

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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