

COURSE DETAIL

FUTURE MEDICINES

Country

Netherlands

Host Institution

Utrecht University

Program(s)

Utrecht University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

148

UCEAP Course Suffix**UCEAP Official Title**

FUTURE MEDICINES

UCEAP Transcript Title

FUTURE MEDICINES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

Medicine is trending towards advanced therapy medicinal products (ATMP), which include biomolecules and cells, focusing on disease modification and on personal differences: personalized medicine. But a better understanding of a person's characteristics or disease characteristics can also be exploited by repurposing of old medicines. This course studies personalized medicine at several levels: Molecular, cellular, organ, organism, and population. The course starts with an individual assignment of a recent first in class medicine and ends with group assignments on future medicines. Course topics include the latest medicines and how they were developed; Drug repurposing; Cell and gene therapy and regenerative medicine; the self; our compatibility gene; and Glycomics and related diseases. Class attendance is monitored during the six weeks of teamwork. Students who do not participate in the presentation and Q&A of their team (which is essentially an exam) or do not meet the attendance requirement do not get a grade. Previous knowledge in (bio)chemistry, cell biology, pharmacology, and immunology are required.

Language(s) of Instruction

English

Host Institution Course Number

FA-BA314

Host Institution Course Title

FUTURE MEDICINES

Host Institution Course Details

<https://osiris-student.uu.nl/onderwijscatalogus/extern/cursussen>

Host Institution Campus

Utrecht University

Host Institution Faculty

Science

Host Institution Degree
Host Institution Department Pharmaceutical Sciences
Course Last Reviewed 2024-2025

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