



Uppsala University

International Summer School in Synthetic Biology, July 25 – 9 August, 2022

Place

Biomedical Center, Uppsala University, Sweden

Responsible departments

Biology Education Center (www.ibg.uu.se) and Department of Cell- and Molecular Biology (www.icm.uu.se)

Aim

In an international setting, the students will be trained in basic techniques of synthetic biology as well as in generic skills such as research methodology, problem solving and communication. The students will meet researchers performing current relevant biology research at Uppsala University.

Course description

In this course, the students work in small lab groups in safe and well-equipped laboratories. The lectures will include an introduction to tools in molecular biology (RNA and DNA-based technology), Biosafety and Bioethics, Bioinformatics of Molecular Sciences, Synthetic Biology and other top-notch research topics presented by Uppsala University researchers. Lectures and seminars will be combined with experimental work, both in pre-designed experiments and smaller projects. All students will be individually coached and will be trained in group work and communication skills. At the end of the course, a student symposium will let the students practice presenting science. All students will submit a short individually prepared written report, to which feedback will be given.

Practical information

The students will arrive during the weekend July 23-24 to the airport of Arlanda, which is a close distance to the safe, old and beautiful city of Uppsala. Students are offered comfortable housing in the city where it is easy to move around by bicycle, by bus or by walking. The climate is comfortable and the environment, including air and water, is clean. The students will be introduced to the course and the laboratories at Uppsala Biomedical Center. Before returning home, the students will have the possibility to visit the capital of Sweden, Stockholm and also enjoy the nature outside of the city of Uppsala.

Prerequisites

30 credits (equivalent to half a year of full-time studies) from a Bachelor's programme in biotechnology, biological science or chemistry, including at least one course in chemistry, molecular biology or microbiology.

Price

The course fee is divided in three parts and include travels within Uppsala, accommodation and food during the duration of the course. Application fee: 900 SEK, tuition fee 10833 SEK, and a fee for in town accommodation food and social activities 15000 SEK. The application will not be processed until the application fee is paid.

Application

Apply between February 20–March 15th, 2022. March 15 is an absolute deadline for application and documentation. Please see the attached checklist for all details.

More information

info@ibg.uu.se or Margareta Krabbe, margareta.krabbe@ibg.uu.se; +46704250949 or Yin Zheng-Yuan; yin.zheng_yuan@uadm.uu.se (information in Chinese). Upon request: meeting on Zoom for more information.

www.ibg.uu.se