

DDLS Annual Conference 2026

Program

November 9

11:00 Registration opens

11:30 Light lunch

12:30 **Introduction and Welcome**

Jan Ellenberg, SciLifeLab Director

Carolina Wählby, Uppsala University and SciLifeLab

Erik Kristiansson, Chalmers/University of Gothenburg and SciLifeLab

12:50 **Three Impactful Problems in Drug Discovery That Might Be Solvable with Machine Learning (and What We Are Doing About Them at Relation Therapeutics)**

Lindsey Edwards, CTO & President of Platforms, Relation Therapeutics, London, UK

13:30 **Panel Discussion**

Moderators: *Ola Engkvist*, Executive Director, AstraZeneca & Adjunct Professor, Chalmers;
Tuuli Lappalainen, Professor, KTH/SciLifeLab

Panel:

Gianfranco Grompone, PhD, CSO, BioGaia AB & Affiliated Scientist, Univ. of Gothenburg

Lina Hultin Rosenberg, Director Data & Analytics, R&D, Olink / Thermo Fisher

Peetra Magnusson, PhD, Assoc. Prof., Dept. of IGP & DDLS Director, Uppsala Univ.

Patrik Rydén, PhD, Prof. of Math Statistics & IDS Director, Umeå University

Lindsey Edwards, CTO & President of Platforms, Relation Therapeutics, London, UK

14:00 Poster Session I (odd numbers) with Coffee

15:00 **DDLS Fellows talks**

Steering AlphaFold through the distogram

Nicholas Pearce, UU

Predictors of genome-wide variation in the effects of new mutations

Jennifer James, UU

Towards autoregularization of reconstruction and datamining in cryo-EM

Björn Forsberg, LiU

16:00 Meet the new DDLS Fellows

16:15 **Presentation of NAISS**

Erik Lindahl, LiU, director of NAISS

16:30 Poster Session II (even numbers) with Mingle

17:30 End of Day 1

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November 10

09:00 DDLS Fellows talks

Leveraging Population Genomic Data to Understand Clonal Hematopoiesis and Blood Cancer Risk

Abhishek Niroula, GU

Understanding Cancer Heterogeneity Through Machine Learning and Molecular Networks

Golnaz Taheri, KTH

10:00 Coffee Break

10:45 **Top-Down and Bottom-Up Exploration of Alternative Community Types in the Human Gut Microbiome**

Karoline Faust, Associate Professor, KU Leuven, Belgium

11:25 **Presentations of DDLS funded projects**

Learning 3D genome dynamics from heterogeneous data

Johan Elf, UU

Multimodal AI-based Precision Diagnostics and Decision Support for Breast Cancer (AID4BC)

Mattias Rantalainen, KI

TIMED: Time-Resolved Imaging and Multi-Channel Evaluation of Cellular Dynamics

Rocio Mercado, Chalmers; Ola Spjuth, UU

Microscopy Foundation Model & AI-Ready Data Hub for Smart Microscopy

Hanzhao Zhang, LiU

Swedish Metabarcoding Network (SMN)

Tobias Andermann, UU

TissUUmaps RDCP

Carolina Wählby, UU

CRITICAL MICROBES – Comprehensive Research on Infectious Complications Across the Lifespan – MICROBiology Epidemiology in Sweden

Anne-Marie Connolly, UmU

Closing Words and Best Poster Award

12:40 Lunch and Networking

13:30 **Optional Workshop Organised by SciLifeLab Data Centre:**

How to Use LLMs to Present Results from Your Research Project as a Web Application