

- Faculté des sciences
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Environmental mycology (3BL2296)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en biologie	Cours: 28 pg	Voir ci-dessous	3

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

Période d'enseignement:

- Semestre Printemps

Equipe enseignante

Saskia Bindschedler

Contenu

The aim of this course is to present, discuss, and experiment the role of fungi in the environment. Three specific chapters will be developed throughout the semester:

1. Methods and approaches to study fungi in the environment
2. Fungi in the agricultural environment, with a focus on soil fungi, plant nutrition and biocontrol
3. Mycoremediation

Forme de l'évaluation

1. Three miniquiz in moodle recapitulating elements (lectures and critical reading of research articles) of each of the three chapters (30% of the final grade).
2. Presentation, in group, of selected topics linking theoretical content seen in class to the experimental work. The topics will be defined in class via a group discussion (30% of the final grade).
3. Report (1500 words excluding references, individual work) on the experimental work carried out in the lab (40% of the final grade). To be handed-out via moodle latest on June 8th 2026.

NB: The use of chatGPT (or any other conversational AI-based tool) is allowed, in that case its use has to be disclosed and the prompt has to be provided as an appendix to the work item for which it has been used.

Modalités de rattrapage

In case of a grade below the pass grade (4), the student should contact the teachers to fix the topic of a 3000-words essay to be handed two weeks before the end of the exam session to which the student is inscribed.

Documentation

Scientific references will be indicated when relevant. For the critical reading of research articles and for the experimental part, research articles will be provided to the students. Finally, students will be encouraged to look for further scientific literature by themselves.

Pré-requis

Basic concepts in mycology/microbiology of a Bachelor level.

Forme de l'enseignement

Theoretical lectures, critical reading of research articles, lab work, and active student participation via group discussions and presentations.

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Summarize knowledge in a specific topic in environmental mycology
- Illustrate the role of fungi in the environment
- Analyse the content of research articles
- Present applied mycological concepts to peers

Compétences transférables

- Practice scientific literature search
- Question the usefulness of generative AI-based tools
- Synthesise knowledge presented by peers

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