Innate Immunity in Health and Disease

Do you want to know more about infectious diseases and to understand why and how some individuals get severe, life-threatening disease, whereas others are only mildly affected?

The international Master programme Innate Immunity in Health and Disease is coordinated by the cross-disciplinary iRiSC at Örebro University and is offered in collaboration with national and international research groups. Part of the program is intertwined with two other Master programmes, each supported by a strong research environment in medicine at Örebro University.

You will learn how the innate immune system detects and eliminates pathogenic microorganisms, infection strategies of virus and bacteria as well as the cellular and molecular mechanisms behind inflammatory responses, both infectious and sterile.

The Master programme Innate Immunity in Health and Disease will give you in-depth knowledge in microbiology, cell biology and molecular biology and give you the skills to use advanced scientific methodology. You will further be trained to design, perform and interpret laboratory research in the area of inflammation and infection medicine with a special focus on innate immunity and prepare you for PhD doctoral studies or for work with biomedical issues in the industry or in the health care system.

Programme outline
SEMESTER 1
Research Process: 15 credits
Advanced Cell and Molecular Biology: 12 credits
Research Methods in Inflammation and Infection: 3 credits

SEMESTER 2
Human Genomics and Bioinformatics: 15 credits
Inflammatory Responses: 15 credits

SEMESTER 3 and 4
Research Overview and Design: 15 credits
Masters Degree Project: 45 credits