COURSE DETAIL

REPRODUCTION AND IN VITRO FERTILIZATION
Country Netherlands
Host Institution Utrecht University
Program(s) Utrecht University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 160
UCEAP Course Suffix
UCEAP Official Title REPRODUCTION AND IN VITRO FERTILIZATION
UCEAP Transcript Title REPRODUCTION & IVF
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course offers a study of reproduction. The course discusses topics including regulation of oogenesis and follicogenesis and processes involved in follicle development; the female hormonal cycle, regulation of ovulation, pathologies in the female cycle, and intervention possibilities for the human species; the process of spermatogenesis, the functional concept of sperm cell, the importance of sperm maturation, transport, and activation for the fertilization; recognition and mating behavior at estrus of animals; the physiology of copulation; Artificial Reproductive Techniques (ART); the development of zygote to blastocyst; maternal recognition of the conception; regulation of birth; embryo and primary stem cells; cloning and preparation of embryonal stem cells and the application of these techniques for production of organs and organisms; reproductive ageing and degeneration of gonocytes; ethical considerations in ART; FISH and prenatal diagnosis of chromosomal aberrations; and principles of advanced detection techniques for detection of processes in living gametes and embryo's. The course consists of lectures, discussions, and practicums. The course requires the completion of the biomedical sciences curriculum or the equivalent as a prerequisite.

Language(s) of Instruction
English

Host Institution Course Number
BMW30805

Host Institution Course Title
REPRODUCTION / IVF

Host Institution Course Details
https://osiris-student.uu.nl/onderwijscatalogus/extern/cursus

Host Institution Campus
Utrecht University

Host Institution Faculty
Medicine

Host Institution Degree
Host Institution Department
Course Last Reviewed 2023-2024

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