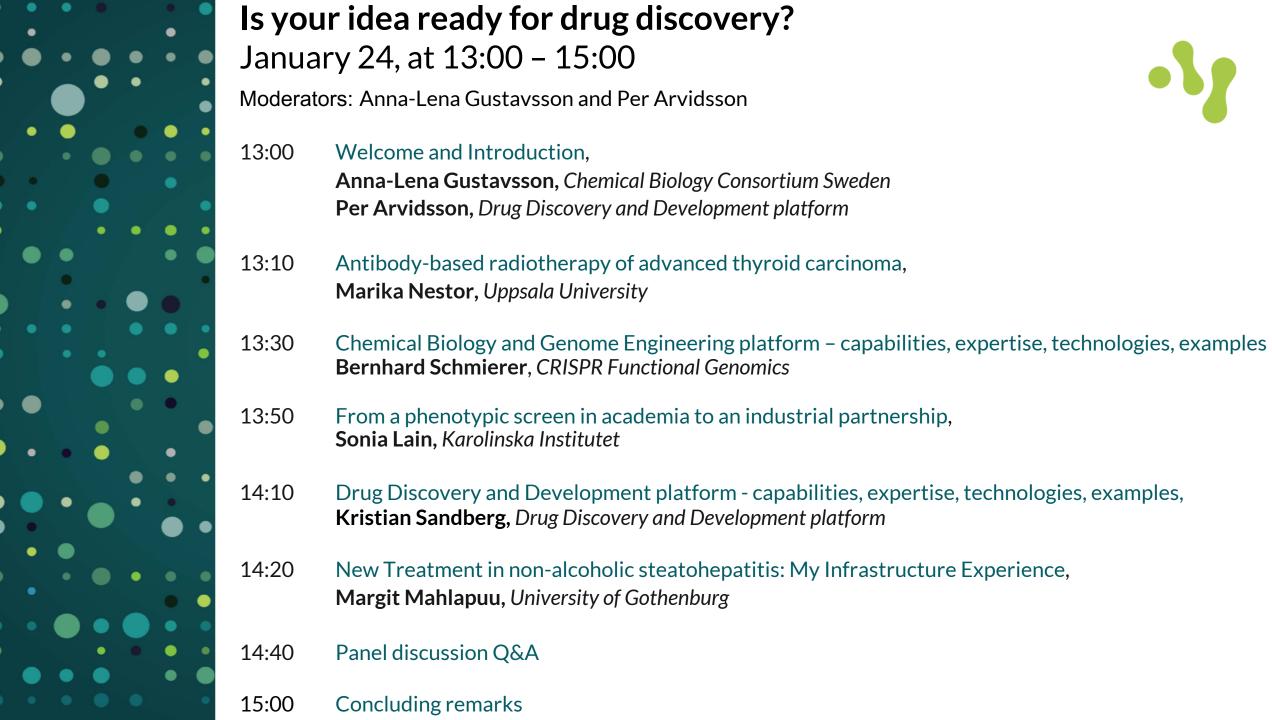


## SciLifeLab Infrastructure outreach week

January 24-27, 2022 on Zoom

During four sessions we would like to highlight our capabilities to provide services within the research areas 1) drug discovery, 2) precision medicine, 3) ecosystem surveillance and evolutionary biology and 4) structural biology.

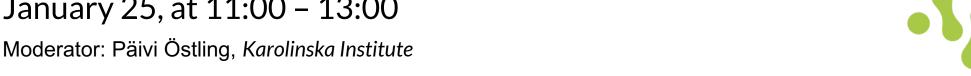
We will present relevant technologies available at SciLifeLab and illustrate their utilization by user cases related to the topic of each session





## **Towards enabling Precision and Translational Medicine**

January 25, at 11:00 - 13:00





11:00	Welcome and Introduction,
	Päivi Östling, Karolinska Institute

- 11:20 Towards precision medicine in myelodysplastic syndromes, **Eva Hellström Lindberg**, Karolinska Institute
- 11:35 Data-driven molecular hallmarks of acute myeloid leukemia **Tom Erkers**, Karolinska Institute
- 11:50 Break
- 12:00 A plunge into the complex immune response to malaria **Christopher Sundling**, *Karolinska Institute*
- Single cell immune landscape of human neuroblastoma 12:15 **Shahrzad Shirazi Fard**, *Karolinska Institute*
- 12:30 Gestional diabetes and obesity in the PONCH study: metabolic consequences for mother and child, **Ulrika Andersson Hall**, University of Gothenburg
- 12:45 Panel discussion Q&A
- 13:00 End of the program



## **Evolution, molecular ecology and environment**

January 26, at 10:00 - 12:00

Moderator: Magnus Lundgren, *Uppsala University* 



10:00	Welcome and Introduction,
	Olga Vinnere-Pettersson, SciLifeLab National Genomics Infrastructure

10:15 Early Pleistocene DNA unravels the genomic history of mammoths, Love Dalén, Swedish Museum of Natural History

10:30 Characterization of complex host-parasite systems for understanding their interactions, Maliheh Mehrshad, SLU

Using RNA Sequencing to study interactions between forest trees and root associated fungal species, Nathaniel Street, Umeå University

11:00 Break

10:45

11:15 Evolution of Cellular Complexity in Bacteria, Siv Andersson, Uppsala University

11:30 Sequencing the supergene that governs Darwin's "different forms of flowers" Tanja Slotte, Stockholm University

11:45 Panel discussion Q&A

12:00 End of the program



## Visualising life at the molecular level

January 27, at 10:00 - 12:00

Moderator: Marta Carroni, Stockholm University





10:35 Cooperativity of  $\alpha$ -synuclein binding to lipid membranes Katarzyna Makasewicz, Lund University

10:50 Break

11:00 In-situ and in-cell NMR deciphering the processes in neurodegeneration, **Irena Matečko-Burmann**, University of Gothenburg

11:15 Omics of sleep loss, Jonathan Cedernaes, Uppsala University

11:30 Structure of the native Mega-dalton pyruvate dehydrogenase complex reveals the mechanism of substrate insertion, **Pål Stenbecks**, Stockholm University

11:45 Panel discussion Q&A

12:00 End of the program











SciLifeLab has been created by the coordinated effort of four universities in Stockholm and Uppsala: Stockholm University, the Karolinska Institutet, KTH Royal Institute of Technology and Uppsala University.