

Rigi Workshop 2022 Cell Biology of Infection

30 January – 1 February 2022 • Rigi Kulm

Join us for a 3-days interdisciplinary workshop on top of the Rigi mountain. A team of experts and students will discuss the cellular mechanisms of microbial and viral infections.

#Rigiworkshop2022

Cell Biology of Infection

The Platform Biology of the Swiss Academy of Sciences presents the Rigi Workshop 2022

Infectious diseases are a significant threat to human and animal health, as well as to whole societies. Throughout history, viral, bacterial, and parasitic epidemics have plagued humans and livestock. While the etiology and manifestation of infectious diseases are vastly different, unifying principles are that viral, bacterial, and parasitic pathogens interact with, infect and destroy eukaryotic cells. The pathogens subvert pivotal cellular pathways by producing toxins, effectors and modulators, and they activate the immune system of the host. These processes unveil fascinating and sometimes entirely new biology. An in-depth molecular understanding of processes underlying pathogenesis not only provides insights into the mechanisms of diseases, but also offers intriguing glimpses into the cell biology of eukaryotic cells.

The interdisciplinary Rigi Workshop 2022 brings together PhD students and experienced scientists to discuss the concepts of microbial pathogens, including viruses and bacteria infecting humans, animals or plants. The workshop features poster presentations, short talks and team work projects. Keynote lectures will be delivered by leading experts in the field.

Organizers

PROF. DR. HUBERT HILBI, Swiss Society of Microbiology, UZH

PROF. DR. URS GREBER, Life Sciences Switzerland, UZH

CAROLINE REYMOND and PIA STIEGER, SCNAT

Where and when?

The 3-days course takes place in the hotel Rigi-Kulm on top of the Rigi Mountain, one of the most scenic places in Switzerland.

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Who can apply?

PhD students and Postdocs from all Swiss institutions of higher education. You can contact your doctoral school for the accreditation of ECTS.

Programme and Registrations

The preliminary programme is available online at biol.scnat.ch/de/activities/registration

The registration fee is CHF 150.- and includes housing and meals. Please register online and submit your abstract of research and a short letter of motivation by 30 September 2021. The organizing committee will select up to 40 outstanding applicants.

Lecturers

NIKOLA BILLER-ANDORNO, University of Zurich: "Risks and opportunities for society and medicine in times of pandemics"

MELANIE BLOKESCH, EPF Lausanne: "*Vibrio cholerae*"

ROLAND BROSCH, Institute Pasteur, Paris: "*Mycobacterium tuberculosis*"

CARMEN BUCHRIESER, Institute Pasteur, Paris: "*Legionella pneumophila*"

GABRIELLE VIEYRES, Heinrich Pette Institute, Hamburg: "RNA viruses"

MICHAEL WAY, The Francis Crick Institute, London: "Vaccinia virus"

CYRIL ZIPFEL, University of Zurich: "Concepts of innate immunity"