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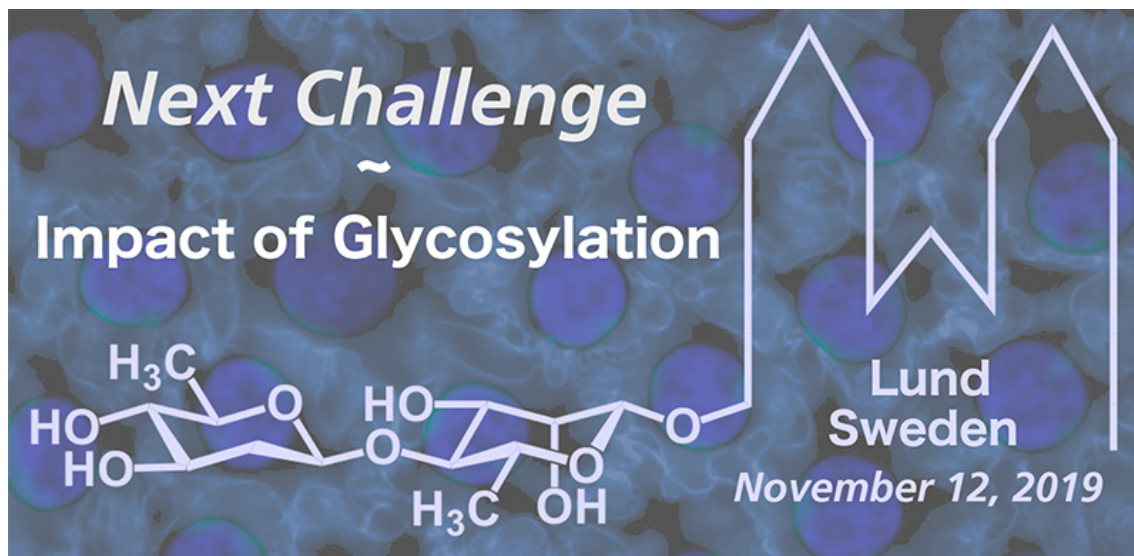
THE ROYAL SWEDISH ACADEMY OF SCIENCES

Next Challenge – Impact of Glycosylation

Date: 12 November, 09.00-17.00

Venue: Hörsalen, Medicon Village, Lund

Host: The Royal Swedish Academy of Sciences



Carbohydrates are important molecules in nature. Glycans on cells, on mucosal surfaces and in the extracellular matrix modulate and mediate interactions that are critical to the development and function of a complex multicellular organisms. New methodology and knowledge are rapidly emerging and has greatly expanded our understanding of the role of these biomolecules and how they can be prepared. This symposium aims at highlighting recent advances within this broad, complex, and interdisciplinary research area.

Programme

09.00 Welcome/information

Sven Lidin, the Royal Swedish Academy of Sciences, Sweden

09.05 Introduction

Ulf Lindahl, the Royal Swedish Academy of Sciences, Sweden

09.30 Genome-wide Strategies to Understand Glycans

Jeffrey Esko, University of California San Diego, USA

10.10 Making complex glycan synthesis easy

Geert-Jan Boons, University of Georgia, USA



10.50 Coffee break

11.20 Glycan-mediated regulation of immune cell signaling

James Paulson, Scripps Research Institute, USA

12.00 Lunch

13.00 Automated Glycan Assembly as Basis for Molecular Glycobiology, Vaccine Development and Material Science

Peter Seeberger, Max Planck Institute of Colloids and Interfaces, Germany

13.40 Recombinant and engineered lectins for research and diagnostics

Anne Imberty, CNRS Grenoble, France

14.20 Coffee break

14.50 The Mechanisms of Glycans in and on Proteins

Ben Davis, Oxford University, UK

15.30 Nutrient Regulation of Signaling & Transcription by O-GlcNAcylation

Gerald W. Hart, University of Georgia, Athens, USA

16.10 Harnessing Chemistry to Understand the Roles of Glycosylation in Neuroplasticity

Linda Hsieh-Wilson, Caltech, USA

16.50 End of Symposium

The Symposium is organised by the Academy's class for chemistry, biosciences and medical sciences.

Organising committee:

Peter Somfai, the Royal Swedish Academy of Sciences

Olof Ramström, the Royal Swedish Academy of Sciences

Lena Kjellén, the Royal Swedish Academy of Sciences

Gunnar C. Hansson, the Royal Swedish Academy of Sciences

Louise Dahlgren, administrator, the Royal Swedish Academy of Sciences

The symposium is free of charge and open to the public but registration is required for all participants. **Please state eventual food preferences or allergies in the registration form.**

For more information and registration: www.kva.se/glycosylation