

## 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				Plenary
9:15 Jamiema Sara Philip		9:15			9:15	5 Kristoffer Wild Climate change and the cost-of-living squeeze in desert lizards		
	Easy come, easier go: mapping the loss of flagellar motility across the tree of life		Genomic structural variation drives rapid adaptation in invasive plants			-	of-living squeeze in desert lizards	
	Sociality. Chair: Renée Firman Kim Wong: Royal Blood, Mortal Cost: The effects of inbreeding on survivorship and	Morphological evolution. Chair: Bryan Fry  Carley Goodwin: A computational fluid dynamics (CFD) study exploring the effects of		-	Sexual selection. Chair: Ian Brennan	-	Sociality/Development/Macroevolution. Chair: Tom Schmidt	Plasticity. Chair: Erin Macartney  Russell Bonduriansky: Born old: Transmission of ageing from mothers to offspring
	recundity in European Royal Families	nasal passage morphology on respiratory airflow of bats (Rhinolophoidea).	10:00	Jade Kannangara: The evolutionary implications of mitochondrial heteroplasmy	Mathilde Le Levier: The role of iridescent colours in butterfly sexual selection	10:0	0 Maxim Adams: Behavioural island syndrome in the Lord Howe Island cockroach Panesthia lata	
	Lachtan von Pein: The potential for territorial defence and group augmentation to drive the evolution of human cooperation	Liz Surovic: A comparative morphology study of blennies looking at the water to land transition	10:15	Giulia Ghedini: Evolving with competitors: what do species maximise and what are the consequences for communities?	Taylor Hosler: Thermal plastcity of sexually and naturally selected traits and the influence on adaptation.	10:1	5 Sonnie Flores: 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 ectotherm populations under climate change
10.20	Avantika Sharma: Intra-sexual competition in cooperatively breeding Western Australian magpies	Ray Chatterji: Dietary specialization drives adaptation, convergence, and integration across the cranial and appendicular skeleton in Waterfowl (Ansertformes)	10:30	Tahlia Fulton: Adaptive nutrition: Cross-protection by amino acid restriction	Hyoseut Hyun: How sex differences balance genome-wide fitness of facultative asexual organisms?	10:3	0 Bernie Degnan: Origin of the regulatory genome	Andre Nogueira Alves: How naturally occurring insecticide resistance alleles lead to broader cotonizing opportunities in D. melanogaster
10:45			10:45	10:45 Moming tea		10:4	5 Mo	mingtea
	Macroevolution. Chair: Matt Baker	Sexual selection. Chair: Lucinda Aulsebrook			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 spider	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
11:20	from the dark biospinere 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	All-tal-Contact the effects of an arms triants are assembled to the first triangle	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 facultatively parthenogenetic stick insect	11:45	Christopher Preum Ontimicing antihiotic recourse emerines and frequency to	Ammresh: How would a snake wear a tie? Regionalisation within the elapid vertebral column	11:4	5 Kat Kempson: Clinical implications of regional variations in coagulotoxic effects and	Jeremias Ivan: Selecting window sizes for phylogenomic analyses of whole genome
12:00	Ian Brennan: The evolving adaptive landscape of Australian dragons	Daniela Witner: Sex-resistant stick insects and their microscopic inhabitants: Could endosymbionts explain patterns of geographic parthenogenesis?	12:00	Alicia Williams: What does it cost to resist antibiotics? The fitness landscape of	Sam Campbell: Heavy Metal Predators: diverse patterns of metal enrichment in spornion weapons	12:0	0 Kate Jordan: Clinical implications of dramatic ontogenetic shifts in Yellow Beard	Samantha Howitt: Mixed up Mytilus: contrasting outcomes of hybridisation in admixed nonulations
12:15	Annie Guillaume: Corals, currents and climate: seascape genomics for informing	Shay Hirani: Scaling and developmental integration of a massively exaggerated	12:15		Kenzie Melanson: Comparison of sperm availability in hybridizing male Fundulus	10.1	Patrick Champagne: Factor Va as an obligate contactor as the missing key to	Zoe Meziere: Repeatability and predictability of local (mal)adaptation under climate
12.15	conservation	secondary sexual sensory trait	12.13		heteroclitus and F. diaphanus in Porters Lake, Nova Scotia, Canada	12.1	understanding viper venom procoagulation toxicity	change
12:30	tu	inch	12:30	tu	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	ostreobium in coral bleaching recovery ancestral sequence reconstruction		15m Daniel Ortiz-Barrientos: Ecotypes as natural experiments: the making of adaptive traits in Senecio				
14:00	Tim Temizyurek: Definitions of phenotypic plasticity	Tom Schmidt: Dissecting new pest invasions with evolutionary genomics	13:45	Kamryn Carter: Genomic management of a captive breeding program of endangered Southern Stuttering Frogs (Mixophyes australis)	5m Jack Price: Defining complexity as an evolvable trait 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		or Plenary I Lambert
14:15	Simon Hart: The effect of phenotypic plasticity on plant population dynamics in a non- stationary environment	Jia Chang: The distinct genomic evolution of Serratia symbionts in the redlegged earth	14:00	Zenon Czenze: Bridging the gap: combining thermal physiology, ecology and biophysics for conservation	of ABBA-BABA 10m Maddie James: When does local adaptation lead to reproductive isolation?		Evolution & ancien	DNA: People and ideas
14:30	Daniel Hoops: Neuroanatomical changes in Australian lizards detected using 3D	Moshe Jasper: Demography & selection in the Aedes aegypti invasion of the Asia-Pacific	14:15	Patra Patra bilas (Mihan Calla Baha): using comparative generals to investigate concer	5m Aparna Thulaseedharan: Leveraging local adaptations for crop improvement: the future from the past			
14:45	Eve Maunders: The microbial makings of a marine sponge	Janne Torkkola: Mapping reproductive mode in Australian sphenomorphine skinks	14:30	Anumama Maraka & clobal comparative analysis links DEAS contamination with marine	5m Charles Zhou: Making the Most of Less in Imputation for Non-Model Species 15m Questions			
15:00	Aftern	ioon tea	15:00	Aftern	noon tea	14:3	O Closin	g and Prizes
	Macroevolution. Chair: Putter Tiatragul	Speciation/Development/Various. Chair: Tahlia Fulton		Flash Talks (various topic	cs). Chair: Damien Esquerre			
15:30	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 evespots						
		Byon Nongthongbam: Genome size and TE content variation in a global invasive		Thomas Veldhuis; Apoorva Gopinath; Andres Porras; Claire Larroux; Tina Wu; Arlie Macdonald; Emma Holvast; Jackson Rendall; Peisong Tian;				
	Thea Elson-Green: We'll cross that bridge when we get there - diffusion bridges for ancestral trait reconstruction  Romane Normand: Meta-analysis on the evolutionary parallelism of native and	species  Owen Holland: Revisiting the cytogenetics of the parthenogenic grasshopper						
16:00	introduced plants	Warramaba virgo with hybridisation and Next-generation sequencing						
		Iva Popovic: Parallel adaptive admixture in a coral species triad						
16:30	Oceane Blard: Sponge metamorphosis uses conserved animal developmental mechanisms	Jie Wang: Reticulation patterns in Australian burrowing frogs Neobatrachus						
	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 reveated in ancient animal life cycles	16:45					
1 1				7 - V H				