

## Schedule

### Day 1: The Organisation of Life

Tue 25<sup>th</sup> Nov - Room G07, Biological Sciences Building North, UNSW

9:00 – 10:00	<b>Archa Fox</b> <i>University of Western Australia</i>	<b>Keynote</b>	<b>Session 1</b> 9:00 - 11:00
10:00 – 10:20	<b>Yi Shen</b> <i>University of Sydney</i>	“Monitor and modulate the pathological aggregation of protein condensates”	
10:20 – 10:40	<b>Scott Berry</b> <i>University of New South Wales</i>	“Condensates, RNA metabolism”	
10:40 – 11:00	<b>Jai Tree</b> <i>University of New South Wales</i>	“The intrinsically disordered domain of the RNA degradosome recruits mRNA translation initiation regions”	
11:00 – 11:20	Break/Tea		
11:20 – 11:40	<b>Jesse Goyette</b> <i>University of New South Wales</i>	“Imaging linker for activated T cells (LAT) condensates in T cell membranes”	<b>Session 2</b> 11:20 – 12:40
11:40 – 12:00	<b>Martin Smith</b> <i>University of New South Wales</i>	“LncRNA and condensates”	
12:00 – 12:10	<b>Saba Altaf</b> <i>University of New South Wales</i>	“Uncharacterized lncRNA-decorated subcellular domains in brain”	
12:10 – 12:20	<b>Anton Maraldo</b> <i>University of New South Wales</i>	“Understanding the Molecular Grammar of Silk Proteins to Engineer Condensate Biomaterials”	
12:20 – 12:30	<b>Anika Moller</b> <i>University of New South Wales</i>	“The Impact of RNA Sequence and Macromolecular Crowding on Condensates formed with Cationic Peptides”	
12:30 – 12:40	<b>Adiba Anjum</b> <i>University of New South Wales</i>	“Photoswitchable Peptide-Mediated RNA Condensates for Targeted Drug Delivery”	
12:40 – 13:40	Lunch		
13:40 – 14:00	<b>Irina Voineagu</b> <i>University of New South Wales</i>	“The role of ZMYND8, a phase-separated transcriptional regulator, in brain development”	<b>Session 3</b> 13:40 – 15:00
14:00 – 14:20	<b>Marco Morsch</b> <i>Macquarie University</i>	“In vivo insights into TDP-43 condensates - from RNA granules to pathology”	
14:20 – 14:40	<b>Dezerae Cox</b> <i>University of Wollongong</i>	“Profiling TDP-43 pathology particle by particle”	
14:40 – 15:00	<b>Emma Siereck</b> <i>University of New South Wales</i>	“Protein Aggregation”	
15:00 – 15:30	Afternoon Tea		
15:30– 16:30	<b>Tetsuro Hirose</b> <i>University of Osaka</i>	<b>Keynote</b>	<b>Session 4</b> 15:30 – 17:00
16:30 – 17:00	Panel Discussion		
17:00 – 18:30	Drinks and Canapes		

**Day 2: Shaping the Unstructured**  
**Wed 26<sup>th</sup> Nov - Messel Lecture Theatre, Sydney Nanoscience Hub, USYD**

9:00 – 9:30	<b>Tuomas P J Knowles</b> <i>University of Cambridge</i>	<b>Keynote</b> “Liquid-Liquid Interfaces for Emerging Biotechnologies”	<b>Session 1</b> 9:00 – 10:30
9:30 – 9:50	<b>Pall Thordarson</b> <i>University of New South Wales</i>	“The importance of specific nucleotide - amino acid interactions in RNA-peptide interactions”	
9:50 – 10:10	<b>Megan Lord</b> <i>University of New South Wales</i>	“Towards improved drug delivery via the bloodstream”	
10:10 – 10:30	<b>Margaret Sunde</b> <i>University of Sydney</i>	“Functional amyloid fibrils and condensates”	
10:30 – 11:00	Break/Tea		
11:00 – 11:20	<b>David Jacques</b> <i>University of New South Wales</i>	“How HIV enters the nuclear pore”	<b>Session 2</b> 11:00 – 12:50
11:20 – 11:40	<b>Richard Morris</b> <i>University of New South Wales</i>	“Why the HIV capsid is shaped the way it is”	
11:40 – 12:00	<b>Daniele Vigolo</b> <i>University of Sydney</i>	“Label-Free Optical Rheology of Condensates”	
12:00 – 12:20	<b>Anna Wang</b> <i>University of New South Wales</i>	“Holographic imaging can simultaneously map viscosity and measure the refractive index of droplets”	
12:20 – 12:50	<b>Poster Flash Talks</b>		
12:50 – 14:30	Lunch and Poster Session		
14:30 – 14:50	<b>Danny Hatters</b> <i>University of Melbourne</i>	“Understanding how proteomes co-aggregate with protein deposits”	<b>Session 3</b> 14:30 – 16:20
14:50 – 15:10	<b>Luke McAlary</b> <i>University of Wollongong</i>	“Molecular Chaperones Modulate TDP-43 Condensation, Aggregation, and Prion-like Seeding”	
15:10 – 15:30	<b>Adam Walker</b> <i>University of Sydney</i>	“TDP-43 co-aggregating proteins and impacts of post-translational modifications”	
15:30– 15:50	<b>Nils Walter</b> <i>University of Michigan</i>	“Life in Flux: Dynamic RNA/Protein Granule Assembly Shapes Biomolecular and Cellular Function”	
16:00 – 16:20	Conclusion/Poster Prize/Gifts		
16:30 – 17:30	After conference cocktail party		