RNA World Course – 2020/21 Syllabus

Teacher sessions

- Overview
- Origin and fate of the RNA World
- RNA structure A
- RNA structure B - Catalytic RNA
- RNA protein interactions
- Genome-wide RNA technologies

Student sessions

- RNA world hypotheses
- RNA roles underlying ribosome functions
- A self-splicing intron figures in the ascent of the eukaryotic lineage
- Regulatory roles of tRNA fragments and other small RNAs
- Long noncoding RNA reprograms the chromatin
- Genome wide RNA protein interactions

Student lecture preparation

- Pick a paper from the lists in the overview presentation.
- Contact the teacher to help choose/confirm your choice.
- Prepare a 15 min ZOOM presentation plus a short summary to be distributed among the group ahead of your talk.
- Earns at best 51% of the final grade.

Written exam

Will be sent to your email – return answers within the allotted time. The exam is open, i.e., you may use any source of relevant information, but do the search on your own

10 questions, 4 of which about 2 research papers provided 2-3 weeks ahead of the exam.

- Answer 2 of the 4 research questions and 5 of the remaining.
- Each correct answer earns 7 points, totaling at best the remaining 49.
- Type your answers, send as Word or Pdf file