

Production and Technology of Conventional and Organic Seeds and Clonal Materials (M2 SEPPRO)

Formation continue - Module de master



Seeds and propagating material are at the basis of agriculture and horticulture performance. By producing high quality and innovative material, the sector addresses global issues related to food security, climate change, agroecology and sustainable agriculture. The seed sector is driven by innovation, science and research, and intellectual property issues representing a market of nearly 12 billion US \$ worldwide. It encompasses a wide diversity of companies, from small, specialized companies to multinationals. The curriculum is dedicated to the diverse range of seeds and clonal material to ensure successful crop establishment. It is based on interdisciplinary courses that integrate biology, production, technology, conservation strategies, data management and experimental design along with business management, intellectual properties and regulations. Inserted in the M2 curriculum "Seed and Plant Propagation (SEPPRO), the objective of this 4 week course is to present the different strategies to multiply seeds of vegetables/field crops and clonal material and how to improve their quality to meet new challenges through experimentation & research.

Durée

30 jour(s) - 66h

Session(s)

- 06 janvier 2025 au 31 janvier 2025
Lieu : Angers
Tarif : 2640 euros

Responsables(s)

Béatrice Teulat et Agnès Grapin

Pré-requis

Connaissance en génétique et biologie de la reproduction
Connaissances de base en agronomie et méthodes de breeding
Connaissances de la filière semences
Capacité à lire, écrire et parler l'anglais à un niveau B2

Informations particulières

Formation dispensée en anglais

Nombre de participants

1 minimum - 20 maximum

Objectifs

- To have an integrative vision of seed and plant production
- To be able to formulate a diagnosis and propose innovative propagation strategies to meet the new challenges of the sector, and implement a quality approach in accordance with the regulatory framework
- To be able to understand and optimize post-harvest operations, estimate post-harvest quality and to propose innovations in seed and plant treatments.

Publics concernés

Etudiants de niveau M1 minimum en agronomie, horticulture, sciences du végétal
Professionnels du secteur semences
Cadres en reconversion professionnelle

Programme

Reasoning for the production of seeds and clonal plants:

- Overview on conservative selection
- Regulations and quality approach: regulatory framework for the production, testing and distribution of seeds, transplants and clonal material, quality approach and certification of propagation material for organic farming
- Management of plant propagation modes/ways: influence of modes and barriers of reproduction, influence of varietal types and modes of propagation.

Optimization of seeds and clonal material quality:

- Dry seed production: current issues in production, visits to seed producers, weed management and low-input crops (seed banks in the soil, use of agro-ecological approaches in seed-bearing plant cultivation, multiplication contracts),
- Production of propagation material: transplants from seeds, ornamental and fruit nurseries, micro mother plants, bulbs and tubers, in vitro plants,
- Post-harvest seed operations and technologies (seed sorting, seed treatments, biology of priming biology...).

**NOUVEAU
MODULE**

LES +

DE LA FORMATION

Le programme concerne une diversité de mode de propagation (différentes espèces de semences et du matériel cloné) garantissant une implantation réussie des cultures. Il s'appuie sur des cours interdisciplinaires qui intègrent la biologie, la production, la technologie et la conception expérimentale, ainsi que les réglementations

Contacts

Service Alternance et Formation Continue

tél : +33 (0)2 23 48 55 26

fc.rennes-angers@institut-agro.fr

Informations et inscription

<https://formationcontinue.institut-agro-rennes-angers.fr>

Formation ouverte sous réserve d'un nombre minimum d'inscrits