

East Coast Protein Meeting 2015 Program

Friday 24th July

15:00 – 17:15	Registration
17:15 – 18:15	Plenary Session 1 Prof. Juliet Gerrard (University of Auckland) <i>Chair: Róisín McMahon</i>
	Session 1: Protein-ligand interactions <i>Chair: Andrew Walker</i>
18:15 – 18:35	Dorothy Wai The Yin and Yang of nucleic acid binding by classical zinc fingers
18:35 – 18:55	Amy Mcgrath DNA sliding clamps: An emerging target for antibacterials
18:55 – 19:10	Tony Ngo The search for surrogate ligands targeting orphan receptor, GPR37L1, using a binding pocket similarity approach
19:10 – 19:25	Ingrid Macindoe LDB1 Self-association
19:30 – 21:30	Dinner & Drinks

Saturday 25th July

08:00 – 08:30	Arrival Tea & Coffee
08:30 – 08:45	Sponsor talk- Merck Millipore Dale Pavlovski
	Session 2: Protein complexes & oligomers <i>Chair: Mary Christie</i>
08:45 – 09:05	Mario Garcia New crystal structures for the catalytic subunit of <i>Arabidopsis thaliana</i> acetohydroxyacid synthase reveal the binding site for two commercial herbicides
09:05 – 09:25	Lachlan Casey The solution structure of SR33 challenges paradigms for coiled-coil dimerization in NB-LRR proteins
09:25 – 09:40	Mathew Horrocks The development of single-molecule techniques for studying the aggregates of proteins associated with Parkinson's and Alzheimer's disease
09:40 – 09:55	Alastair Stewart Structural and functional insights into the evolution and stress adaptation of type II chaperonins
09:55 – 10:10	Sarah Piper Characterisation of the <i>Yersinia entomophaga</i> ABC toxin complex: A novel host specific toxin delivery system
10:15 – 10:45	Morning Tea

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Saturday 25th July (cont'd)

10:45 – 11:15	Special session: Statistics for bioscientists Prof. Joel Mackay (University of Sydney)
	Session 3: Protein-protein interactions <i>Chair: Alastair Stewart</i>
11:15 – 11:35	Evelyne Deplazes Limitations of restraint-driven docking of flexible peptides to ion channels – Lessons learnt from the complex formed by the spider venom PCTX1 and the acid sensing ion channel 1
11:35 – 11:55	Neil Robertson The biophysical basis of an aggregation-prone LIM code revealed by simple FRET-based techniques
11:55 – 12:10	Dezerae Cox To bind, or not to bind: The small heat shock proteins interact with various species formed during the aggregation of α -synuclein
12:10 – 12:25	Rebecca San Gil A new method to study ancient proteins: Re-evaluating the chaperone efficacy of heat shock proteins using bicistronic vectors
12:30 – 14:30	Lunch
14:00 – 14:30	MX beamline update - what is going on at the Australian Synchrotron? Daniel Eriksson
	Session 4: Protein structure and function <i>Chair: Megan Cross</i>
14:30 – 14:50	Thomas Clairfeuille Structural basis of protein cargo transport by Sorting Nexin 27 and the retromer complex sorting machinery
14:50 – 15:10	Ross Blundell Adenylosuccinate synthetase as an antifungal drug target
15:10 – 15:25	Amy Wyatt Characterisation of a bleach-activated human chaperone
15:25 – 15:40	Shane Horsefield Structural basis of axonal sarm-poptosis and TRIF inhibition
15:40 – 15:55	Janina Steinbeck A molecular resolution 3D atlas of the photosynthetic machinery of green algae cells
16:00 – 16:30	Afternoon Tea
16:40 – 18:30	Poster session
18:45 – 19:45	Plenary Session 2: Career Advice Forum Prof. Jenny Martin (University of Queensland) <i>Followed by a panel discussion with Q&A</i> <i>Chair: Evelyne Deplazes</i>
20:00	Conference dinner & drinks
22:00 – 00:00	Conference social party

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Sunday 26th July

08:00 – 09:00	Arrival Tea & Coffee
09:00 – 10:00	Plenary Session 3 Dr. Mark Kvansakul (La Trobe University) <i>Chair: Antoine van Oijen</i>
10:00 – 10:30	Morning Tea
	Session 5: Cell surface and signaling proteins <i>Chair: Matthew Horrocks</i>
10:30 – 10:50	Thomas Ve Characterisation of higher-order assembly signaling in Toll-like receptor pathways
10:50 – 11:05	Lin Luo A novel non TIR-domain-containing adaptor in Toll-like receptor signaling and inflammation
11:05 – 11:20	Alexandra Schumann-Gillett Structural characterisation of a putative intermediate in E-cadherin <i>trans</i> dimer formation
11:20 – 11:30	Group photo
	Session 6: Therapeutics and drug development <i>Chair: Harshad Ghodke</i>
11:35 – 11:55	Wai Soon Eng First crystal structures of <i>Mycobacterium tuberculosis</i> 6-oxopurine phosphoribosyltransferase in complex with acyclic nucleoside phosphonates whose prodrugs have antituberculosis activity
11:55 – 12:10	Philippa Stokes Developing peptides to specifically target the breast cancer oncogene LMO4
12:10 – 12:25	Mary Christie Structural characterisation of stabilised human antibody therapeutics
12:25 – 12:40	Zhong Guo Engineering electrochemical protein biosensors
12:45 – 13:00	Final remarks and presentation of prizes
13:00 – 14:00	Lunch
14:00	Meeting closes