SCIENCES, TECHNOLOGIES, SANTÉ

PostGram | Plant Biology

- Composante : Faculté des sciences
- Niveau d'étude : BAC +5 / master
- Durée : 5 mois
- Ouvert en alternance : Non
- Formation à distance : Obligatoire

Présentation

With PostGram, we offer the opportunity to try out a new teaching method to ensure effective guidance and improved progression from bachelor's to master's to doctoral level.

This distance learning course in English allows students to “test” the courses offered in the master's in Plant biology (25%, 15 ECTS) in order to confirm their interest in this degree and/or get a head start on the first year of the master's. It thus enables students to discover the major fields of knowledge and research in plant biology and to begin developing a future career plan in plant biology.

The ambition of PostGram and the master's in Plant biology is to train high-level scientists to meet the challenges of the current context of plant production. With its Plant Campus, Angers is France's leading center for higher education in plant sciences and attracts students trained to address the challenges of an increasingly complex and restrictive environment (climate change, low-input farming systems, and emerging pathogens).

This PostGram offers a unique opportunity to deepen your knowledge in a demanding academic setting, using teaching materials provided by local plant research stakeholders.

Each of these four modules includes comprehension questions to help you assess your knowledge and identify areas for review before the assessment.

Les + de la formation

The PostGram in Plant biology does not simply duplicate the content of the master's degree. It is specifically designed for distance learning, with an adapted teaching approach.

The programme is organised into five thematic modules:
-Diversity and knowledge of plant pathogens
-Plant genomics

-Parasitic and mutualistic strategies
-Ecology of plant-associated microbial communities
-R programming and modelling

All content in English is accessible asynchronously, with the possibility of interacting with reference teacher-researchers in case of questions or difficulties.

The training programme draws on the expertise of teaching and research staff in plant biology and on research conducted within the İRHS (Horticulture and Seed Research İnstitute) and US2B (Biological Sciences and Biotechnology Unit).

Admission

Conditions d'admission

Completed second year of undergraduate studies (or equivalent).

Modalités d'inscription

Apply online e-candidature between October 15 and November 30.

Documents to be submitted: proof of identity, most recent diploma, transcripts from bachelor's degree or equivalent diploma, cover letter.

The validation committee will meet between November 15 and December 1. İt will review the validation of diplomas and supporting documents in the order in which they are received.

The registration phase will take place between December 1, 2025, and January 15, 2026.

The programme will begin on January 15, 2026.

Droits de scolarité

- for 5 UA students upon presentation of proof of enrollment (free)
- for other UA and non-UA students (€254)

Capacité d'accueil

Capacity is limited to 20 students.

Et après

Poursuite d'études

Upon completion of the PostGram in Plant biology, you can earn up to 15 ECTS credits (out of the 60 ECTS credits required to obtain a Master's degree). This will allow you to approach the first year of your master's degree with greater peace of mind by significantly lightening your workload and possibly completing an internship in a research laboratory instead.
İf you then wish to enrol in the master's in Plant biology at the University of Angers, please visit MonMaster and apply within the deadlines indicated on this platform.

İf you are an international student, the application procedure depends on your nationality, the country where you obtained your baccalaureate (or secondary school diploma) and your country of residence.
Visit the University of Angers website for more information. Learn more

Enrolment in the PostGram Plant biology programme does not exempt you from the regulatory procedures for admission to master's 1. However, this programme is an asset for admission to the master's in Plant biology at the University of Angers or for preparing a PhD in the field of plant sciences.

İnfos pratiques

Contacts

Contact administratif

Sandrine Herguais
0241735485
sandrine.herguais@univ-angers.fr

Responsable formation

Thomas Guillemette
thomas.guillemette@univ-angers.fr

Programme

Organisation

Upon completion of the Plant biology PostGram, you will have acquired the scientific and methodological foundations necessary to understand the interactions between plants and microorganisms, whether beneficial or pathogenic. You will be able to analyse the molecular mechanisms of gene expression in plants, describe the major classes of symbiosis (mycorrhizal and nitrogen-fixing), and understand the evolution of varietal resistance and the infectious strategies of pathogens (fungi, bacteria, parasitic plants). You will also discover recent approaches in microbial ecology, such as the characterisation of microbiota (root, leaf, seed) using culture-free methods. Finally, you will acquire basic skills in R programming to organise, manipulate, and visualise biological datasets.

All modules will be taught in English.

COURSE ORGANİSATİON

The PostGram Plant biology programme offers five modules:
R programming and modelling
Diversity and knowledge of plant pathogens
Parasitic and mutualistic strategies
Ecology of plant-associated microbial communities
Plant genomics
Each module requires several hours to learn the concepts presented and complete the multiple-choice questions provided for practice.

The PostGram runs from January to June, so you can organise your time as you wish, at your own pace. The workload varies from one module to another, but everything is clearly indicated in the courses.

The courses are not organised in chronological order on the University of Angers' online learning platform. You can complete the modules in any order you wish.

All modules are accessible asynchronously, but a teacher-researcher is available on the forum if you have any questions.

This Fun Mooc module gives you access to a summary of what will be covered in each module.

Année

	Nature	CM	TD	TP	Crédits
R programming and modelling	Matière	21h			
Diversity and knowledge of plant pathogens	Matière	17h			
Parasitic and mutualist strategies	Matière	17h			
Ecology of plant-associated microbial communities	Matière	10,25h			
Plant genomics	Matière	8h			