

2021 ISMB Postgraduate Symposium

The 2021 Postgraduate Symposium took place on Thursday 1st and Friday 2nd July 2021.

Thursday July 1st (1000-1500 hrs)

Session I, Chair: Finn Werner

1000 Welcome by Finn Werner

1005 Bianca Bana, 'Molecular mechanisms of protein export by the malaria parasite *Plasmodium falciparum*'

1025 Nathan Day, 'Cell competition: who makes the first move?'

1045 Joseph Bonello, 'Methods for Protein Function Prediction based on CATH'

1105-1120 Coffee break

Session II, Chair: Sanjib Bhakta

1120 Bess Yu, 'Regulation of metastasis suppressor NME1 by a key metabolic cofactor coenzyme A'

1140 Sophie Knott, 'Biophysical Characterisation of Protelomerases of Synthetic Biology Applications'

1200 Aaron Sweeney, 'A python framework for identifying protein/ligand interactions by geometry'

1220-1300 Lunch break

1300-1500 Poster session, in Gather Town app - link sent by email

Posters for 1300-1500, Friday July 1st

Mahnaz ABBASIAN, 'Identifying novel plastic degrading enzymes using computational methods'

Ibrahim ALDOBIYAN

George BATES, 'Biochemical investigation into the mechanism and regulation of CHC22 clathrin'

Aisha BEN-YOUNIS, 'Investigating conformational intermediates in the aggregation pathway of islet amyloid polypeptide (IAPP) using cyclic ion mobility-mass spectrometry (IM-MS)'

Rebecca BROOKER, 'Predicting and Analysing Protein-Protein Interaction Networks in Viruses'

Sophie BROWN, 'The effects of a penetrant mutation in Adult T-cell Leukaemia on the properties of Protein Kinase C b'

Alina CHRZASTEK, 'Novel approaches for antibody disulfide conjugation with thioesters'

Eva GARCÍA MORO, 'Study of influenza hemagglutinin fusion mechanism by electron cryotomography'

Callum HASTE, 'Structural Studies of Voltage-gated Sodium Channels as Targets for Drug Development'

Gabriel ING, 'Liquid-Phase Electron Microscopy in Molecular and Structural Biology'

Kamila KAMUDA, 'Changes in the molecular landscape of a cell in alpha-1-antitrypsin deficiency'

Yvette LEVRAY-SZABADOS, 'Low-complexity malaria sequences in protein targeting'

Jasmine MICHALOWSKA, 'Using deep learning and single cell tracking to understand competitive interactions in cell populations'

Niamh O'MALLEY, 'A Potassium Channel Causing Retinal Disease'

Eleni PLESSA, 'Investigating the mechanism of co-translational misfolding of alpha-1-antitrypsin'

Julanie STAPELBERG, 'How can we maximise recombinant protein expression within the Chlamydomonas chloroplast?'

Jennifer STIENS, 'Using gene co-expression network analysis to identify putative non-coding RNA candidates and their potential functions in the transcriptome of Mycobacterium tuberculosis'

Benjamin THAIR, 'Developing catechol-O-methyltransferase as a multi-functional molecular builder'

Abigail TURNER, 'Analysing the RNA binding domains of Syncrip by NMR'

Friday July 2nd (1000-1230 hrs)

Session III

1000 Welcome and introduction by Finn Werner

1005 Keynote lecture - Dina Grohmann, University of Regensburg, FRG
'Hold on (but not too tight) – lessons from the Argonaute protein family'

1045-1100 Coffee break

Session IV, Chair: Andrew Martin

1100 Lydia Mapstone, 'Genetic engineering and cultivation of Spirulina for future settlers on the Red Planet'

1120 Wael Muselmani, 'Probing sequence plasticity of Ung inhibitors via synthetic and structural biology'

1140 Chloe Pearce, 'Neutron and X-Ray Tomography as a Method of Non-Invasive Analysis of Archaeological Bone'

1200 Lily Goodyear Sait, 'Structural and Functional Studies of Cannabidiol Interactions with Voltage-gated Sodium Channels'

1225 Prize awards

1230 Wrap-up