

COURSE DETAIL

STEM CELL BIOLOGY

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

147

UCEAP Course Suffix**UCEAP Official Title**

STEM CELL BIOLOGY

UCEAP Transcript Title

STEM CELL BIOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides a detailed and critical introduction in the biology of stem cells and regenerative medicine. The course investigates the origin of embryonic and adult stem cells and covers biological concepts relating to pluripotency, self-renewal, transdifferentiation, reprogramming and regeneration. The cell-fate determination and differentiation of selected types of cells, with a focus on their potential biological and medical applications, are presented. Specialized topics on cancer stem cells, wound healing and tissue regeneration provide a glimpse of how mankind's future could be further shaped.

Language(s) of Instruction

English

Host Institution Course Number

LSM4227

Host Institution Course Title

STEM CELL BIOLOGY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biological Sciences

[Print](#)