

# DDLS symposium Imaging in Cell and Molecular Biology

March 17-18  
Ångström Laboratory, Uppsala

## Program

### March 17

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- 12:00 Lunch and Registration
- 13:00 Physical properties of cells and nanoscale bioparticles as new biomarkers of health and disease, *Erdinc Sezgin, KI*
- 13:30 Optical Pooled Screening, *Johan Elf, UU*
- 13:50 Using live imaging to determine mechanisms of T cell tolerance induction in tissues during type 1 diabetes, *Robin Lindsay, UU*
- 14:10 Linking genetic modifications to cell biomechanics in plants using spatial chemical imaging, *Edouard Pesquet, SU*
- 14:30 National Data Services for Imaging in Cell and Molecular Biology, *Sverker Holmgren, Data Science Node, Cell and Molecular Biology*
- 14:50 Coffee
- 15:30 Functional, multidimensional optical microscopy to analyze the function of myeloid cells during bone regeneration, *Anja Hauser, DRFZ, Germany*
- 16:15 Unraveling the Molecular Architecture of the Intestinal Barrier: Insights from Spatial Transcriptomics, *Eduardo Villablanca, KI*
- 16:45 Subcellular protein architecture of human sperm, *Emmie Pohjanen, KTH*
- 17:05 Reflections from the day
- 17:10 Poster session and industry exhibition, networking and refreshments

### March 18

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- 08:45 Welcome back for day 2
- 08:50 High-throughput experimental approaches for quantifying the thermodynamics of biomolecular condensate formation, *Rasmus Krogh Norrild, DTU, Denmark*
- 09:20 Quantitative Imaging of Protein Networks and Genome Structure in Single Human Cells and an Outlook on Alpha Cell, *Jan Ellenberg, Director SciLifeLab*
- 09:50 Coffee
- 10:30 Structural basis for bacterial protein disaggregation and proteolysis, *Marta Carroni, SU*
- 11:00 Unleash the Power of Generative AI for Data-Driven Cell Biology, *Wei Ouyang, KTH, DDLS Fellow*
- 11:30 cryoSPHERE: Single-Particle Heterogeneous REconstruction from cryo EM, *Lukas Grunewald, UU*
- 11:50 Human intestinal organoids as an advanced 3D model for drug absorption and nanoparticle uptake, *Madlen Hubert, UU*
- 12:10 Closing words
- 12:20 Lunch

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## Practical information

### Registration on March 17 at 12:00

Please register with the QR-code sent by email the day before the event. We ask you to wear your name badge during the entire event.

### Late registrations

Please register your attendance at the Registration desk and write your own name badge upon arrival.

### Lunch and Coffee

Special dietary requirements (only registered) will be marked. It is not allowed to bring food or beverages into the lecture hall.

### The poster session and Industry exhibition

will take place in rooms 101136 (Evelyn Sokolowski) for paper posters and 101142, which has six digital screens. Food and drinks will be served. Please hang your poster during the Coffee break at 15:00.

### Wi-Fi

Use Eduroam or choose the UU-guest network. Click "Create new account" to get a 24-hour account. You will receive an SMS to the mobile number you provided with your username and password.

### Safety Plan

Evacuation plans showing escape routes and assembly points are posted in all premises in the Ångström laboratory. They also include information on what to do in case of fire.

### Questions

Contact [events@scilifelab.se](mailto:events@scilifelab.se)