

Protein Science Day 2019 – Measuring interactions: from molecules to cells

15th October 2019

Lund University, Sweden

Hosted by Molecular Recognition in Life (MoReLife), HALOS, ESS, and MAX IV

Co-sponsored by Dynamic Biosensors, Xtal and NanoTemper

Location: Belfragesalen, BMC

- 09.00 Welcome
- 09.10 "The Correlative Image Processing and Analysis platform", Markel Martinez Caranza
- 09.20 "Lund Institute for Neutron and X-ray Science (LINXS)", Jens Lagerstedt
- 09.30 "Hanseatic League of Sciences - HALOS", Kajsa Paulson
- 09.40 "In situ Dynamic Light Scattering: A time and sample efficient method to qualify samples for Crystallization, SAXS, NMR, SPR and Cryo-EM", Xtal-concept (Sponsor)
- 10.00 "The switchSENSE® biosensor platform for the analysis of molecular interactions", Dynamic Biosensors (Sponsor)

10.20-11.05 Coffee and tea +

Instruments demo (room 1 and 2) at D15 or

HALOS speed-dating (meet representatives from HALOS e.g., MAX IV, ESS, the Lund University HALOS reference group and others, present your science case and get suggestions on techniques and/or who to contact for applying synchrotron, neutron and FEL methods. Sign up for this part and we will match you with one or more HALOS representative for a 5-15 minutes discussion), Dora Jacobsson or Bengt Borgström at D15 or conference room at D14 or C14.

- 11.05 "The nitty-gritty of molecular interactions", Mikael Akke (Confirmed)
- 11.25 "XXX", Arwen Pearson, Hamburg (Confirmed)
- 11.45 "Challenges and opportunities in biologics", Marie Wahlgren (Confirmed)
- 12.05 "Let's hear from the young researchers" (postdocs/PhD students give short presentations)
"Modelling the core of lipid nanoparticles encapsulating messenger RNA", Giulio Tesei (Confirmed)
"XXX"
- 12.25 "Live cell interfaces with nanomaterials", Christelle Prinz (Confirmed)

12.45-13.30 Joint lunch + (Instrument try)

- 13.30 "Structural mass spectrometry", Sven Kjellström (confirmed)
- 13.50 "Resolving protein-nucleic acid interactions during viral capsid assembly using small-angle scattering and cryoEM", Ryan Oliver (Confirmed)
- 14.10 "Multi-molecular organisation and architecture: How cells encode information as they move", Vinay Swaminathan (Confirmed)
- 14.30 "Let's hear from the young researchers" (postdocs/PhD students give short presentations)

“How ligand densities and ligand mixtures can affect protein affinities within a cell contact”,
Victoria Junghans (Confirmed)

“*In vivo* engineering of human hematopoietic niches as advanced screening platform”, Ani
Grygorian (Confirmed)

“XXX

15.00-15.30 Coffee and tea + (*Instrument try*)

15.30 "XXX"

15.50 “A bacterial virulence factor that hijacks plasma proteins to modulate host cell function”, Oonagh
Shannon, Confirmed

16.20 Discussion in smaller groups

16.40 Sum up and concluding remarks

17.00 Tapas, drinks and mingle