

Welcome to Integrated Structural Biology SciLifeLab 4th users meeting

December 10, 2024



Location: Air and Fire, Tomtebodavägen 23a, Solna

December 10, 9-16

- 9.00-9.10 **Welcome and introduction**
- 9.10-9.30 **Oscar Jungholm, Karolinska Institute**
Crystals, KRAS, and Core Collaborations: My Journey Through Protein Science
- 9.30-9.50 **John Cowgill, Stockholm University**
Structural basis for activation and potentiation in a human $\alpha 5\beta 3$ GABAA receptor
- 9.50-10.10 **Nicholas Croy, Uppsala University**
Investigating the catalytic mechanism of Rubisco with high-resolution cryo-EM
- 10.10-10.40 Fika**
- 10.40-11.00 **Julia Kinsolving, Karolinska Institute**
Structural and functional characterization of Frizzled-7 for drug discovery
- 11.00-11.20 **Josy ter Beek, Umeå University**
A first glimpse of a Gram-positive Type 4 Secretion system that facilitates the spread of antibiotic resistance
- 11.20-11.50 **Marten Chaillet, Utrecht University**
3D template matching allows automated picking in cryo-electron tomography
- 12.00-13.00 Lunch**
- 13.00-14.30 **Flash talks from infrastructures**
Protein Production Sweden, Tomas Nyman, Karolinska Institute
ProLinC, Dean Derbyshire, Linköping University
Cryo-EM, Tim Schulte, Stockholm University
Swedish NMR Centre, Cecilia Persson, University of Gothenburg
Structural Proteomics, Simon Ekström, Lund University
PReSTO, Martin Moche, Karolinska Institute
- 14.30-15.00 Fika**
- 15.00-15.20 **Arvid Eskilson, Linköping University**
Functional mutations of USP14 reveal dynamic networks connecting the active site and proteasome interaction surface.
- 15.20-15.40 **Maximilian Kahle, Stockholm University**
CryoEM structure of the NorQD metallo-chaperone complex
- 15.40-16.00 **Wrap-up**