COURSE DETAIL

BIOMEDICINE: DEVELOPMENTAL AND STEM CELL BIOLOGY
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 132
UCEAP Course Suffix
UCEAP Official Title BIOMEDICINE: DEVELOPMENTAL AND STEM CELL BIOLOGY
UCEAP Transcript Title BIOMED: STEM CELL
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course covers basic principles in developmental biology and molecular genetics with a special emphasis on developmental biology model systems in vertebrates and invertebrates. The most important processes in early embryo development, such as fertilization, cell division, the establishment of position information, polarity and asymmetries, and formation of body axes and gastrulation as preconditions for extremity development, regeneration and formation of the body's most important organs are included. Finally, there is a discussion about the mechanisms behind the self-renewal and differentiation of stem cells and the role of stem cells in the renewal of the body's tissues. The course also includes how developmental biology knowledge can be utilized in the establishment of animal models for studies of human disease mechanisms.

Language(s) of Instruction
English

Host Institution Course Number
BIMB30

Host Institution Course Title
BIOMEDICINE: DEVELOPMENTAL AND STEM CELL BIOLOGY

Host Institution Campus
Lund

Host Institution Faculty
Medicine

Host Institution Degree

Host Institution Department
Biomedicine

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