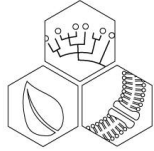


Research School of Biology HDR Conference

Thursday 23rd November 2017

Research Themes:
Host-microbe Interactions
Evolution & Genetics
Computational Biology
Membrane Transport & Enzyme Biochemistry
Ecology
Photosynthesis & PEB
Cell & Developmental Biology

8:30 - 8:50	Registration for speakers in Robertson Atrium (Bldg 46)		
8:50 - 9:00	Welcome Address in Robertson Atrium (Bldg 46) Allen Rodrigo, Director of RSB		
9:10 - 10:30	CONCURRENT SESSIONS		
	Ecology & Evolution Robertson Lecture Theatre (Bldg 46) Session Chair: Mitzy Pepper IT Helper: Carlos Pavon	Biomedical Science & Biochemistry Anderson Seminar Room (Bldg 46) Session Chair: Amanda Buyan IT Helper: Sarah Shafik	Plant Science Slatyer Seminar Room (Bldg 46) Session Chair: Andrew Bowerman IT Helper: Haochen Wei
9:10	Classifying ENU induced mutations from germline mutations in mouse with machine learning techniques Yicheng Zhu (Huttley Lab)		Effect of waterlogging on metabolic responses of sunflower under potassium gradient Jing Cui (Tcherkez Lab)
9:20	Chloroplast genome assembly Weiwen (Raymond) Wang (Lanfear Lab)		Systematic approach to understanding heat stress response in <i>Setaria viridis</i> Peng Zhang (von Caemmerer Lab)
9:30	Identifying the limits to phylogenetic inference Yurong Tang (Huttley Lab)		New Approaches for rewiring rubisco activase in plants Emmanuel Young (Whitney Lab)
9:40	Variation in the mutation rate across the human genome Helmut Simon (Huttley Lab)	<i>C. elegans</i> as a potential model to study shigella pathogenesis Pamodha Buddima Somasiri (Verma Lab)	Characterisation of Tobacco Aquaporins: The search for CO₂ pores Annamaria De Rosa (Evans Lab)**
9:50	Reconstructing the geography of speciation from contemporary biodiversity data Alexander Skeels (Cardillo Lab)	Host parasite molecular interactions in <i>Plasmodium falciparum</i> Mrinalini Pratap (Maier Lab)	A SWEET Story: <i>Setaria viridis</i> SWEETs in Phloem Loading & Unloading Lily Chen (Furbank Lab) **
10:00	The Coevolution of Social Learning Adaptations Cameron Turner (Magrath Lab) *	Study of bacteriophage-encoded genes Munazza Imran Rajput (Verma Lab)	Lutein esterification in wheat grain Jacinta Watkins (Pogson Lab)
10:10	Identifying refugia: community and species level approaches Christiana McDonald-Spicer (Moritz Lab) *	Study of Bacteriophage encoded virulence in <i>Shigella flexneri</i> serotype 1c strains Pawan Parajuli (Verma Lab) **	Membrane protein: the hidden half of the proteome Han Chung Lee (Djordjevic Lab)
10:20	Hot possums eat their protein Phillipa Beale (Foley Lab)	Development of biomarkers for protein restriction Kiran Javed (Broer Lab)	Bioengineering Monocot Rubisco in Tobacco Chloroplasts Ding Yuan (Whitney Lab) *
10:30 - 11:00	Morning Tea in Robertson Atrium (Bldg 46)		



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11:00 - 12:40 CONCURRENT SESSIONS			
	Ecology & Evolution Robertson Lecture Theatre (Bldg 46) Session Chair: Dan Rosauer IT Helper: Tobias Hayashi	Biomedical Science & Biochemistry Anderson Seminar Room (Bldg 46) Session Chair: Erin Vaughn IT Helper: Pawan Parajuli	Plant Science Slatyer Seminar Room (Bldg 46) Session Chair: Maria Ermakova IT Helper: Yi-Chang Sung
11:00	Disturbance, food and koalas Jessie Au (Foley Lab)	Understanding patterns of collateral sensitivity in the malaria parasite Simone Babij (Martin Lab)	Thermal acclimation of respiration in chickpea Fatimah Azzahra (Zara) Ahmad Rashid (Atkin Lab)
11:10	A lizard explosion in the Andes: the story of Liolaemid lizards Damien Esquerré Gheur (Keogh Lab)	Elucidating the amino acid transportomes of A549 lung cancer and HCC1806 breast cancer cell lines Gregory Gauthier-Coles (Broer Lab)	Hacking Rubisco evolution Sally-Anne Buck (Whitney Lab)
11:20	Conserving the Cerrado-unique elements on a savanna hotspot Jessica Fenker Antunes (Moritz Lab)	Characterising putative transporter proteins in apicomplexans Sanduni Hapuarachchi (van Dooren Lab)	Exploring the evolutionary protein landscape of Rubisco towards improving plant photosynthesis Yu Zhou (Whitney Lab)
11:30	Avian morphometrics and Climate change Kalya Subasinghe (Gardner Lab)	SMALPs vs DDM; featuring P-glycoprotein Shagufta Iqbal (Callaghan Lab)	Feeling seedy? Get a sugar fix! Ross Dennis (Furbank Lab)
11:40	Predator awareness training in helmeted honeyeaters Thomas Rowell (Macgrath Lab)	Does Loop 7 modulate PfCRT's transport activity? Sarah Shafik (Martin Lab)	To breed or transform? Improving cotton's resilience to climate change Demi Gamble (Sharwood Lab)
11:50	Feathers might improve Forty-spotted pardalotes breeding success Fernanda Alves Amorim (Langmore Lab)	Understanding the interaction and stabilisation of human amino acid transporter B0AT1 with its ancillary protein ACE2 Aditya Yadav (Broer Lab)	Apocarotenoids triggering unique blue colour formation of CRTISO-like genes mutant of Synechococcus PCC7942 under cold stress Xiaofeng Xiong (Pogson Lab)
12:00	Functional Biomechanics of Leaf Shape Amit Singh (Nicotra Lab)	Molecular basis for the folding of the beta-helical autotransporter passenger domains Xiaojun (Holly) Yuan (Leyton Lab)	Redesigning phosphoenolpyruvate carboxylase for improved catalysis in C4 photosynthesis Rowarne Leith (Furbank Lab)
12:10	Remote sensing of ecosystem, wildlife quality and landscape change Shukhrat Shokirov (Foley Lab)	Scening of the open scaffolds collection to find drugs that inhibit autotransporter assembly Jing Zhang (Leyton Lab)	What can we learn from CAM Rubisco? Timothy Rhodes (Whitney Lab)**
12:20	The Effect of Environment on Maternal Investment Claire Jayne Taylor (Langmore Lab)	Building a structure of PfCRT: integrating experimental observations into a homology model Sashika Richards (Martin Lab)	Crossing wires: transcriptional regulation via RNA decay Aaron Smith (Pogson Lab)
12:30	From coral reefs to seaweed meadows Yi-Yang (Alex) Chen (Fulton Lab)	Mimicking mammalian B0AT1 activity in bacterial LeuT Nishank Shah (Broer Lab)	RuBisCO and its binding partner in beta-carboxysomes Nghiem Nguyen (Price Lab)
12:40 - 2:00	Lunch in Robertson Atrium (Bldg 46)		

Research Themes:

Computational Biology

Photosynthesis & PEB

Host-microbe Interactions

Membrane Transport & Enzyme Biochemistry

Cell & Developmental Biology

Evolution & Genetics

Ecology

* next to presenter's name indicates they will have a poster on display

**next to presenter's name indicates they will be giving a 1 min presentation in the poster session

2:00- 3:30 CONCURRENT SESSIONS			
	Ecology & Evolution	Biomedical Science & Biochemistry	Plant Science
	Robertson Lecture Theatre (Bldg 46) Session Chair: Trevor Murray IT Helper: Fitria Oktalira	Anderson Seminar Room (Bldg 46) Session Chair: Matthew Johnson IT Helper: Elizabeth Whitty	Slatyer Seminar Room (Bldg 46) Session Chair: Meisha-Marika Holloway-Phillips IT Helper: Yu Zhou
2:00	Differential wasp hammering reveals cryptic speciation in Warty Hammer Orchids Alyssa Weinstein (Peakall Lab)	Keep calm and carry on Edwin Tjhin (van Dooren Lab)	Transcriptome profiling of two tomato lines differencing in drought resistance Tuan Anh Nguyen (Masle Lab)
2:10	Leek Orchids vs. Extinction ft. fungi Marc William Freestone (Linde Lab)	Complete Freund's Adjuvant as a novel cancer immunotherapy Erin Andrew (Fahrer Lab) **	Diagnosis of field plant diseases using nanopore sequencing Yiheng Hu (Rathjen Lab)
2:20	The influence of early-life environment on late-life aging Eve Cooper (Kruuk Lab)	Making fat sexy Melanie Ridgway (Maier Lab) **	Using RNAseq to dissect disease mechanisms in the cereal pathogen <i>Bipolaris sorokiniana</i> Haochen (Helena) Wei (Solomon Lab)
2:30	Misunderstood moths find their way Jesse Wallace (Zeil Lab)**	Cisplatin and Poly(sodium acrylate): a bond worth fighting for Elizabeth Whitty (Callaghan Lab)	Understanding the complexities of microRNA target recognition in plants Gigi Wong (Millar Lab)
2:40	Can ants ride a bicycle? Zoltán Kócsi (Zeil Lab) **	Investigating the roles of ZIC2 and SHH in holoprosencephaly Hannah Glanville-Jones (Arkeell Lab)	A new pathway that shapes root architecture in Arabidopsis Kelly Chapman (Djordjevic Lab)
2:50	The Fate of <i>E.coli</i> in a Non-host Environment Mahboobeh Behruznia (Gordon Lab)		Light, Plant Age, and Plasmodesmata Density Florence Danila (von Caemmerer Lab)
3:00	Companion animals as a possible source of human associated extra-intestinal <i>Escherichia coli</i> Judith Bourne (Gordon Lab)*		InterCEPtting the signal: the role of small secreted peptides in nodule development Ariel Ivanovici (Djordjevic Lab)
3:10	Host specificity of mycorrhizal fungi in Australian <i>Cryptostylis orchids</i> Arild Ranlym Arifin (Linde Lab)		New insights into control of nutrient transporters Michael Taleski (Djordjevic Lab)
3:20	Defining <i>Escherichia coli</i> bloom strains Buddhie Nanayakkara (Gordon Lab)*		Genomics of the wheat stripe rust pathogen <i>Puccinia striiformis</i> Ramawatar Nagar (Rathjen Lab)
3:30 - 4:00	Afternoon Tea in Robertson Atrium (Bldg 46)		

4:10– 5:30 CONCURRENT SESSIONS

	Ecology & Evolution Robertson Lecture Theatre (Bldg 46) Session Chair: Timothée Bonnet IT Helper: Damien Esquerre	Biomedical Science & Biochemistry Anderson Seminar Room (Bldg 46)	Plant Science Slatyer Seminar Room (Bldg 46) Session Chair: Jason Ng IT Helper: Ariel Ivanovici
4:10	Evolution of dwarves and dragons: morphology and phylogeography of monitor lizards Carlos Pavon Vazquez (Keogh Lab)		Investigation of flax rust effectors and the interaction with flax R proteins Jian Chen (Rathjen Lab)
4:20	Mycorrhizal specificity in widespread and narrow-range distribution Caladenia species Fitria Oktalira (Linde Lab)		Development and utilisation of Genome editing tool CRISPR/Cas9 in <i>Zymoseptoria tritici</i> Haseena Khan (Solomon Lab)
4:30	Phylogeny and systematics of <i>Rhytiphora</i> longhorn beetles Lauren Ashman (Rowell Lab)		Identification and characterisation of the <i>Avr7</i> effector gene from <i>Fusarium oxysporum f. sp. Lycopersici</i> Pravin Khambalkar (Jones Lab)
4:40	The pollination ecology of <i>Pterostylis</i> (Orchidaceae) Tobias Hayashi (Peakall Lab)		Malectin-like kinases in plant-pathogen interactions Alexander Gordon Sloan (Rathjen Lab)
4:50	Miocene biome turnover and size evolution across Australian vertebrates Ian Brennan (Keogh Lab)		Dissection of the Tox3-PR1 protein interaction in the <i>Parastagonospora nodorum</i>-wheat interaction Yi-Chang Sung (Solomon Lab)
5:00	Tree of the Australian fuzball flies Xuankun Li (Rowell Lab)		Using RNAseq to identify effector candidates in wheat pathogen <i>Zymoseptoria tritici</i> Chen Wang (Solomon Lab)
5:10	A closer look at the twisted genitalia of thynnine wasps Thomas Semple (Peakall Lab)		The ins and outs of dynamic leaf water status Ross Deans (Farquhar Lab)**
5:20			Long-term effect of soil type and water management on stomatal behaviour Diego Andrés Márquez Antivilo (Farquhar Lab)
5:30 - 6:00	Poster Session in Robertson Atrium (Bldg 46) * next to presenter's name indicates they will have a poster on display **next to presenter's name indicates they will be giving a 1 minute presentation in the poster session		
6:00 onwards	Conference After Party in Robertson Atrium (Bldg 46) Includes drinks and free pizza		