**Nordic POP – program**

20-22 August 2025, Copenhagen, Denmark

Day 1, Wednesday 20/8

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| 15:00-16:00 | Registration and poster mounting |
| 16:00-16:30 | Welcome & introduction  Jukka Rantanen & Andrea Heinz, University of Copenhagen |
|  | Session 5 – Synchrotron Session Chair: Samuel Lenton |
| 16:30-17:00 | Keynote lecture  Reidar Lund, University of Oslo, Norway  “Antimicrobial Peptides and Their Mode of Action: What Can We Learn from Scattering Techniques?” |
| 17:00-17:20 | Lea Wurr, University of Helsinki, Finland  Investigating the behaviour of amorphous solid dispersions with stimulated Raman scattering microscopy |
| 17:20-17:40 | Matteo Guidetti, University of Southern Denmark, Denmark, “Unravelling the elusive nature of crystalline Form S of posaconazole”” |
| 17:40-18:00 | Inês C. B. Martins, University of Copenhagen, Denmark, “Exploring amorphous *diversity* in pharmaceuticals using combined analytical methods with computational modelling” |
| 18:00-19:00 | Poster session |
| 19:00 | Reception |

Day 2, Thursday 21/8

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|  | Session 2 – Product Session Chair: Natalja Genina |
| 9:00-9:30 | Keynote lecture  Alexandra Teleki, Uppsala University, Sweden  “Theranostic inorganic nanoparticles for local treatment of gastrointestinal diseases” |
| 9:30-9:50 | André L. C. S. Nascimento, University of Copenhagen & Astra Zeneca, Sweden  Enabling a supersaturated state of PROTACs in SNEDDS via combination with ASDs |
| 9:50-10:10 | Mai Soliman, University of Helsinki, Finland, “Sweet Encounters: Studying nanoparticle-glycan interactions by metabolic labeling and click chemistry” |
| 10:10-10:30 | Ana Ćuk, University of Oslo, Norway  Development of an Injectable Hydrogel for Local Drug Delivery by Exploiting Synergism between Polysaccharides and Thermoresponsive Block Copolymers |
| 10:30-11:00 | Coffee break |
|  | Session 3 – Engineer Session Chair: Mette Klitgaard |
| 11:00-11:30 | Keynote lecture  Daniel Markl, University of Strathclyde, UK  “A Self-driving Drug Product DataFactory for Accelerated and Sustainable Development” |
| 11:30-11:50 | Petteri Parkkila, Chalmers University of Technology, Sweden  “Unveiling structure and biomarker heterogeneity of single extracellular vesicles using waveguide scattering microscopy” |
| 11:50-12:10 | Xuedan Sun, University of Copenhagen, Denmark  “Sustainable electrospun protein nanofibers for wound healing” |
| 12:10-12:30 | Yuming Zhang, Uppsala University, Sweden  “A magnetic heating triggered SPION-wax capsule for colon drug delivery with ultrasound imaging assistance” |
| 12:30-13:00 | Lunch |
| 13:00-14:00 | Poster session |
|  | Session 4 – Analytics Session Chair: Andrea Heinz |
| 14:00-14:30 | Keynote lecture  Christian Janfelt, University of Copenhagen, Denmark  “Seeing the drug – pharmaceutical applications of mass spectrometry imaging by DESI-MSI and MALDI-MSI” |
| 14:30-14:50 | Melissa Hendrén, University of Helsinki, Finland “Development and Validation of Imaging Methods for Intracellular Drug Delivery of Oligonucleotide-Based Drugs” |
| 14:50-15:10 | Jakob Tobias Lynnerup, University of Southern Denmark, Denmark “Untangling “Dissolved” Drug Species from Various Formulations of a Poorly Soluble Drug: Sampling Methods, Mechanistic insight, and IVIVC” |
| 15:10-15:30 | Caroline Lööf, Chalmers University of Technology, Sweden “Investigating the chemical signature of prostate cancer using mass spectrometry” |
| 15:30-16:00 | Coffee break |
|  | Session 1 – Barrier Session chair: Mie Kristensen |
| 16:00-16:30 | Keynote lecture  Emma Sparr, Lund University, Sweden  “The stratum corneum barrier - from molecular scale to macroscopic properties” |
| 16:30-16:50 | Dinh Son Vo, Uppsala University, Sweden  “3D human ileal organoids – a potential screening tool for advanced oral drug delivery systems” |
| 16:50-17:10 | Janni Støvring Mortensen, University of Copenhagen, Denmark  “Ex vivo mucus-covered Caco-2 cell monolayer model – Compatibility studies” |
| 17:10-17:30 | Felix Paulus, University of Southern Denmark, Denmark  “In situ formation of stable indomethacin-calcium nanoparticles with enhanced permeation properties in lipolysis buffer” |

Day 3, Friday 22/8

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|  | Session 6 – Modelling & simulations Session chair: Inês C. B. Martins |
| 9:00-9:30 | Keynote lecture  Mark Coles, University of Oxford, UK  “Combining Experimental & Systems Approaches to Accelerate and De-risk Immuno-Therapeutic Development” |
| 9:30-9:50 | Xiaoxiao Liang, University of Copenhagen, Denmark  “Unraveling Conformational Diversity and the Energy Landscape of Osimertinib Polymorphs through 3D Electron Diffraction and Computational Modeling” |
| 9:50-10:10 | Benyamin Naranjani, Uppsala University, Sweden  “Modeling macromolecular absorption under MMC: Impact of anesthesia, permeation enhancement, and species differences” |
| 10:10-10:30 | Osman Gani, University of Oslo, Norway  “Integrating deep learning into Alchemical Free Energy Calculations for lead discovery and optimization” |
| 10:30-11:00 | Coffee break |
| 11:00-12:00 | Work package meetings |
| 12:00-12:30 | Closing session including awards  Jukka Rantanen, Andrea Heinz & Nordic POP 2025 organizing team |
| 12:30-13:30 | Lunch and poster demounting |