

## 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 Campus

Utrecht University

### Host Institution Faculty

Science

### Host Institution Degree

### Host Institution Department

