LINXS Antibody Final Meeting

Lund, 25/26 September 2024

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

Part 1 (open to public)

Wednesday afternoon, 25 September 2024

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

Thursday morning, 26 September 2024

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

Part 2 (not open to public – for mAb consortium only)

Thursday afternoon, 26 September 2024

14:00 – 18:00	Working on data and common publications; discussions on plans for future incl. potential grant applications
18:00 -	*Dinner*

Friday morning, 27 September 2024

09:00 – 12:00	Working on data and common publications; discussions on plans for future incl. potential grant applications
12:00 – 13:00	*Lunch*