



New Courses in Biomedicine at Örebro University, Sweden

Increase your expertise in **Molecular Signaling, Systems Biology, Exposome and Health**, and **Vaccinology**. These cutting-edge courses provide the knowledge and skills needed to excel in health and biomedical research in academia and industry.

**APPLY BEFORE
15 APRIL**



GENERAL INFORMATION

Gain a deeper understanding of molecular mechanisms, complex biological systems, and the impact of environmental factors on health. Learn from experts and explore the latest advances shaping the future of research into health and disease, biomedicine and life sciences. Stay at the forefront of biomedical innovation and prepare for a successful career in medical research, including biotechnology and pharmaceuticals. Apply before 15 April to take the next step on your biomedical journey.

Exposome and Health, 7.5 credits

– Campus-based & Distance

Explore how lifelong environmental exposures – encompassing chemical, physical, biological, and social factors – affect human biology and contribute to disease development. This course delves into the exposome concept, providing insights into the interplay between genetics and environment, and equipping you with advanced tools to assess health risks and inform public health strategies.

Molecular Signaling in Health and Disease, 7.5 credits – Distance

Delve into the mechanisms of cellular communication and how intracellular signaling pathways regulate health and disease. This course offers indepth knowledge of signal transduction processes, emphasizing their roles in inflammation and stress responses, equipping you with analytical tools to dissect these complex pathways.

Systems Biology and Knowledge Representation, 7.5 credits – Campus-based & Distance

Discover how computational models and artificial intelligence can enhance our understanding of complex biological systems. This course explores systems biology approaches for integrating, analysing, and visualizing biological data, preparing you for cutting-edge research in biomedical science.

The Shield against Diseases: A Deep Dive into Vaccinology, 15 credits – Campus-based

Explore the science behind vaccines, from development and clinical trials to implementation and public health impact. Gain insights into immunology, epidemiology, and the latest vaccine technologies, preparing you for a career in research, healthcare, or industry.

Exposome and Systems Biology in Human Health and Disease, 15 Credits

– Campus-based & Distance

The course comprises two modules, ‘exposome in human health and disease’ and ‘systems biology and knowledge representation’.

PREREQUISITES

A first-cycle (bachelor’s) degree comprising at least 180 credits, of which at least 60 credits are within biomedicine, medicine, biology, chemistry, biochemistry or equivalent.*

The applicant must also have qualifications corresponding to the course “English B” or course “English 6” from the Swedish Upper Secondary School.

***Please note:** For the course Exposome and Health, students who have studied informatics, mathematics, statistics, or computer science as part of their bachelor’s degree also meet the prerequisites.

MORE INFORMATION

Please scan the QR code to get to the application website antagning.se. (Information in Swedish). For assistance with your application in English, please contact internationalmasters@oru.se

