



The 2019 Scheele Symposium: CRISPR-Cas and gene therapy

November 28, Näringslivets hus, Stockholm



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.

Program

08.45 Registration

09.15 Introduction and welcome

Märıt 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 **Unlocking CRISPR technology for precise and efficient genome editing**

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 beta-hemoglobinopathies**

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**

Karin Meyer, CEO, Swedish Pharmaceutical Society and chair of the 2019 Scheele Award Committee. The prizes: *Märıt Johansson*, Chair of the board, Swedish Pharmaceutical Society

16.50 **Scheele Award Lecture**

Prof *Emmanuelle Charpentier*, Max Planck Unit for the Science of Pathogens in Berlin, Germany

17.30 End