



SEEING DYNAMIC PROTEINS IN ACTION: FROM DISORDER TO DISEASE

CLOTH HALL COURT, QUEBEC STREET, LEEDS LS1 2HA

MEETING SCHEDULE DAY 1

TIME	AGENDA POINT	DETAILS
09:30 - 10:15	Registration, coffee & networking	Opportunity to meet the Fidabio team & each other
10:15 - 10:20	Welcome remarks	Sheena Radford, University of Leeds
10:20 - 10:40	FIDA: Past, Present, & Future	Henrik Jensen, Co-founder & CSO, Fidabio
10:40 - 11:10	Keynote talk: "Detecting and Characterising Small-Molecule Binding to Disordered Proteins at Scale"	Gabi Heller, Bind Research and University College London
11:10 - 11:30	Short talk: "ALS Susceptibility Gene ARPP21 Assembles into Dynamic RNA Granules and Drives TDP-43 Proteinopathy"	Afra Aabdien, Kings College London and UK DRI
11:30 - 11:50	Short talk: "Harnessing dynamic opportunities in next generation therapies"	Olly Durrant, UCB
11:50 - 12:10	Flash talks: (1) "A new integrated approach for discovery of membrane protein structures using smFRET and cryo-EM reveals a new conformation of the BAM complex in lipid environments." (2) "The intrinsically disordered protein Tau transitions from a functional microtubule-stabilising monomer into pathological aggregates in tauopathies" (3) "Between order and disorder - A late embryonic abundant protein mediates cold adaptation in fruit fly" (4) "How cellular crowding shapes protein structural dynamics: insights from in-cell EPR spectroscopy"	Luke Johnson, University of Leeds Odie Oktaviandie, University of Cambridge Roman Tuma, University of South Bohemia Elisabetta Mileo, CNRS
12:10 - 13:00	Lunch & Networking	
13:00 - 13:20	Flash talks: (1) "Playing by the same rules? Physicochemical profiling is generalisable across antibody modalities" (2) "RNA binding and splicing regulation by Sam68 depends on its IDRs and phosphorylation" (3) "Engineering Synthetic Spacer Regions" (4) "Probing the conformational landscape of cardiac myosin in solution"	Leon Willis, University of Leeds Cyril Dominguez, University of Leicester Laura Gherman, University of York Monika Olejnik, University of Leeds
13:20 - 13:40	Short talk: "Can We Drug Dynamic Disorder?"	Richard Bayliss, University of Leeds
13:40 - 14:00	Short talk: "From Disorder to Delivery: The Molecular Mechanism of SurA in Outer Membrane Biogenesis"	Anton Calabrese, University of Leeds
14:00 - 15:00	Poster Sessions	
15:00 - 15:30	Afternoon Tea & Networking	
15:30 - 15:50	Short talk: "Evolution and function of intrinsically disordered regions (IDRs) in early secretory pathway"	Xiaohan Li, University of Dundee
15:50 - 16:20	Keynote talk: Oligomers, micelles and nanoclusters - the thermodynamics and kinetics of functional and disease-related protein assembly	Alex Buell, Technical University of Denmark
16:20 - 16:30	Final Comments	Iain Manfield, University of Leeds
16:30	Meeting ends (for those not registered to take part in the practical demonstrations)	