

LINXS Antibody Final Meeting

Lund, 25/26 September 2024

Location: LINXS venue, IDEON Building: Delta 5 (5th floor), Scheelevägen 19, Lund

Wednesday afternoon, 25 September 2024

12:15 – 13:15	<i>Lunch</i>
13:15 – 13:30	Welcome: <i>Anna Stradner</i> (Lund University & LINXS)
13:30 – 14:00	OP1: <i>Robin Curtis</i> (Univ. Manchester) “What can be learned from dilute solutions measurements of protein-protein interactions”
14:00 – 14:30	OP2: <i>Peter Schurtenberger</i> (Lund University) “Towards an improved colloid model for antibodies in solution”
14:30 – 15:00	OP3: <i>Yun Liu</i> (NIST, USA) “Protein-protein interactions and high-concentration solution viscosity of a monoclonal antibody: the effect of temperature”
15:00 – 15:30	<i>Coffee break</i>
15:30 – 16:00	OP4: <i>Ralf Biehl</i> (FZ Jülich) “Antibody domain dynamics: Search and Attack motions?”
16:00 – 16:30	OP5: <i>Sergei Grudinin</i> (Univ. Grenoble) “Atomic-scale modeling of antibodies: linking SAXS experiments with molecular simulations”
16:30 – 17:00	OP6: <i>Emanuela Zaccarelli</i> (Roma La Sapienza) & <i>Fabrizio Camerin</i> (Lund University) “Updates on coarse-grained antibody modelling”
17:00 – 17:30	OP7: <i>Frank Delaglio</i> (NIST, USA) “Characterizing mAb Expression, Structure, and Excipient Interactions by NMR Spectroscopy Using Spectral Modeling, Chemometrics, and Machine Learning”
17:30 – 18:00	OP8: <i>Jure Cerar / Barbara Brannetti</i> (Novartis, Basel) “The journey of a biologics from research to development: in-silico perspective”
18:00 –	<i>Dinner</i>

Thursday morning, 26 September 2024

09:00 – 09:30	OP9: <i>Andreas Stadler</i> (FZ Jülich) “Multiscale dynamics of the NIST mAb studied by quasielastic neutron scattering”
09:30 – 10:00	OP10: <i>Margarita Kruteva</i> (FZ Jülich) “Diffusion NMR on monoclonal Antibodies”
10:00 – 10:30	OP11: <i>Marco Polimeni</i> (Lund University) “Modelling biomolecular interactions of mAb solutions”
10.30 – 11:00	<i>Coffee break</i>
11:00 – 11:10	Final Remarks Novartis: <i>Karoline Bechtold-Peters</i> (Novartis, Basel)
11:10 – 11:20	Final Remarks NIST: <i>Katharina Yandrofski</i> (NIST, USA)
11:20 – 12:15	Round table discussions: Lessons learned and loose ends (<i>Dieter Richter</i> (FZ Jülich) (chair); <i>Karoline Bechtold-Peters</i> (Novartis); <i>Katharina Yandrofski / Yun Liu</i> (NIST); <i>Mikael Lund</i> (Lund University))
12:15 – 13:00	<i>Lunch</i>