

- Faculté des sciences
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### Microbial ecology (3BL2238)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en biologie</b>	<b>Cours: 3 ph</b>	<b>controle continu: 1</b>	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

#### Période d'enseignement:

- Semestre Printemps

#### Equipe enseignante:

Pilar Junier

#### Objectifs:

The aim of this lecture is to obtain a thorough understanding of current topics in microbial ecology through the reading, presentation, discussion and analysis of scientific articles. In addition practical work and a field excursion are planned during the semester.

#### Contenu:

Microbial ecology is an extremely dynamic topic in which current knowledge is generated on daily basis. Because of this, students interested in the topic need to acquire the skills to identify and summarize relevant information in the topic. By focusing in a selection of current topics, the students are expected to acquire knowledge in recent topics related to microbial (both in terms of theoretical and methodological advances) and to be able to produce a synthetic summary of this knowledge.

#### Forme de l'évaluation:

For the overall evaluation the work conducted during the semester will be evaluated in the following way:

1. Presence to the lectures: 10%
2. Contribution to the production of summary: 20%
3. Active contribution to literature research: 20%
4. Presentations during lectures: 20%
5. Final report: 30%

If a student fails to obtain a "pass" grade, a comprehensive review in one of the topics will have to be handled in the prior to the end of the following semester.

#### Documentation:

A series of topics will be defined together with the participants. Examples of those topics are:

1. Human microbiota
2. Microbial ecology of the cryosphere and permafrost
3. Bioremediation
4. Biocontrol

Specific scientific articles for each topic will be presented during the lectures.

#### Pré-requis:

Basic concepts in microbiology of a Bachelor level

#### Forme de l'enseignement:

Lectures, seminars and discussion of scientific articles