

Advanced Plant Biotic Interactions (C003618)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size *(nominal values; actual values may depend on programme)*

Credits 3.0 **Study time** 80 h **Contact hrs** 25.0 h

Course offerings and teaching methods in academic year 2020-2021

| | | | | |
|----------------|---------|------|----------------|--------|
| A (semester 1) | English | Gent | microteaching | 20.0 h |
| | | | lecture | 5.0 h |
| | | | online lecture | 0.0 h |

Lecturers in academic year 2020-2021

| | | |
|--------------------|------|--------------------|
| Goormachtig, Sofie | WE09 | lecturer-in-charge |
| Vanholme, Bartel | WE09 | co-lecturer |

Offered in the following programmes in 2020-2021

| | crdts | offering |
|---|-------|----------|
| Master of Science in Biochemistry and Biotechnology | 3 | A |
| Exchange programme in Biochemistry and Biotechnology (master's level) | 3 | A |

Teaching languages

English

Keywords

Molecular basis of plant-pathogen interactions

Position of the course

This course contributes to the following program competencies: MaWEBB 1.1; 1.3; 1.4; 1.5; 2.2; 2.5; 2.6; 3.2; 3.4; 4.1; 5.1; 5.4; 6.5; 7.RES.1; 7.RES.2

Contents

plant immune system
 pathogenic strategies: fungi, bacteria, virus,...
 plant-insect interactions, nematode infections
 development versus defense
 resistance in breeding and engineering

Initial competences

Good knowledge of plant and microbial biology, biotic interactions of plants, and a sound basis of molecular biology

Final competences

- 1 The student learned about the present insights in the molecular mechanisms of pathogenesis and immunity.
- 2 The student can summarize a subject within the plant biotic field in a oral presentation.
- 3 The student can make a written summary about a topic within the plant/biotic interaction field and about a discussion of this subject.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, microteaching, online lecture

Extra information on the teaching methods

Students discuss about several case-studies. Students who did not follow Biotic Interactions of Plant, will also follow some lectures about the basic knowledge of this topic.

Learning materials and price

recent articles (powerpoint and pdf.)
Cost: 0 Euro

References

recent reviews and recent research papers

Course content-related study coaching

Evaluation methods

continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Participation, assignment, report

Examination methods in case of periodic evaluation during the second examination period

Participation, assignment, report

Examination methods in case of permanent evaluation

Oral examination

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Extra information on the examination methods

students will make a summary about the different theme's and will be evaluated on the quality of the summary, presentations and knowledge obtained from the lectures.

Calculation of the examination mark

Marks based on total activity of the student (actions in discussions (3/20), presentations (10/20), summaries (7/20))