

University of Queensland

Brisbane, Qld, 2025

Day 1 Wednesday 1st October			Day 2 Thursday 2nd October				Day 3 Friday 3rd October		
Time	Room 1	Room 2	Time	Room 1	Room 2	Time	Room 1	Room 2	
8:45	Welcome to AES: Renée Firman (AES President) and Simone	Blomberg (Conference Host) - Welcome to Country Ceremony	9:00	House	ekeeping	9:0	0 Hous	sekeeping	
	ECR Plenary			ECR Plenary			ECR Plenary		
9:15	9:15 Jamiema Sara Philip Easy come, easier go: mapping the loss of flagellar motility across the tree of life		9:15 Paul Battlay Genomic structural variation drives rapid adaptation in invasive plants		9:15	Kristoffer Wild Climate change and the cost-of-living squeeze in desert lizards			
	Sociality. Chair: Renée Firman	Morphological evolution. Chair: Bryan Fry		Plasticity. Chair: Dan Noble	Sexual selection. Chair: ????????		Sociality/Development/Macroevolution. Chair: Tom Schmidt	Plasticity. Chair: Erin Macartney	
		Cartey Goodwin: A computational fluid dynamics (CFD) study exploring the effects of	10:00	Jade Kannangara: The evolutionary implications of mitochondrial heteroplasmy	Mathilde Le Levier: The role of iridescent colours in butterfly sexual selection	10:0	O Maxim Adams: Behavioural island syndrome in the Lord Howe Island cockroach Panesthia lata	Russell Bonduriansky: Born old: Transmission of ageing from mothers to offspring	
10:00	Kim Wong: Royal Blood, Mortal Cost: The effects of inbreeding on survivorship and fecundity in European Royal Families Lachtan von Pein: The potential for territorial defence and group augmentation to drive	nasal passage morphology on respiratory airflow of bats (Rhinolophoidea). Liz Surovic: A comparative morphology study of blennies looking at the water to land	10:15	01-11-01-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1	•	10.0	Panesthia lata Sonnie Rores: Roars, rumbles, and resonance: A systematic review and meta-analysi of crocodylian acoustic signals	Dan Noble: Limited plasticity but increased variance in physiological rates across	
10:15	Lachtan von Pein: The potential for territorial defence and group augmentation to drive the evolution of human cooperation Avantika Sharma: Intra-sexual competition in cooperatively breeding Western	transition Ray Chatterji: Dietary specialization drives adaptation, convergence, and integration		consequences for communities?	influence on adaptation. Hyoseul Hyun: How sex differences balance genome-wide fitness of facultative asexual	10:1	of crocodylian acoustic signals Bernie Degnan: Origin of the regulatory genome	ectotherm populations under climate change Andre Nogueira Alves: How naturally occurring insecticide resistance alleles lead to	
10:30	Avantika Sharma: Intra-sexual competition in cooperatively breeding Western Australian magpies	across the cranial and appendicular skeleton in Waterfowl (Anseriformes)	10:30	Tahtia Fulton: Adaptive nutrition: Cross-protection by amino acid restriction	organisms?	10:3	0 Service Degrand Origin of the regulatory genome	broader colonizing opportunities in D. melanogaster	
10:45			10:45 Morning tea			10:4	:45 Morningtea		
	Macroevolution. Chair: Matt Baker	Sexual selection. Chair: Lucinda Aulsebrook		Nutrients, guts, antibiotics, immunity. Chair: Damian Dowling	Morphological evolution/speciation. Chair: Kris Wild		Venom. Chair: Dan Hoops	Various. Chair: Cynthia Riginos	
11:15	Steve Cooper: Molecular evolution of Circadian Rhythm genes in blind water beetles from the dark biosphere	Andrea Piccinini: Buried alive: Post-copulatory behaviour of a Western Australian species of wishbone soider	11:15	Yu-Pei Tseng: The impact of resource fluctuations on coexistence in a gut microbial community	Putter Tiatragul: Evolution of Australia's endemic diplodactylid geckos	11:1	Bryan Fry: Make acetylcholine great again! Predators and prey of venomous snakes convergently evolved multiple types of neurotoxin-proof neuromuscular receptors	Lucinda Autsebrook: Warming temperatures induce severe spinal deformities and mortality in highly successful tropical invader, Gambusia holbrooki	
	Lachlan King: Consistent patterns of mutational covariance for Drosophila wing shape traits in three genetic backgrounds	Sanni Silvasti: Flashing signals and butterfly visual behaviour	11:30	Alistair Senior: The effects of macronutrients on age-specific mortality. A replicable	David Brito: Insights on the evolution of skull shape in Australian fossorial elapids	11:3	O Lorenzo Seneci: Convergent yet divergent evolutions of two novel procoagulant veno	Fabian Ruperti: The ocean in me - Molecular profiling of sponge movement reveals an	
	Toby Kovacs: Genomics uncovers demographic declines in marsupials	Vicky Ying: Is parthenogenesis equivalent to inbreeding? Experimental evidence from a	11:45	Christopher Brown: Optimising antibiotic, resource covariance and frequency to	Ammresh: How would a snake wear a tie? Regionalisation within the elapid vertebral	11:4	Kat Kempson: Clinical implications of regional variations in coagulotoxic effects and	Jeremias Ivan: Selecting window sizes for phylogenomic analyses of whole genome	
	lan Brennan: The evolving adaptive landscape of Australian dragons	facultatively parthenogenetic stick insect Daniela Wilner: Sex-resistant stick insects and their microscopic inhabitants: Could	12:00	minimise resistance evolution	column Sam Campbell: Heavy Metal Predators: diverse patterns of metal enrichment in	40.0	antivenom efficacies for Swiss Alps populations of Vipera aspis (Asp Viper) Kate Jordan: Clinical implications of dramatic ontogenetic shifts in Yellow Beard	alignments Samantha Howitt: Mixed up Mytilus: contrasting outcomes of hybridisation in admixed	
	Annie Guillaume: Corats, currents and climate: seascape genomics for informing	endosymbionts explain patterns of geographic parthenogenesis? Shay Hirani: Scaling and developmental integration of a massively exaggerated		ritampicin mutations	scorpion weapons Kenzie Metanson: Comparison of sperm availability in hybridizing male Fundulus	12.0	Bothrops atrox) venom activation of blood clotting factors Patrick Champagne: Factor Va as an obligate cofactor as the missing key to	populations Zoe Meziere: Repeatability and predictability of local (mal)adaptation under climate	
12:15	conservation	secondary sexual sensory trait	12:15		heteroclitus and F. diaphanus in Porters Lake, Nova Scotia, Canada	12:1	understanding viper venom procoagulation toxicity	change	
12:30	u	unch	12:30	te	unch	12:3	0	uunch	
	Plasticity. Chair: Alistair Senior	Various. Chair: Cynthia Riginos		Conservation/Phylogenetics. Chair: Giulia Ghedini	Tag Team Talk. Lead: Daniel Ortiz-Barrientos		Chair: Simone Blomberg		
13:45	Erin Macartney: Paternal dietary effects on seminal fluid and offspring development	Manuel Poretti: Genome evolution and adaptive potential of symbiotic algae ostreobium in coral bleaching recovery	13:30	Matthew Sitcocks: Retracing the stepwise evolution of a deadly human pathogen using ancestral sequence reconstruction	15m Daniel Ortiz-Barrientos: Ecolypes as natural experiments: the making of adaptive traits in Senecio 5m Jack Price: Defining complexity as an evolvable trait				
	Tim Temizyurek: Definitions of phenotypic plasticity	Tom Schmidt: Dissecting new pest invasions with evolutionary genomics Jia Chang: The distinct genomic evolution of Serratia symbionts in the redlegged earth	13:45	Southern Stuttering Frogs (Mixophyes australis)	12m Zoe Broad: The role of gene expression during adaptation 5m Yulin Sun: Evaluating gene flow inference with forward simulations: A case study	13:3			
14.15	Simon Hart: The effect of phenotypic plasticity on plant population dynamics in a non- stationary environment	mite	14:00	for conservation	10m Maddie James: When does local adaptation lead to reproductive isolation? 5m Aparna Thulaseedharan: Leveraging local adaptations for crop improvement: the		Evolution & ancien	DNA: People and ideas	
14:30	Daniel Hoops: Neuroanatomical changes in Australian lizards detected using 3D imaging	Moshe Jasper: Demography & selection in the Aedes aegypti invasion of the Asia-Pacific	14:15	Patra Petrohilos: When Cells Rebel: using comparative genomics to investigate cancer susceptibility in marsupials	future from the past from Charles Zhou: Making the Most of Less in Imputation for Non-Model Species				
14:45	Eve Maunders: The microbial makings of a marine sponge	Janne Torkkola: Mapping reproductive mode in Australian sphenomorphine skinks	14:30	Anupama Nayak: A global comparative analysis links PFAS contamination with marine fish functional traits	15m Questions	14:3			
15:00	Afternoon tea		15:00	Aftern	oontea		30 Closing and Prizes		
	Macroevolution. Chair: Putter Tiatragul	Speciation/Development/Various. Chair: Tahlia Fulton		Flash Talks (various topic	cs). Chair: Damien Esquerre				
	James Richardson: Cross-feeding supports the evolution of a gleaner- opportunist pair	Kei-Lin Ooi: Diversification in nymphalid butterflies: effects of sexual size dimorphism, conspicuousness and eyespots							
15:45	Thea Elson-Green: We'll cross that bridge when we get there - diffusion bridges for ancestral trait reconstruction	Byon Nongthongbam: Genome size and TE content variation in a global invasive species		Thomas Veldhuis; Apoorva Gopinath; Andres Porras; Claire Larroux; Tina Wu; Artie Macdonald; Emma Holvast; Jackson Rendalt; Peisong Tian; Diana Fisher, Avantika Sharma; Angi De Silva; Matthew Baker					
16:00	Romane Normand: Meta-analysis on the evolutionary parallelism of native and introduced plants	Warramaba virgo with hybridisation and Next-generation sequencing							
	16:15 Alex Skeels: Paleobiome dynamics shaped a large Gondwanan plant radiation lva Popovic: Parallel adaptive admixture in a coral species triad								
16:30	mechanisms								
	Alexandros Sotiropoulos: First indication of structural homology and co- evolution of candidate effector proteins of diverse fungi that attack other fungi	Tsering Chan: DNA methylation changes in response to infection by a co- evolved parasite in cane toads							
17:00		Sandie Degnan/Huifang Yuan: Environmental regulation of cell state reprogramming revealed in ancient animal life cycles	16:45						