



**WAGENINGEN**  
UNIVERSITY & RESEARCH

**Plant**

Online course

# Plant Breeding, tailor-made learning for professionals

## Learn anywhere at anytime

**Are you looking for more theoretical background on plant breeding? This online course includes five modules, both basic, more complex breeding and selection methods, new technological developments, and underlying biological concepts. Online learning offers you a flexible learning process and the possibility to compose your own course. It is ideal for professionals and enables them to study the lecture material at their own pace and place.**

**This online course has been developed by experts from Wageningen University & Research. The modules have been successfully followed by a broad audience from more than twenty different countries and are well-rated.**

## Target group

Professionals in plant breeding and related companies and research institutes.

## Results for you

The complete online learning course Plant breeding provides you with a concise overview of basic principles of plant selection and principles associated with genetic markers, linkage mapping, QTL-analysis, resistance against pathogens, F1 hybrids and mutation breeding.

**Supervisory lecturer: Dr Jan-Kees Goud, Wageningen University & Research, Plant Breeding**

## Our approach

The study material is available on the online learning platform *Blackboard Learn*. The study material consists of built-in text and figures, supported by interactive self-tests to check the acquired knowledge.

## Advantages of online learning

- The possibility to compose any combination of modules (all or a selection of single modules) enables you to repair specific knowledge deficits
- Self-study: the materials are available 24/7
- Study at your own speed
- Avoid travelling time

## Optional: exam and certificate with study credits

Each module can be completed by doing a written exam at Wageningen University & Research in The Netherlands. This is optional. After completing the exam successfully, a certificate with the relevant study credits (ECTS) is issued. You can do exam per module or for more modules at the same date.



## Practical information

### Course details

The course fee is € 495,- for M1, € 695,- for M2, € 95,- for M3, € 495,- for M4 and € 495,- for M5.

Price exam (optional): € 195,- per examination date (travel and accommodation costs not included)

Participation: we provide you with your personal log-in details after registration and payment. After registration participants will be granted access to the course for one year.

### Participant requirements

To follow this online course participants are assumed to have:

- Knowledge at BSc level of plant sciences, genetics or biology by education or work
- Good understanding of English
- Access to internet

### Registration

Registration is possible via [www.wur.eu/academy](http://www.wur.eu/academy)

## Programme

Plant Breeding plays an important role in the development of plant varieties for food, feed and industrial uses. New varieties have to meet current demands regarding yield, disease resistance, quality characteristics, salt or drought tolerance and suitability for sustainable plant production systems. Plant Breeding involves a variety of aspects, ranging from the molecular level to the population level and requires knowledge on the physiology, ecology and genetics of cultivated plants. The use of various molecular techniques contributes enormously to the rapid identification of genes for natural resistance and is essential for accelerating the selection process by marker-assisted breeding.

### 5 modules

We offer an online course Plant breeding consisting of 5 modules. You can register for any combination of modules.

- Principles of plant breeding (M1) = 1.0 ECTS
- Marker-assisted selection (M2) = 2.0 ECTS
- Resistance to biotic factors (M3) = 0.2 ECTS
- F1 hybrids (M4) = 1.0 ECTS
- Mutation breeding (M5) = 1.0 ECTS

The ECTS for the individual modules differ.  
1.0 ECTS equals ca. 28 study hours.

More information on the covered topics can be downloaded from our website.



## General terms and conditions

The General Terms and Conditions of Wageningen Academy apply to all activities of Wageningen Academy: [www.wur.eu/academy](http://www.wur.eu/academy)

## Contact

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tomorrow's business