COURSE DETAIL

EARLY LIFE EVENTS: DIAGNOSTICS AND TREATMENT
Country Netherlands
Host Institution Utrecht University
Program(s) Utrecht University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 112
UCEAP Course Suffix
UCEAP Official Title EARLY LIFE EVENTS: DIAGNOSTICS AND TREATMENT
UCEAP Transcript Title EARLY LIFE EVENTS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course provides a broad overview of the options that bio-medically trained experts have to work in multidisciplinary research teams. The lecturers have a diverse background (medicine, biomedical sciences, psychology, pathology, biology, and bioelectronics) to ensure students gain insights from all relevant points of view. The main topics of this course are the causes, consequences, and (experimental) treatment options for children born pre-term or for children born with pathology, which are known as “early life events.” This course particularly emphasizes the multidisciplinary character of diagnostics and pre-clinical research. Through lectures, active seminars, and practicals, students gain insights in the biomedical and clinical topics relevant to improve fertility, intra-uterine growth, and neonatal care. Students tour the neonatal intensive care unit of the Wilhelmina Children's Hospital and the rehabilitation center ‘De Hoogstraat'. Students work in small groups as a research team and jointly gain knowledge on how translational experiments work. A substantial part of this course is the practical, for which the students operate in teams to set up a neuronal cell culture, induce the differentiation of these cells, and evaluate the viability and specificity of the cells using immunofluorescent stainings and microscopy. Students generate a novel research protocol, a lab journal, a written report (journal paper style), and a presentation of their findings.

Language(s) of Instruction
English

Host Institution Course Number
BMW33517

Host Institution Course Title
EARLY LIFE EVENTS: DIAGNOSTICS AND TREATMENT

Host Institution Course Details
https://osiris.uu.nl/osiris_student_uuprd/OnderwijsCatalogusSelect.do?selectie=...

Host Institution Campus

Medicine

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biomedical Sciences

Course Last Reviewed
2020-2021

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