

42st Lorne Conference on Protein Structure and Function 2017 –Draft Program – (updated Feb01-2017)

Sun 5 <sup>th</sup> Feb		
2:00	Registration	
3:45	Welcome Address	Jacqui Matthews
<b>4-6 pm</b>	<b>Session 1</b>	<b><i>Synthesis and folding</i></b>
	Chairpersons	Danny Hatters & Sheena McGowan
30	Jane Clarke (U Cambridge)	<i>Protein Folding On and Off the Ribosome</i>
15	Margie Sunde (U Sydney)	<i>Viral proteins form decoy amyloids to inhibit necroptosis and host cell death</i>
15	Heath Ecroyd (U Wollongong)	<i>Good things in small packages: The molecular chaperone action of the small heat shock proteins</i>
30	Marina Rodnina (Max Planck For Biophys Chem) *** EMBO Keynote Lecturer	<i>Protein elongation and folding on the ribosome</i>
<b>6-6:30</b>	break	
<b>6:30 pm</b>	<b>Session 2</b>	<b><i>Leach Lecture</i></b>
	Chair	Jacqui Matthews
50 min	Marilyn Anderson	Evolution, function and applications of plant defensins
7:30 pm	Mixer Light dinner Trade Display	

Mon 6 <sup>th</sup> Feb		
7:00 am	Breakfast	
<b>8:30 am</b>	<b>Session 3</b>	<b><i>RNA</i></b>
	Chairpersons:	Jackie Wilce & Alistair Stewart
30	Hye Yoon Park (Seoul National U)	<i>Dynamics of endogenous mRNA and Protein interaction in live neurons</i>
15	Fionna Loughlin (Monash U)	<i>Disentangling the many RNA interactions of FUS: an hnRNP protein misregulated in neurodegenerative diseases</i>
15	Vihandha Wickramasinghe (Peter Mac)	<i>Impact of alternative splicing on the human proteome</i>
15	Mary Christie (Victor Chang)	<i>Towards a molecular understanding of mRNA degradation</i>
10:30 am	Morning Tea/Coffee Break	
<b>11:00 am</b>	<b>Session 4</b>	<b><i>Movement and evolution</i></b>
	Chairpersons:	Megan Maher & Antoine van Oijen
30	Stephen Ludtke (Baylor College Med)	<i>Beyond Simple Structure: CryoEM, from Cells to Dynamic Molecules</i>

15	Joshua Mylne (U Western Aus)	<i>Buried treasure: the de novo evolutionary birth of proteins from within a host</i>
15	Paul Curmi (UNSW)	<i>Evolution of light harvesting proteins: Single residue insertion switches the quaternary structure and exciton states in cryptophyte phycobiliproteins</i>
15	Lisa Cabrita (U College London)	<i>Structural studies of co-translational protein folding on the ribosome</i>
<b>1:00 pm</b>	<b>Lunch</b>	
<b>4-6:00 pm</b>	<b>Session 5</b>	<b>Poster Session A including refreshments (Note Odd / Even rule)</b>
<b>6:00 pm</b>	<b>Dinner</b>	
<b>7.45 pm</b>	<b>Session 6</b>	<b>Special Evening lecture</b>
	Chairperson:	Leann Tilley
50	Carol Robinson (U Oxford) *** <i>Georgina Sweet Keynote lecturer</i>	<i>Mass spectrometry - from rare gases to rotary motors</i>
<b>9 pm</b>	<b>Session 7</b>	<b>Poster Session B - Including Happy Hour &amp; Trade Display</b>

<b>Tues 7<sup>th</sup> Feb</b>		
<b>7:00 am</b>	<b>Breakfast</b>	
<b>8.30 am</b>	<b>Session 8</b>	<b>Chaperones and molecular machines</b>
	Chairpersons:	Kaye Truscott & Mark Howard
30	Babis Kalodimos (U Minnesota)	<i>Molecular chaperones in action</i>
15	David Jacques (U Cambridge)	<i>Structural Studies Reveal New Roles for the HIV-1 Capsid</i>
15	Andrew Robinson (U Wollongong)	<i>Single-molecule imaging of translesion DNA polymerases in E. coli</i>
30	Judith Frydman (Stanford U) *** <i>Protein Society Speaker</i>	<i>Tric Chaperones and folding</i>
<b>10:30 am</b>	<b>Tea and Coffee Break</b>	
<b>11:00 am</b>	<b>Session 9</b>	<b>Emerging technology</b>
	Chairpersons:	Craig Morton & Anna Sokolova
30	Kevin Gardner (City U New York)	<i>Environmentally-regulated protein/protein interactions: Nature's switches, scientists' tools</i>
15	Senthil Arumugam (UNSW)	<i>Whole cell imaging and analysis of all endocytic events at single molecule resolution</i>
15	Toby Passioura (U Tokyo)	<i>Drug-like macrocyclic peptides comprised of diverse non-canonical amino acids assembled through genetic code reprogramming</i>
30	Lucia Banci (U Florence)	<i>Cellular Structural Biology: from protein structures to functional processes in a cellular context.</i>
<b>1:10 pm</b>	<b>Lunch</b>	<b>Student lunch</b>

<b>4 – 6:00pm</b>	<b>Session 10</b>	<b>Poster Session C including refreshments (Note Odd / Even Rules)</b>
<b>6:00 pm</b>	<b>Dinner (own arrangements)</b>	
<b>7.45 pm</b>	<b>Session 11</b>	<b><i>Robin Anders Young Investigators Award session</i></b>
	Chairpersons:	Diana Stojanovski & Robin Anders
15	David Ascher	Mutational Analysis Pipeline: Unravelling the molecular mechanisms behind mutations and their link to phenotypes using graph-based signatures
15	Sophie Broughton	Embrace of the interleukin-3 'superkine' – the molecular basis for enhanced activity
15	Kelan Chen	Structural and Functional Insight into the Epigenetic Regulator Smchd1
15	Rajesh Ghai	Commander Complex: a new endosomal protein sorting platform
<b>9.00 pm</b>	<b>Session12</b>	<b>Poster Session D - Including Happy Hour &amp; Trade Display</b>

<b>Wed 8<sup>th</sup> Feb</b>		
<b>7:00 am</b>	<b>Breakfast</b>	
<b>8.30 am</b>	<b>Session 13</b>	<b><i>At the membrane</i></b>
	Chairpersons:	Peter Czabotar & Anthony Duff
30	Doreen Mathies (NIH Center for Cancer Res)	<i>Single-Particle Cryo-EM of 200 kDa magnesium channel reveals large conformational changes upon gating</i>
15	Shu Sin Chng (National U Singapore)	<i>Defining key roles for auxiliary proteins in an ABC transporter that maintains bacterial outer membrane lipid asymmetry</i>
15	Paul Gooley (U Melbourne)	<i>Defining a second binding site for relaxin on the ectodomain of RXFP1 and its role in activation</i>
30	Gerhard Wagner (Harvard U)	<i>Engineering nano discs for membrane protein studies</i>
<b>10:30 am</b>	<b>Tea and Coffee Break</b>	
<b>11:00 am</b>	<b>Session 14</b>	<b><i>Lightning talks</i></b>
	Chairpersons:	Juliet Gerrard & Colin Jackson
10	Weixiao Wahlgren (U Gothenburg)	<i>Crystal structure of a sialic acid transporter</i>
10	Marie Bongiovanni (U Cambridge)	<i>Surface hydrophobicity mapping of individual amyloid-like protein aggregates</i>
10	Adeline Robin (WEHI)	<i>Structural insights into the direct activation of the pro-apoptotic protein Bax by an antibody</i>
10	Michael Landsberg (U Queensland)	<i>Structural insights into the mechanism of host cell recognition by a type II bacterial toxin complex</i>
10	Roland Gamsjaeger (U Western Sydney)	<i>A structural analysis of DNA binding by hSSB1 (NABP2/OBFC2B) in solution</i>
10	Sarah Atkinson (Monash U)	<i>Hendra virus V protein binds host nuclear transporters</i>
10	Rhys Grinter (Monash U)	<i>The structural basis of bacterial iron piracy from host ferredoxin</i>

10	Jason Paxman (La Trobe Uni)	<i>New insights into the structure and mechanism of action for the large family of autotransporter virulence factors</i>
1 pm	Lunch	
1:15-2:15 pm		Synchrotron Users Group Meeting
4:00 pm	Session 15	<b>Dynamics and plasticity</b>
	Chairpersons:	Charlie Bond & Melissa Call
30	Rohit Pappu (Washington U St. Louis)	<i>Phase Transitions of Intrinsically Disordered Proteins</i>
30	David Drew (Stockholm U) *** EMBO Young Investigator Lecture	<i>Establishing the Molecular Mechanisms of Solute-Carrier (SLC) transporters: from snapshots to movies</i>
30	James Fraser (U Calif San Francisco)	<i>Some like it hot: Protein Ensembles from X-ray Crystallography</i>
~6:00 pm (no break)	Poster prizes and Closing	<b>Jacqui Matthews &amp; Danny Hatters</b>
7:30 pm	Conference Dinner	
9:pm	Supper Party	

#### Thurs 9<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	0	50%
Abstracts	14	8	0	36% (total submitted abstracts 33%)
Total	21	15	0	42%
<b>Chairs</b>				
Chairs	10	10	0	50%
Delegates	TBC	TBC	TBC	TBC