

Welcome to the Scheele Symposium in honour of the 2019 Scheele Award Laureate, Professor Emmanuelle Charpentier. The symposium focuses on various aspects of her research, including insights into the CRISPR-Cas technology, which has paved the way for development of new, effective treatments.

Take this opportunity to listen to some of the world's foremost scientists in genetic engineering.

Preliminary Program

- 08.45 Registration
- 09.15 Introduction and welcome *Märit Johansson*, Chair of the board, Swedish Pharmaceutical Society, Stockholm, Sweden

Genetic engineering

- Chair: Prof Bernt Eric Uhlin, Umeå University, Sweden
- 09.30 **The RNA biology of microbes a true treasure trove** Prof Dr *Jörg Vogel*, Institute Molecular Infection Biology, University of Würzburg, Germany
- 10.05 **Title to be announced** Prof *Anna Cereseto*, University of Trento, CIBIO, Italy
- 10.40 Coffee

CRISPR in Drug development drug discovery

- Chair: Prof Birgitta Henriques Normark, Karolinska Institutet, Sweden
- 11.10 **Precise Genome Editing to Empower Drug Discovery** Dr *Marcello Maresca*, associate director, Discovery Sciences AstraZeneca, Mölndal, Sweden
- 11.45 Using machine learning to predict mutational outcomes of CRISPR-Cas Dr Felicity Allen, Sanger Institute, UK
- 12.20 Lunch

Application of CRISPR-Cas Technology in Biology

- Chair: Prof *Birgitta Henriques Normark*, Karolinska Institutet, Sweden
- 13.30 **CRISPR in basic and applied plant biology** Prof *Stefan Jansson*, Department of Plant Physiology, Umeå University, Sweden
- 14.05 **Genetically tailored pigs as models for human diseases and organ donors for xenotransplantation** Prof Dr *Eckhard Wolf*, Gene Centre and Department of Biochemistry, Ludwig-Maximilian University of Munich, Germany
- 14.40 CRISPR/Cas9-based therapeutic strategies for betahemoglobinopathies
 Dr Annarita Miccio, Imagine Institute of genetic diseases, Sorbonne Paris Cité University, France
- 15.15 Coffee

Future Perspectives

Chair: Prof Bernt Eric Uhlin, Umeå University, Sweden

- 15.45 **CRISPR and beyond the bacterial immune system** Prof Dr *Rotem Sorek*, Department of Molecular Genetics, Weizmann Institute of Science, Rehovot, Israel
- 16.20 The Scheele Award Ceremony
- 16.50 **Scheele Award Lecture** Prof *Emmanuelle Charpentier*, Max Planck Unit for the Science of Pathogens in Berlin, Germany
- 17.30 End



