessment

### Determination of the mark (including the weighting of partial marks)

50% rapports - 50% final assessment

### Main language(s) of evaluation

French

## Programmes

### Programmes proposing this course at the faculty of Pharmacy

BA-PHAR | Bachelor in Pharmacy | unit 3