Sweprot 2026

List of Abstracts for Poster Presentations

No	First name	Last name	Affiliation	Presentation
1	Sigrid	Berglund	Uppsala University	Design, production and evaluation of a de novo enzyme for hydrogen evolution
2	Christopher	Dirks	Karolinska Institutet	Systematic profiling of drug metabolite interactions with the dNTPase SAMHD1
3	Hillevi Fjellström and Jonna Lidén		Totalförsvarets forskningsinstitut FOI	Modulation of Acetylcholinesterase Dynamics by Ethyl Paraoxon
4	Gina	Jackisch	University of Gothenburg	Electric-field-stimulated protein mechanics to study structural changes in yeast aquaporin AQY1
5	Angelica	Nash	Lund University	Unravelling the true identity of XIP1;1α in Nicotiana benthamiana
6	Johannes	Panagiotidis	University of Gothenburg	Investigating hAQP4 Inhibition and its Protein-Protein Interactions
7	Helin	Strandberg	Lund University	Decoding the AQP-Ezrin connection: a structural and functional insight into their interactions
8	Susana	Fernandes	Stockholm University	Cotranslational folding of an integral membrane protein GlpG into an artificial protein WRAP
9	Ane	Metola	Stockholm University	How can the cell assemble complex structural motifs of integral membrane proteins?
10	Filippo	Perego	Lund University	Molecular basis of human Aquaporins inhibition
11	Isabel	Bento	MAX IV Laboratory	BioMAX at MAX IV: Enabling Diverse Approaches in Macromolecular Crystallography
12	Alexander	Korsunsky	Linköping University	Do AlphaFold Ensembles Capture Side-Chain Fluctuations? A Large-Scale Benchmark Against MD and PDB Homologs
13	Dean	Lang	MAX IV Laboratory	MAX 4U- the first fourth-generation lightsource upgrade
14	Bernadette	Mayer	University of Gothenburg	Elucidating KcsA structural dynamics using time-resolved X-ray solution scattering and molecular dynamics simulations
15	Ilari	Rautio	Lund University / RISE RESEARCH INSTITUTES OF SWEDEN	De Novo Design of Mini-Protein Inhibitors Targeting Urocanate Reductase
16	Antonio	Rodriguez Blazquez	Umeå University	Deciphering the molecular mechanism of a novel cryptosporidiosis therapy
17	Valerio	Romano	University of Gothenburg	Functionalization of KcsA for Time-Resolved Structural Studies
18	Gabriela	Schröder	MAX IV Laboratory / Lund University	TR+: Time-Resolved Photons for Life Science at MAX IV
19	Anton	Sellerberg	BioMS Lund	HDX-MS, Integrating Machine Learning for Improved Data Interpretation

20	Claudia	Alleva	Stockholm University	Computational characterization of proton coupling in Xyle
21	Ashish	Kawale	Swedish NMR Centre at the University of Gothenburg	From DNA to Protein in under 4 hours using Automated Cell-Free Protein Synthesis
22	Tamim	Al-Jubair	Lund University	Cryo-EM Enabled Drug Discovery Targeting Aquaporin-4 in Brain Edema
23	Moa	Carlsson	University of Gothenburg	Electron microscopy and Tomography studies of Caenorhabditis elegans mitochondrial respiratory complexes during anoxic conditions
24	Constantinos	Chatzicharalampous	Lund University	Structural analysis and protein-protein interactions of the multidomain PARP14 enzyme
25	Oscar E.	Chiang	University of Gothenburg	Structural studies of proteins with therapeutical potential
26	Yui Yee	Chow	University of Gothenburg	Structural diversity of the spermatozoon end piece
27	Haritha	D	Uppsala University	How a multifunctional bacteriophage protein counteracts bacterial defense: Structural basis of inhibition of E. coli Type I RM system by T3 SAM lyase
28	Taylor	Devlin	Umeå University	Structural and Thermodynamic Insights into Adhesin-Mediated Pathogenesis in Enterococci
29	Dinesh	Dhurvas Chandrasekaran	Umeå University	Optimizing Semliki Forest Virus Replication Organelle Purification for Cryo-electron Tomography of the Neck Complex
30	Anna-Lena	Fischer	Uppsala University	From old find new: Unraveling phytochrome structural dynamics from single-particle cryo-EM using cryoSPHERE
31	Simon	Gripvall	Lund University	Structural basis of interacting complexes in the intracellular relocalisation of Aquaporin-4
32	Johanna	Hultman	Linköping University	The N-Myc MB0-MBI region interacts specifically and dynamically with the N-lobe of Aurora kinase A
33	Juliane	John	Stockholm University	Investigation of a novel group of small ribonucleotide reductases
34	Koen	Jurgens	Stockholm University / SciLifeLab	Structural basis for the interplay between VCP/p97 and ataxin-3
35	Bhavna	Kumari	Umeå University	Solving the Structure of Needle-Shaped LolB Microcrystals from Shigella via MicroED
36	Finja	König	Stockholm University	The structure and function of cytochrome c dependent Nitric Oxide Reductase from Paracoccus denitrificans.
37	Clara	Manesco	Uppsala University	Unlocking the viral capsid: crown protein and pore structural and functional analysis in dsRNA Virus
38	Katharina	Niekamp	Stockholm University	Investigation of tyrosyl-radical maintenance in ribonucleotide reductase
39	Kendra	Njo	Uppsala University	Elucidating the Structures of Blue-Light Photoreceptor Proteins and Their Light-Induced Intermediate States

40	Maria	Nowakowska	Stockholm University	Botulinum neurotoxins exploit host digestive proteases to boost their oral toxicity via activating OrfX/P47
41	Filip	Perschke	Uppsala University	Developing micro-to-milisecond time resolved cryo-EM using caged ATP - GroEL a proof of concept
42	M. Cäcilie	Schmidt	Stockholm University	Structural Basis of a Subtype-specific Modulator in a Human GABA(A) Receptor
43	Bina	Singh	Umeå University	Role of NS4B protein in the formation of the Replication Complex in Langat Virus
44	Marie	Sorin	Umeå University	Structural characterization of Human Adenoviruses D56 and D36
45	Emilia	Strandback	Karolinska Institutet	Protein Science Facility, Karolinska Institutet
46	Catherine	Thomas	Lund University	Small Molecule HIV-1 Nef Inhibitors Disrupt Nef Homodimer Formation in vitro
47	Ellen	Walse	Stockholm University	Decoding Botulinum Neurotoxins: Harnessing Single Particle Cryo-EM for Molecular Insights
48	Stacey	Wassel	Lund University	In vitro analysis of PARP11 suggests functional relevance of dimerization
49	Elin	Hellquist	University of Gothenburg	Trans-hyponitrite ($N_2O_2^{2-}$) adopts an unconventional ligand binding mode in ba3-type cytochrome c oxidase
50	Josefin	Ridaeus	University of Gothenburg	Structural studies of the bacterial cytochrome P450 DitU using serial crystallography towards time-resolved studies
51	Annica	Saaret	Stockholm University	Crystallographic fragment screening for a small cancer target
52	Amrita	Salim	Umeå University	Elucidating the structure & self-regulation of PrgK-mediated cell wall remodeling in E. faecalis during conjugation
53	Hannah	Wickbom	Linköping University	Structural insights into the 2A2 protein from Duck Hepatitis A virus
54	Vilmina	Yngvesson	Lund University	PARP15 and PARP14 Mediate ADP-Ribosylation of PKM2