

Plant responses to environmental stress

Lecturer

Nathalie VERBRUGGEN (Coordinator)

Course mnemonic

BIOL-F443

ECTS credits

5 credits

Language(s) of instruction

English

Course period

First term

Course content

The course will be a review of plant responses to different types of environmental stress, in particular physiological and molecular analysis. Molecular biology tools have allowed tremendous progress in our understanding of plant responses. Responses of plants to drought salt stress, temperature stress, toxic concentrations of trace metals, biotic stress, ... will be presented. The course will also include advances in the improvement of plant resistance to stress by genetic engineering. General research strategies will be discussed through analysis of case studies.

Objectives (and/or specific learning outcomes)

The aim of the course is to give students the necessary tools to understand mechanisms of plant responses to different environmental stresses.

Teaching method and learning activities

Case studies

References, bibliography and recommended reading

Research and review articles (on U.V.)

Other information

Contact(s)

VERBRUGGEN Nathalie Laboratoire de Physiologie et de Génétique Moléculaire des Plantes - ULB-Campus Plaine - CP 242 - Bd. du Triomphe - 1050 Bruxelles. Tél. : 02/6502128 - Fax : 02/6505421 - email : nverbru@ulb.ac.be - http://www.ulb.ac.be/sciences/lpgmp

Evaluation method(s)

Other

Evaluation method(s) (additional information)

Written examination+ oral presentation of a personal work

Determination of the mark (including the weighting of partial marks)

1/2 written examination + 1/2 oral presentation

Main language(s) of evaluation

English

Programmes

Programmes proposing this course at the faculty of Sciences

MA-BIOR | **Master in Biology of Organisms and Ecology** | finalité Research/unit 2 and finalité Erasmus Mundus Joint Master Degree in Tropical Biodiversity and Ecosystems - TROPIMUNDO/unit 1, MA-ENVI | **Master in Environmental Science and Management** | finalité Environmental Science/unit 2 and MA-IRBA | **Master in Agricultural Bioengineering** | finalité Professional/unit 2

Programmes proposing this course at the Brussels School of Engineering

MA-IRBA | **Master in Agricultural Bioengineering** | finalité Professional/unit 2