

## 37th Lorne Conference on Protein Structure and Function

<i>Sunday 5<sup>th</sup> February</i>		
2.00 pm	Registration	
3.45 pm	Welcome Address	Michael Parker, President of Conference Organising Committee
4:00 pm	<b>Session One: Folding One</b>	
	Chairpersons:	Jacqui Matthews and Paul Curmi.
30 min	David Eisenberg	Atomic structures of a toxic amyloid small oligomer and amyloid fibers
20 min	Andy Hill	High resolution structural analysis of exosomes using cryo-electron tomography reveals distinct features correlating with prion infectivity
30 min	Jane Clarke	Using single molecule techniques to investigate rare misfolding events in multidomain proteins
30 min	Lila Gierasch	Moving the protein folding problem from the test tube to the cell
6.15 pm	<b>Welcome BBQ</b> <i>Proudly sponsored by ANSTO</i>	
8:00 pm	<b>Session Two: Leach Lecture</b>	
	Chairperson:	Michael Parker (President)
50 min	Speaker to be announced	
9.00 pm	Trade Display / Mixer	
<i>Monday 6<sup>th</sup> February</i>		
8:00 am	Barista-style coffee served in the foyer <i>Proudly sponsored by Life Research</i>	
8:30 am	<b>Session Three: Solutions for challenging protein solutions</b>	
	Chairpersons:	Ray Norton and David Gell
30 min	Ad Bax	Proteins and their interaction with lipids, as viewed by modern NMR
15 min	Yanling Lu	Structural flexibility of human cardiac myosin binding protein c facilitates its switch between myosin and actin
20 min	Gottfried Otting	Lanthanides as a tool in structural biology by NMR and EPR
30 min	Chuck Sanders	Structural basis for modulation of potassium channel function by the KCNE proteins
10:30 am	Tea / Coffee Break	
11:00 am	<b>Session Four: Peptides!</b>	
	Chairpersons:	Phil Thompson and Jackie Wilce
30 min	Samuel Gellman	Peptide and protein mimicry with foldamers
20 min	Mark Hulett	NaD1 defensin induces tumour cell cytotoxicity by forming a novel phospholipid recognition complex
20 min	Paul Alewood	Folding cysteine-rich miniproteins
20 min	David Fairlie	Pathway dependent antagonism of protease activated receptor 2
1:00 pm	Lunch / Free Afternoon	
1:30 pm	<b>Bio-Rad Laboratories Workshop: New Technologies in Bio-Rad's V3 Western Workflow bring Speed and Confidence to Western Blotting</b>	
4:00 - 6:00 pm	<b>Session Five: Poster Session A</b> <i>Proudly sponsored by the Australian Synchrotron</i>	
6:00 pm	Dinner (Own Arrangements)	

7.45 pm	<b>Session Six: Hot Topics!</b>	
	Chairpersons:	Sheena McGowan and Juliet Gerrard
15 min	Oliver Rackham	A universal code for RNA-protein recognition
10 min	Julian Vivian	Killer cell immunoglobulin-like receptor 3DL1-mediated recognition of human leukocyte antigen B
10 min	Shaun Lott	The structure of a secreted insecticidal toxin complex containing chitinases.
10 min	Catherine Latham	The COPII coat requires Sec13 to form vesicles from an asymmetrical ER membrane
<b>9.00</b>	<b>Session Seven: Poster Session B including Happy Hour &amp; Trade Display</b>	
<i>Tuesday 7<sup>th</sup> February</i>		
7:15 am	<b>ATA Scientific Workshop: Multi-Parametric Surface Plasmon Resonance - The new generation of SPR</b>	
8.30 am	<b>Session Eight: Phosphorylation</b>	
	Chairpersons:	Tony Tiganis and Rick Pearson
30 min	Nick Tonks	Protein tyrosine phosphatases: specific regulators of signal transduction
20 min	Nikki Verrills	Targeting a tumour suppressor, protein phosphatase 2A (PP2A) for leukemia therapy
30 min	Tony Pawson	The dynamic control of phosphorylation-dependent signalling by scaffold proteins
30 min	Shirish Shenolikar	Targeting protein synthesis to promote cell survival : implications for insulin synthesis and diabetes
10:30 am	<b>Tea / Coffee Break</b>	
11:00 am	<b>Session Nine: Tracks and Motors</b>	
	Chairpersons:	Mike Ryan and Bob Graham
30 min	Anne Houdusse	How myosin motors power cellular functions: new insights from coupling structural and functional studies
15 min	Paul Curmi	The tumbleweed: towards a synthetic protein motor.
20 min	Jake Baum	Regulating actin filament dynamics in motile cells; insights from the malaria parasite
30 min	Andrew Carter	The structure of the dynein motor domain
1:00 pm	<b>Lunch / Free Afternoon</b>	
1:00 pm	<b>Student Lunch (ticketed function)</b> <i>Proudly sponsored by the Australian Synchrotron</i>	
2:00 pm	<b>Twenty20 Cricket Match</b>	
4:00 - 6:00pm	<b>Session Ten: Poster Session C</b> <i>Proudly sponsored by the Australian Synchrotron</i>	
6:00 pm	<b>Young Investigator Mixer (Ticketed Function)</b>	
6:00 pm	<b>Dinner (own arrangements)</b>	
7.45 pm	<b>Session Eleven: Young Investigators Award Session</b> <i>Proudly sponsored by Shimadzu Scientific</i>	
	Chairpersons:	Lawrence Lee and Erinna Lee
15 min	Awardee Name to be announced	
15 min	Awardee Name to be announced	
15 min	Awardee Name to be announced	
15 min	Awardee Name to be announced	
<b>9.00</b>	<b>Session Twelve: Poster Session D including Happy Hour &amp; Trade Display</b>	

**Wednesday 8<sup>th</sup> February**

<b>8.30 am</b>	<b>Session Thirteen: Emerging Technologies</b>	
	Chairpersons:	James Whisstock and Daniel Christ
30 min	Stephen Pak	Screening for compounds that enhance clearance of misfolded proteins
20 min	Bostjan Kobe	TLR adaptor protein MAL-function and structure
15 min	Roger Daly	Identification of tyrosine kinase signalling networks in human cancer through mass spectrometry-based phosphoproteomic profiling
30 min	Carol Robinson	The role of lipid and drug binding on the structures of intact membrane protein complexes
<b>10:30 am</b>	<b>Tea / Coffee Break</b>	
<b>11:00 am</b>	<b>Session Fourteen: Pathogenesis</b>	
	Chairpersons:	Heidi Drummer and Peter Lewis
30 min	Mike Summers (US Protein Society Speaker)	New insights into the mechanism of HIV-1 genome packaging and assembly
15 min	Anna Roujeinikova	Helicobacter pylori flagellar motor: structural insight into the mechanism of stator assembly and activation.
15 min	Michael Johnson	Structure-based development of papain-like protease inhibitors as SARS antiviral therapeutics
30 min	Rick Lewis	The missing link in bacterial cell wall biosynthesis revealed by X-ray crystallography?
<b>1.00 pm</b>	<b>Lunch / Free Afternoon</b>	
<b>1:30 pm</b>	<b>Synchrotron Users Group Meeting</b>	
	Tom Caradoc-Davies - Structural Biology at the Australian Synchrotron	
<b>3:30 pm</b>	<b>Tea / Coffee Break</b>	
<b>4:00 pm</b>	<b>Session Fifteen: Folding Too</b>	
	Chairpersons:	Andrew Aquilina and Danny Hatters
30 min	Sophie Jackson	Untangling the structure, function and folding of knotted proteins.
15 min	John Carver	Amyloid fibrils and molecular chaperones
15 min	Young Investigator Award Speaker to be announced	Protein aggregates - the end of the road or the road to the end?
30 min	Sheena Radford	Molecular insights into protein-protein interactions in amyloid formation
<b>6:15 - 6.30 pm</b>	<b>Poster Prize Presentations</b>	
	<i>Proudly sponsored by the Australian Synchrotron</i>	
<b>7:30 pm</b>	<b>Conference Dinner</b>	
<b>9:30 pm</b>	<b>Conference Social</b>	
<b>Thursday 9<sup>th</sup> February</b>		
<b>9:00 am</b>	<b>Bus Departures</b>	