

# Join the Astbury Conversation

23–24 March 2020

Monday 23 March - sponsored by Zeiss	
10:00	Arrival and registration: Parkinson Court
10:25	Welcome to the Astbury Conversation Sheena Radford, Director of the Astbury Centre
10:30	<b>Bridget Carragher (New York Structural Biology Center)</b> Challenges and opportunities for automated cryoEM
11:00	<b>Steven Fried (Johns Hopkins University)</b> Watching protein folding in vivo with mass spectrometry
11:30	<b>Georgina Benn (University College London)</b> Imagining the surface of live bacteria with nanometre resolution <i>Sponsored by BBS</i>
11:45	<b>Paolo Actis (University of Leeds)</b> Longitudinal studies of single living cells enabled by nanobiopsy
12:00	Flash presentations
12:10	<b>Ruth Chalmers-Redman (Zeiss)</b> A window into cellular molecular machinery with cryo light and electron microscopy
12:30	Lunch: Parkinson Court
13:45	<b>Wendy Barclay (Imperial College London)</b> Inside the cell with influenza virus
14:15	Flash presentations
14:30	<b>Alf Honigmann (Max Planck Institute of Molecular Cell Biology and Genetics)</b> Assembly, structure and function of the tight junction complex <i>Sponsored by Zeiss</i>
15:00	<b>Alex Borodavka (University of Cambridge)</b> Multiple phase transitions underpin the formation and maturation of viral factories in multi-segmented dsRNA viruses
15:15	<b>Laura Fitzgerald (Monash University)</b> Tracking the intracellular journey of macromolecules with fluorescent sensors
15:30	Photo Session: Outside the Great Hall
15:45	Coffee Break: Parkinson Court
16:15	<b>Marc Baldus (Utrecht University's Bijvoet Center for Biomolecular Research)</b> A magnetic resonance view of cellular life and disease
17:00	<b>Aleks Ponjavic (University of Leeds)</b> Visualising the nanoscale dynamics and organisation of T-cell membrane receptors
17:30	Flash presentations
17:45	<b>Inbal Riven (Weizmann Institute of Science)</b> Tunable microsecond dynamics of an allosteric switch regulate the activity of a disaggregation machine
18:15	<b>Richard Henderson (MRC Laboratory of Molecular Biology)</b> Recent innovations in cryoEM
18:45	Posters with pizza and beer (with exhibitors): The Refectory

Tuesday 24 March - sponsored by Thermo Fisher	
08:30	Arrival and coffee: UG09
09:00	<b>Bernd Bukau (Center for Molecular Biology of Heidelberg University)</b> Mechanisms of folding and assembly of newly synthesized proteins
09:30	<b>Chris Hill (University of Cambridge)</b> The molecular basis for association of Cardiovirus 2A protein with elongating ribosomes
10:00	<b>Natalia Baranova (Institute of Science and Technology Austria)</b> A tale of chase and capture: how FtsZ coordinates the movement of cell division proteins
10:15	<b>Hope Needs (University of Bristol)</b> Investigating Mitochondrial Protein Import in Mammalian Cells <i>Sponsored by BBS</i>
Coffee Break (with exhibitors): The Refectory	
11:00	<b>Danny Hatters (The University of Melbourne)</b> The impact of diverse triggers of proteostasis stress on proteome aggregation-state
11:30	<b>Alexander Rigort (Thermo Fisher)</b> State-of-the-art cryo-FIB sample processing for cryo-electron tomography
11:50	<b>Robin Bon (University of Leeds)</b> Structural insights into modulation of TRPC1/4/5 channels
Lunch (with exhibitors): The Refectory	
13:45	<b>Wanda Kukulski (MRC Laboratory of Molecular Biology)</b> Native membrane architectures studied by correlative microscopy and electron cryo tomography
14:15	<b>Rene Frank (University of Leeds)</b> The molecular infrastructure of glutamatergic synapses in the mammalian forebrain
14:30	<b>Danielle Paul (University of Bristol)</b> In situ cryo-electron tomography reveals filamentous actin within the microtubule lumen
14:45	<b>Anna Duncan (University of Oxford)</b> Interaction of monolysocardiolipin with mitochondrial membrane proteins
15:00	<b>Syma Khalid (University of Southampton)</b> Focussing the computational microscope on the cell envelope of gram negative bacteria
15:45	Closing remarks and prizes
15:55	Refreshments (exhibition will be open): Parkinson Court
16:30	Richard Henderson; Plenary Lecture: The Great Hall Zooming in on the molecules of life
17:30	Public engagement and wine reception (exhibition reopens): Parkinson Court
19:00	Close

Please note that timings and speakers are provisional and may be subject to change.