Time	Day 1 (Wed 13 Dec) Room 1	Day 1 (Wed 13 Dec) Room 2	Day 2 (Thur 14 Dec) Room 1	Day 2 (Thur 14 Dec) Room 2	Day 2 (Thur 14 Dec) Room 3	Day 3 (Fri 15 Dec) Room 1	Day 3 (Fri 15 Dec) Room 2	Day 3 (Fri 15 Dec) Room 3
9:00			**ECR Plenary** **Claudia Crowther** Off the straight and narrow: Non-linear plasticity in a changing world			**ECR Plenary** **Samuel Lymbery** Warfare in ants and video games		
9:15								
9:30								
			Reproduction **(Chair: Alistair Senior)**	**Morphological Evolution 1** **(Chair: Amy Slender)**	**Evolution of resistance** **(Chair: Ros Gloag)**	**Morphological Evolution 2** **(Chair: Masato Yamamichi)**	**Evolution and Conservation 2** **(Chair: Ros Gloag)**	**Development** **(Chair: Jon Evans)**
9:45			**Soleille Miller** Intergenerational Loss of Genetic Diversity in a Facultative Parthenogenetic Stick Insect Species	**Nuttakorn (Win) Taewcharoen** No holding back: vertebral column shape in fast-running prey converges on their speedy predators	**Thomas Schmidt** Global, asynchronous sweeps at multiple resistance genes in *Aedes* mosquitoes	**Yuxuan (George) Zhao** Hourglass-shaped adults and 'Pinocchio-lised' larvae: Morphological transition of Australian water beetles (Coleoptera: Dytiscidae) from aboveground to underground	**Maxim Adams** Evolution, phylogeography and conservation genetics of the Lord Howe Island cockroach *Panesthia lata*	**Ondi Crino** From eggs to adulthood: unveiling the sustained impacts of developmental conditions on skink physiology and size
10:00			**Liang Liu** Evolutionary Adaptation of Reproduction: The Pleiotropic Role of TSHÎ²2-Producing Cells in Sticklebacks	**Ellen Martin** Grasping hold of functional trade-offs using the diversity of foot forms in Australian birds	**Joshua Thia** Attack of the (resistant) clones: the rise and spread of insecticide resistance in an invasive aphid pest	**Tory Botha** Shape note: Morphological investigation of Tribrachidium from Nilpena, South Australia	**Patra Petrohilos** Attack of the Clones: no evidence for distinct phenotypic subgroups of Devil Facial Tumour Disease (DFTD)	**Huifang Yuan** Pioneer and immediate early transcription factors orchestrate an environmentally-induced life cycle transition that is highly conserved across the animal kingdom
10:15			**Caitlin Creak** Accidentally murderous spiders: a true crime on where they live and how they work.	**Russell Bonduriansky** What can allometry and life history tell us about the evolution of brain size?	**Alicia Williams** Costs of antibiotic resistance through the lens of resource competition theory	**Natasha Lee Hiotis** Hip, hop, and a fossil drop: Identifying fossil frogs from Naracoorte Caves using their ilium bone	**Julian Beaman** Eco-evolutionary projections to guide genetic rescue for threatened Australian marsupials	**Ivan Vinogradov** How inbreeding and developmental stress impact cognition
10:30			**Jinglin Wen** Evidence of Maternal-fatal Communication in Skink Pregnancy	**Rex Mitchell** Sizing up cranial allometry in mammals	**Ian Gooi** The predictability of antibiotic resistance evolution in *Acinetobacter baylyi*	**Vera Weisbecker** The thylacine as an evolutionary curiosity	**Bob Wong** Toxicants in the wilderness: an evolutionary perspective	**Alistair Senior** Nutrition and life-history in *Drosophila melanogaster*
10:45			**Morning tea**			**Morning tea**		
11:00								
			Quantitative/ population genetics **(Chair: Rowan Lymbery)**	**Invasive species** **(Chair: Jon Evans)**	**Microbial Evolution 1** **(Chair: Masato Yamamichi)**	**Macroevolution 2** **(Chair: Amy Slender)**	**Evolution and temperature** **(Chair: Ondi Crino)**	**Evolution: not classified elsewhere** **(Chair: Alistair Senior)**
11:15			**Peta Hill** Episodic population fragmentation and gene flow reveal a trade-off between heterozygosity and allelic richness	**Felipe Floreste** Host-parasite immune dynamics along the invasion range of cane toads in Australia	**Elisha Freedman** The distribution of secondary symbionts across scale insects and its evolutionary and ecological implications	**Patrice Pottier** Vulnerability of amphibians to global warming	**Amanda Pettersen** Intergenerational plasticity aligns with temperature-dependent selection on offspring metabolic rates	**Fabian C. Salgado-Roa** Drivers of colour polymorphism in a colourful widespread spider
11:30			**Iva Popovic** High germline mutation rates, but not extreme population size outbreaks, influence genetic diversity in a keystone coral predator	**Lauren Common** The Avian Vampire Fly and Darwin's Finches	**Atharva Bhilde** Investigating the ecological and coevolutionary dynamics of a root associated microbiome	**Carmen da Silva** Local climate change velocity and evolutionary history explains multidirectional range shifts in North American butterflies	**Jigmidmaa Boldbaatar** Effects of heat shock stress on egg hatching success in *Megacrania batesii* (Phasmatodea: Phasmatidae)	**Christopher Barker** Evolution of Ageing is driven adaptive gains
11:45			**Lachlan King** The effect of genetic background on quantitative mutational variation	**Kelton Cheung** Selection signatures of the invasive cane toad through whole genome analyses	**Chris Blake** Experimental Evolution of Ecosystem Topography in a Two-Species Community	**Yun Li** Evolution across adaptvie landscape in a hyperdiverse beetle radiation	**Md Mahmud Al Hasan** Effects of inbreeding and stressful developmental temperatures on guppy fitness	**Daisuke Kyogoku** Evolution of realized niche breadth diversity driven by community dynamics
12:00			**Katrina McGuigan** Effects of spontaneous mutations on fitness traits of *Drosophila serrata* infected with *Drosophila* C virus	**Ros Gloag** A population genetic timeline of a natural insect invasion	**James Richardson** Species coexistence via higher order consumer-resource interactions	**Diego Garcia-Bellido** Australian Ediacaran & Cambrian contribution to Evolution	**Rebecca Raynal** Natural oviposition site temperatures of ectotherms - a review	**Masato Yamamichi** Prey rapid evolution promotes fluctuation-dependent species coexistence
12:15			**Simone Blomberg** Phylogenetic Comparative Methods for the Quantitative Genetic G-Matrix	**Paul Battlay** Chromosomal inversions underlie rapid adaptation on multiple continents in an invasive weed	**Andrew Letten** Not-so-simple assembly rules support multispecies coexistence on a single resource	**Doaa Doudin** Evolution of subtelomeres in birds and reptiles	**Diego de Moura Campos** Synergistic effects of diet restriction and temperature on guppy development	**Devi Stuart-Fox** From bioinspired to bioinformed: materials science meets evolutionary biology
12:30	**Lunch**		**Lunch**			**Lunch**		
12:45								

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13:00	**Lunch**		**General meeting**			**Lunch**		
13:15								
13:30								
13:45								
14:00						Tag team talk - Recent Advances in Ancient DNA		

14:15	**Welcome**				
14:30	**Plenary** **Dustin Rubenstein** The Evolution of Cooperative Breeding: New Perspectives and Future Directions		Tag team talk - Post-ejaculatory environments, paternal effects and more		
14:45					
15:00			**Afternoon tea**		
15:15					
15:30	**Afternoon tea**		**Sexual selection 1 (Chair: Bruno Buzatto)**	**Evolution and Conservation 1 (Chair: Amanda Petterson)**	**Microbial Evolution 2 (Chair: Matt Symonds)**
15:45			**Fatema Akhter** Teasing apart the cost of sexual harassment and mating in females	**Grace Marsh** Genomic vulnerability to climate change in a Critically Endangered possum from southwestern Australia	**Christopher Brown** rescomp: An R package for resource competition modelling
	Macroevolution 1 (Chair: Matt Symonds)	**Evolution and climate change (Chair: Julian Beaman)**	**Daniela Wilner** Can sexual conflict explain geographic parthenogenesis?	**Emily Roycroft** Genetic load in island populations of Australian mammals	**Neetika Ahlawat** Nutrient packaging alters adaptation and genetic divergence in *E. coli*
16:00	**Zhuzhi Zhang** The phylogenetic and parallel origin of Australian soil burrowing cockroaches	**Pieter Arnold** Selection on phenotypic traits and their plasticity in response to warming of both parental and offspring environments	**Nirjana Dewan** Long-term fitness consequences of *D.melanogaster* populations evolved in the absence versus presence of male-male competition	**Oliver Stuart** Genetic rescue of reproductive fitness in a captive bred insect	**Jan Engelstaedter** The impact of natural transformation on adaptation to heterogeneous environments
16:15	**Sally Potter** Cytonuclear discordance and introgression in the brachyotis group of rock-wallabies	**Matthew Hall** The sicker sex in a warming world	**Pietro Pollo** Synthesis of sexual selection: a systematic map of meta-analyses with bibliometric analysis	**Aysegul Birand** Cheating evolution for conservation	**Michael McDonald** Horizontal gene transfer: making things happen in the the microbial world
16:30	**Amy Slender** Genomic population structure of a widely distributed Southern Australian lizard (*Tiliqua rugosa*)	**Belinda van Heerwaarden** Do endosymbionts influence thermal tolerance?	**ECR breakout**		
16:45	**Toby Kovacs** Historical population sizes and mutation rates in marsupials	**Damien Dowling** Experimental support for a mitochondrial genetic contribution to climatic adaptation			
17:00	**Kyle Ewart** Pervasive relaxed selection in termite genomes	**John Whale** Optimus Prime-ing: Can thermal resilience of seagrass seedlings be enhanced by a priming event?			
17:15					
17:30					
	Welcome event				

		Sexual selection 2 (Chair: Pietro Pollo)	**Morphological Evolution 3 (Chair: Vera Weisbecker)**	
		Megan Folwell Co-evolution of genitalia in Northern Pacific rattlesnakes (*Crotalus oreganus*)	**Sarin Tiatragul** Spags and Snags: morphological evolution of Australian blindsnakes	
		Bruno Buzatto Mating behaviour in the Sydney funnel-web spider and the evolution of clasping structures in mygalomorph spiders	**Tamika Nash-Hahn** Sequential scales: New perspectives on snake axial evolution	
		Tom Allison Sexual selection shapes the evolution of mitochondrial efficiency	**Yasmin Asar** Testing the link between molecular and morphological rates of evolution	
		Martin Whiting Evolution of a conspicuous dynamic visual signal in an introduced chameleon	**Estefany Karen Lopez Estrada** Testing the punctuated equilibria model using morphological and molecular data	
	Afternoon tea			
	Flash Talks Jasmine Towle Aubrey Keirnan Meg Martin Austin Fitzpatrick Lorenzo Ricolfi Melissa Hernandez Poveda Lucy Ockert Adi Nugroho Veerabhadra (Raju) Dantuluri Lynea Witczak Oldfather Tariq Ezaz Marcus Michelangeli			
	Closing and Prizes			
	Conference dinner			