

## Program Tiselius symposium August 28, 2025

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| <i>Session 1</i>  | <i>Chairs Mikael Widersten &amp; Erik Marklund</i>  |
| 09:00 – 09:05     | <b>Ylva Ivarsson</b> (Chemistry - BMC, UU, Sweden)<br>Welcome Remarks   |
| 09:05 – 09:15     | <b>Helena Danielson</b> (Chemistry - BMC, UU, Sweden)<br>Tiselius and Biochemistry in Uppsala   |
| 09:15-09:20       | <b>Eva Tiselius Bohlin</b><br>Memories and reflections as daughter to Arne  |
| 09:20 – 09:45     | <b>Lori Passmore</b> (MRC LMB, Cambridge, UK)<br>Molecular insights into the mRNA poly(A) tail machinery  |
| 09:45 – 09:55     | <b>Maria Selmer</b> (ICM, UU, Sweden)<br>Doublet decoding of tRNA <sup>Ser3</sup> demonstrates plasticity of ribosomal decoding center.   |
| 09:55 – 10:20     | <b>Arne Elofsson</b> (Stockholm University, Sweden)<br>Towards a complete human interactome   |
| 10:20 – 10:45     | Coffee Break and poster session (odd numbers)   |
| <i>Session 2:</i> | <i>Chair Ylva Ivarsson</i>  |
| 10:45 – 11:10     | <b>Katja Luck</b> (IMB, Mainz, Germany)<br>Variant characterization in the intrinsically disordered human proteome  |
| 11:10 – 11:20     | <b>Laszlo Dobson</b> (Institute of Molecular Life Sciences, Budapest, Hungary)<br>Insights into pathogen sorting systems with the combination of structural modeling and deep learning          |
| 11:20 – 11:30     | <b>Liuqun Zhao</b> (ICM, UU, Sweden)<br>$\Delta 133p53\alpha$ and $\Delta 160p53\alpha$ isoforms of the tumor suppressor protein p53 exert dominant-negative effect primarily by co-aggregation |
| 11:30 – 11:40     | <b>Axel Leppert</b> (ICM, UU, Sweden)<br>Combining native MS, Mass Photometry, and AI-Based Modeling to capture LLPS-specific interactions.   |
| 11:40 – 12:05     | <b>Markku Varjosalo</b> (University of Helsinki, Finland)<br>Exploring Protein-Protein Interactions in Disease and Therapy  |
| 12:05 – 12:10     | <b>Jesper Hedberg</b><br>Testa Center/Testa Challenge   |
| 12:10 – 13:25     | Lunch Break and poster session (odd and even numbers)   |
| <i>Session 3:</i> | <i>Chair Sebastian Westenhoff</i>   |
| 13:25 – 13:50     | <b>Richard Neutze</b> (University of Gothenburg, Sweden)<br>Time-resolved serial crystallography studies of conformational changes in cytochrome c oxidase                                      |
| 13:50 – 14:00     | <b>Gabriel Ducrocq</b> (Chemistry – BMC, UU, Sweden)<br>CryoSphere - single particle heterogenous reconstruction from cryoEM  |
| 14:00 – 14:10     | <b>Sofia Badolato</b> (DBB, Stockholm University, Sweden)<br>Gating principles of proton transport in dissected modules of respiratory Complex I  |

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| 14:10 – 14:20     | <b>Laura Muras</b> (ICM, UU, Sweden)<br>Deciphering the mechanochemical determinants of nucleosome positioning  |
| 14:20 – 14:45     | <b>Katja Petzold</b> (KI & UU, Sweden)<br>Dancing RNA: How RNA structural dynamics is the key to function   |
| 14:45 – 15:15     | Coffee Break and poster session (even numbers)  |
| <i>Session 4:</i> | <i>Chairs Moritz Senger &amp; Helena Danielson</i>  |
| 15:15 – 15:40     | <b>Geoff Holdgate</b> (ex-AstraZeneca, UK)<br>The Value of Traditional Skills: Enzymology & Biophysics in Early Drug Discovery  |
| 15:40 – 15:50     | <b>Guillaume Gaullier</b> (Chemistry - Ångström, UU, Sweden)<br>Structures of active and inactive carboxysomal carbonic anhydrase   |
| 15:50 – 16:00     | <b>Kushal Sengupta</b> (Max Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr, Germany)<br>Understanding the Reaction Mechanism of Vanadium Nitrogenase: Insights from Spectroscopy and Biochemistry |
| 16:00 – 16:25     | <b>Philip Ash</b> (University of Leicester, UK)<br>Electrifying the future of crystallography: combining techniques for mechanistic insight   |
| 16:25 – 16:30     | <b>Sebastian Westenhoff</b> (Chemistry – BMC, UU, Sweden)<br>Closing Remarks<br><i>End</i>  |

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QR code for abstract book

