COURSE DETAIL

PLANT CELL BIOLOGY
Country Ireland
Host Institution University College Dublin
Program(s) University College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 162
UCEAP Course Suffix
UCEAP Official Title PLANT CELL BIOLOGY
UCEAP Transcript Title PLANT CELL BIOLOGY
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

The cell is the basic building block of eukaryotic organisms, and understanding how cells develop and their physiological responses to the environment are key to our understanding of plant growth and development. This course expands on basic cell biology by using the stomatal guard cell as the system to understand plant cell biology. Lectures explore the genetic and molecular regulation of stomatal development and how stomatal guard cells respond to internal and external signals through changes in ion transport to effect changes in stomatal guard cell turgor. Practical components of this course include demonstrations of (i) advanced microscopy techniques (including laser scanning confocal microscopy), (ii) biolistic transformation, and (iii) techniques to assay for stomatal function and stomatal development.

Language(s) of Instruction
English

Host Institution Course Number
CELB30110

Host Institution Course Title
PLANT CELL BIOLOGY

Host Institution Course Details
https://hub.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=CELB30110

Host Institution Campus
University College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biology & Environment Science

Course Last Reviewed
2024-2025

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