



SciLifeLab Epigenomics Symposium

November 10, 2025, Tripplerummet, Entrance C11, SciLifeLab, BMC, Uppsala

Welcome and Introduction

9.00-9.10 Jessica Nordlund (SciLifeLab Genomics, UU), Colum Walsh (SciLifeLab Clinical Genomics, LiU), Elin Kronander (SciLifeLab NBIS, UU)

Session 1: Medical Epigenomics I: Chair Jessica Nordlund

- 9.10-9.40 Keynote: *Epigenetic diagnostic classification of cancer*, Philipp Euskirchen, Charité - Universitätsmedizin Berlin, Germany
- 9.40-10.00 *Epigenome as a mediator of risk factors in Multiple Sclerosis*, Lara Kular - Karolinska Institutet, Sweden
- 10.00 -10.20 *Implementing DNA methylation for clinical diagnosis in Sweden*, Colum Walsh, Linköping University, Sweden
- 10.20-10.35 Sponsor Talk: *Enabling integrated epigenetic and genetic profiling with Illumina 5-base solution*, Anthony Roges - Illumina

10.35-11.05 **Coffee break:** *Mingle with exhibitors, NGI OpenLab tours*

Session 2: Medical Epigenomics II: Chair Colum Walsh

- 11.05 - 11.35 Keynote: *Tracing the origin and evolution of lymphoid tumors by DNA methylation*, Martí Duran-Ferrer - Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona
- 11.35 - 11.55 *Advancing T-ALL/T-LBL diagnostics through DNA methylation profiling*, Sofie Degerman - Umeå University
- 11.55-12.15 *Episignatures as a new tool to solve undiagnosed rare diseases*, Angelica Delgado Vega - Karolinska University Hospital and Karolinska Institutet
- 12.15 -12.30 Sponsor Talk: *Challenging Samples to NGS Success*, Xiaojing Yang - Zymo Research

12.30 -13.30 **Lunch:** *Mingle with exhibitors, NGI OpenLab tours*

Session 3: Computational approaches and new methods. Chair Agata Smialowska

- 13.30-14.00 NBIS BIG Talk: *Best practices and common pitfalls in methylome sequencing analysis*, Reka Toth - Luxembourg Institute of Health
- 14.00-14.20 *From Bulk to Single-cell Epigenomics*, Amanda Raine – SciLifeLab Genomics, Uppsala University
- 14.20 - 14.35 Sponsor Talk: *Decoding the epigenome with Oxford Nanopore real-time methylation detection*, Christos Coucoravas - ONT
- 14.35 - 14.50 Sponsor Talk: *TAPS Methylation Analysis Unlocks Comprehensive Tumor Multiomics*, Rajat Roy - Watchmaker Genomics
- 14.50 -14.55 Sponsor Talk: *Multiplexed Quantitative Epigenomic Profiling*, Sara Hosseini - Epigenica

14.55- 15.35 **Coffee break:** *Mingle with exhibitors, NGI OpenLab tours*

Session 4: Epigenomics in behavior, environment, and biodiversity: Chair Amanda Raine

- 15.35 - 15.55 *The epigenetic clock - which loci lose/gain 5mC methylation with age in humans and across mammals*, Carl-Johan Rubin - Uppsala University
- 16.55 - 16.15 *Epigenetic regulation of hybrid incompatibility in plants*, Katarzyna Dziasek - Swedish University of Agricultural Sciences
- 16.15 - 16.45 Keynote: *How the Atlantic herring became a keystone species in the brackish Baltic Sea*, Leif Andersson - Uppsala University

16.45 – 16.50 **Closing remarks**

16.50- 17.30 **Wine and cheese reception,** *Mingle with exhibitors, NGI OpenLab tours*

This event is made possible by the kind support from:



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