COURSE DETAIL

DEVELOPMENTAL BIOLOGY
Country Ireland
Host Institution Trinity College Dublin
Program(s) Trinity College Dublin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 138
UCEAP Course Suffix
UCEAP Official Title DEVELOPMENTAL BIOLOGY
UCEAP Transcript Title DEVELOPMENTAL BIO
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

This course consists of a series of lectures, tutorials, and laboratory sessions that deals with a range of developmental topics emphasizing a molecular approach to understanding the principles of animal development. A number of animal model systems is dealt with and the contribution of each to our overall understanding of development discussed. Specific topics include: developmental genetics: the identification of genes that regulate development in Drosophila and vertebrates; positional determination: how the body plan of the embryo is laid down including the role of homeo-box genes; induction: the role of cell and tissue interactions and signaling cascades; developmental neurobiology: positional determination within the vertebrate central nervous system, neuronal diversity and axonal guidance, and neural crest cells and development of the peripheral nervous system. Other topics include limb development, organogenesis, and evolutionary developmental biology.

Language(s) of Instruction
English

Host Institution Course Number
ZOU33050

Host Institution Course Title
DEVELOPMENTAL BIOLOGY

Host Institution Campus
Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Zoology

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