Intensive Training Course:

SAXS and Computational Techniques to Study Intrinsically Disordered Proteins

EMBL, Hamburg, Germany, March 11 – 16, 2013

Program

Monday, 11th March

10:00 – 12:30	Arrival
12:30 – 14:30	Lunch
14:30 – 15:00	Welcome address
15:00 – 16:00	**Introduction to SAXS (*Dmitri Svergun*)**
16:00 – 16:30	Coffee break
16:30 – 17:30	**Sample preparation (*Rob Meijers*)**
17:30 – 18:30	**Introduction to P12 beamline (*Clément Blanchet*)**
18:30 – 20:00	BBQ

Tuesday, 12th March

09:00 – 10:30	**Initial data processing (*Al Kikhney*)**
10:30 – 11:00	Coffee break
11:00 – 12:30	***Ab initio* methods (*Daniel Franke*)**
12:30 – 14:00	Lunch
14:00 – 15:30	**Atomic structure based modeling (*Maxim Petoukhov*)**
15:30 – 19:30	Measurements at the Beamline/SAXS data analysis practical

Wednesday, 13th March

09:30 – 10:30	**Mixture analysis (*Peter Konarev*)**
10:30 – 11:00	Coffee break
11:00 – 12:30	**Ensemble Optimization Method (EOM) application (*Giancarlo Tria*)**
12:30 – 14:30	Lunch
14:30 – 17:30	Students' presentations:
14:30 – 14:50	*Biao Fu*
14:50 – 15:10	*Cesyen Cedeno*
15:10 – 15:30	*Eduardo Calcada*
15:30 – 15:50	*Erica Valentini*
15:50 – 16:10	*Sergio Gil Caballero*
16:10 – 16:30	*Magdalena Korsak*
16:30 – 16:50	*Mikhail Kachala*
16:50 – 17:10	*Pallab Bhowmick*
17:10 – 17:30	*Priyanka Joshi*
17:30 – 19:00	Supervisory board meeting

Thursday, 14th March

09:30 – 11:00	**Incorporation of SAXS measurements as structural restraints in molecular dynamics simulations (*Michele Vendruscolo*)**
11:00 – 11:30	Coffee break
11:30 – 12:30	Round table discussion with IDPbyNMR Marie Curie fellows
12:30 – 14:30	Lunch
14:30 – 16:00	Students' presentations:
14:30 – 14:50	*Jaka Kragelj*
14:50 – 15:10	*Tomas Hosek*
15:10 – 15:30	*Zsofia Solyom*
15:30 – 15:50	*Hadas Raveh-Amit*
17:30 – 19:30	Measurements at the Beamline/SAXS data analysis practical

Friday, 15th March

09:30 – 10:30	**NMR and small angle scattering - tools for the characterisation of highly flexible systems (*Martin Blackledge*)**
10:30 – 11:00	Coffee break
11:30 – 12:30	**Flexible-meccano: a tool for the generation of explicit ensemble descriptions of intrinsically disordered proteins and their associated experimental observables (*Martin Blackledge*)**
12:30 – 14:30	Lunch
14:30 – 19:00	SAXS data analysis practical

Saturday, 16th March

09:30 – 10:30	Discussion of obtained results
10:30 – 11:00	Coffee break
11:00 – 12:30	Discussion of obtained results
12:30 – 14:30	Lunch
14:30	Departure