

## 43rd Lorne Conference on Protein Structure and Function 2018 –Draft Program

Sun 4 <sup>th</sup> Feb		
2:00 pm	Registration	
3:30 pm	Welcome Address	Jacqui Matthews
<b>4-6 pm</b>	<b>Session 1</b>	<b><i>Regulation and signalling</i></b>
	Chairpersons	Danny Hatters and Natalie Borg
30	Cynthia Wolberger (Johns Hopkins University, Baltimore)	Histone H2B ubiquitination and transcription
30	Carrie Partch (University of California, Santa Cruz)	Dissecting the molecular basis of circadian timekeeping
30	Mads Daugaard (University of British Columbia)	Using recombinant malaria proteins to detect and target human cancers
6-6:30	break	
<b>6:30 pm</b>	<b>Session 2</b>	<b><i>Leach Lecture</i></b>
	Chair	Jacqui Matthews
50 min	TBA	
7:30 pm	Mixer Light dinner Trade Display	

Mon 5 <sup>th</sup> Feb		
7:00 am	Breakfast	
<b>8:30 am</b>	<b>Session 3</b>	<b><i>Protein assemblies #1</i></b>
	Chairpersons:	Charlie Bond and TBC
30	Rachel Green (Johns Hopkins)	Ribosome rescue and homeostasis
15	Po-chia Chen (EMBL Heidelberg)	Using small-angle X-ray scattering to screen for and classify biomolecular interactions
15	James Brown (UNSW)	Investigating the effects of Lewy body components on the proliferation of $\alpha$ -synuclein aggregates
30	Harald Janovjak (Monash University) ***EMBL Australia Keynote lecture	Engineered receptors with a light switch
10:30 am	Morning Tea/Coffee Break	
<b>11:00 am</b>	<b>Session 4</b>	<b><i>Folding and quality control</i></b>
	Chairpersons:	Diana Stojanovski and Ashley Buckle
30	Liz Miller (MRC-LMB)	Folding and quality control of membrane proteins (ABC transporter)

15	Dezerae Cox (University of Melbourne)	Understanding how proteome foldedness changes under proteostasis stress
15	William Balch (Scripps, La Jolla)	Exploring proteostasis through variation spatial states
30	Jason Gestwicki (University of California, San Francisco) ***Protein Society Keynote speaker	Treating protein conformation diseases with small molecules
1:00 pm	Lunch	
4-6:00 pm	Session 5	Poster Session A including refreshments (Note Odd / Even rule)
6:00 pm	Dinner	
7.45 pm	Session 6	<i>Special Evening lecture</i>
	Chairperson:	Michael Landsberg (TBC)
50	Richard Henderson (MRC -LMB)	The increasing power of cryoEM for macromolecular structure determination
9 pm	Session 7	Poster Session B - Including Happy Hour & Trade Display

<b>Tues 6<sup>th</sup> Feb</b>		
7:00 am	Breakfast	
8.30 am	Session 8	<i>Membrane proteins</i>
	Chairpersons:	Megan Maher and Sheena McGowan
30	Richard Neutze (University of Gothenburg, Sweden)	Time-resolved serial femtosecond crystallography studies at an X-ray free electron laser reveals structural changes in bacteriorhodopsin
15	Anna Roujeinikova (Monash University)	Specific and promiscuous ligand recognition by chemotaxis receptors.
15	Stephanie Gras (Monash University)	T cell receptors have some more tricks up their sleeves
15	Brett Collins (University of Queensland)	The architecture of the membrane associated retromer-sorting nexin complex revealed by cryo-electron tomography
15	Felix Deuss (Monash University)	Recognition of Necl5 by the Natural Killer Cell Receptor CD96
10:30 am	Tea and Coffee Break	
11:00 am	Session 9	<i>Dynamics and movement</i>
	Chairpersons:	Bostjan Kobe and Paul Gooley
30	Nieng Yan (Tsinghua University, Beijing) *** Georgina Sweet Lecture	A molecular movie of the alternating access cycle of GLUTs
15	Till Bocking (UNSW)	Observing the effect of host cell proteins on viral capsid disassembly at the single-molecule level

15	Nyssa Drinkwater (Monash University)	Dynamics, allostery, and catalysis: the mechanism of action of the hexameric M17 Aminopeptidase from <i>P. falciparum</i>
15	Christopher Overall (University of British Columbia)	Proteomic discovery of a proteolytic flagellin family in diverse bacterial phyla that assembles enzymatically active flagella
15	Elizabeth Hinde (University of Melbourne)	Tracking oligomeric transcription factor dynamics by pair correlation of molecular brightness (pCOMB)
1:10 pm	Lunch	Student lunch
4 – 6:00pm	Session 10	Poster Session C including refreshments (Note Odd / Even Rules)
6:00 pm	Dinner (own arrangements)	
7.45 pm	Session 11	<i>Robin Anders Young Investigators Award session</i>
	Chairpersons:	Melissa Call and James Murphy
15	TBA	
15	TBA	
15	TBA	
15	TBA	
9.00 pm	Session 12	Poster Session D - Including Happy Hour & Trade Display

<b>Wed 7<sup>th</sup> Feb</b>		
7:00 am	Breakfast	
8.30 am	Session 13	<i>Engineering and design</i>
	Chairpersons:	Juliet Gerrard and Colin Jackson
30	Andreas Plueckthun (University of Zurich) ***EMBO Keynote Lecture	Combinatorial and evolutionary protein engineering
15	Kirill Alexandrov (University of Queensland)	Connecting biochemistry and electronics with synthetic protein switches
15	***YIA awardee TBA	
30	Sarel Fleishman (Weizmann Institute of Science)	Computational design of antibodies, enzymes, and vaccine immunogens
10:30 am	Tea and Coffee Break	
11:00 am	Session 14	<i>Lightning talks</i>
	Chairpersons:	Jackie Wilce and TBC
10	John Scott (St Vincent's Institute)	Metabolic Activation of CaMKK2 and AMPK by Acyl-Coenzyme-A Intermediates

10	Jason Low (University of Sydney)	Architecture of the Nucleosome Remodeling and Deacetylase (NuRD) complex deduced from integrative structural biology
10	Crystall Swarbrick (Duke-NUS)	Insights into specific RNA recognition by dengue virus NS3 helicase
10	Urmi Dhagat (St Vincent's Institute)	Discovering the molecular basis for differential activation of the interleukin-3 receptor
10	Michael Jarva (La Trobe University)	Structural evidence for an antimicrobial peptide in a carpet-like oligomeric membrane disruption complex through the X-ray structure of a defensin bound to phosphatidic acid
10	Mark White (University of Oxford)	Profiling the kinetic behaviour, structural scaffolds and oxygen sensing properties of the Plant Cysteine Oxidases for improved crop flood tolerance
10	Saveez Saffarian (University of Utah)	Run HIV Run, the protease is coming!
10	Matthew Johnson (Australian National University)	Molecular basis for the folding of $\beta$ -helical autotransporter passenger domains
<b>1 pm</b>	<b>Lunch</b>	
<b>1:15-2:15 pm</b>		Synchrotron Users Group Meeting
<b>4:00 pm</b>	<b>Session 15</b>	<b><i>Protein assemblies #2</i></b>
	Chairpersons:	Jon Oakhill and TBC
30	Tanja Mittag (St Jude's Children's Research Hospital)	Compartmentalization through liquid-liquid phase separation: functional benefits and disease risk
15	Joel Selkrig (EMBL, Heidelberg)	Spatiotemporal proteomics reveals a novel role for lysosomal proteases during Salmonella induced host cell death
15	Onisha Patel (WEHI)	Assembly and function of two interacting oncogenic pseudokinase scaffolds
30	Natalia Jura (University of California, San Francisco)	Emerging roles of multimeric kinase and phosphatase assemblies in signal transduction
<b>~6:00 pm (no break)</b>	Poster prizes and Closing	<b>Jacqui Matthews &amp; Danny Hatters</b>
<b>7:30 pm</b>	Conference Dinner	
<b>9:pm</b>	Supper Party	

### Thurs 8<sup>th</sup> Feb

~9-9.30 am	Bus Departures
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Summary – Speakers Final Program (excluding Leach Lecturer & Robin Anders Awardees)	Male	Female	Unclassified	Percent Female
International - Invited	7	7		
Abstracts	18	10		
Total				
Chairs				
Chairs				
Delegates				