

How to Choose a Scientific Problem, 2 credits (P000104)

Preliminary program

*Day1 - intro (half day), **Monday 4 November 2024, 14:00-17:00***

- Course participants introduction, discuss the program, discuss some of our own (teacher) work, explain the homeworks, what is a GOHREP, deadlines, ILOs (what is needed to succeed in this course)

*Day 2 - talks from invited speakers (full day) **Monday 18 November 2024***

- Sophien Kamoun (in person) - GOHREP and overall science philosophy.

Monday 18 November 14:00-16:00

- Michael A. Fischbach (via Zoom) - Author of the article *Problem choice and decision trees in science and engineering*, will deliver course material upon request. Talk scheduled for **Monday 18 November at 17:00 CET (08:00 am in California) - 19:00 CET**

- After each lecture: Q&A, recap of the lectures, questions about the homework (GOHREP and Nature/Cell/Science paper discussion)

*Day 3 - Discussion (full day), **Monday 2nd December***

Morning 10:30 - 12:00

- GOHREPs (in sub teams) - overall design principles, peer-assessment, feedback from teachers on request

Afternoon 14:00-17:00

- Dissect NCS paper discussion

Room A402 (BioCentrum) is booked for the three days

Requirements to finish the course:

Final deadline - 6 December 2024

- Submit a written GOHREP
- Submit in writing at least three suggestions or criteria to your future self what to look for in a scientific problem and the motivation for them

- Attendance of three days

Exercise:

- Choose a scientific problem from own experience/project and discuss at the last day - GOHREP
- Discuss Nature/Cell/Science papers and what makes it an NCS... Not necessarily an NCS paper, but 'what makes a good paper'