

## University of Queensland

## Brisbane, Qld, 2025

<b>Time</b> 08:45	Room 1				Day 2 Thursday 2nd October			Day 3 Friday 3rd October	
08:45		Room 2	Time	Room 1	Room 2	Time	Room 1	Room 2	
	Welcome to AES: Renée Firman (AES President) and Simone Blomberg (Conference Host) - Welcome to Country Ceremony 09:00		Housekeeping Housekeeping		09:00	) Housekeeping			
09:15 Social	ECR Plenary  Jamiema Sara Philip  Easy come, easier go: mapping the loss of flagellar motility across the tree of life  Sociality. Chair: Renée Firman  Morphological evolution. Chair: XXXXXXXX		09:15	ECR Plenary Paul Battlay Genomic structural variation drives rapid adaptation in invasive plants Plasticity. Chair: XXXXX Sexual selection. Chair:		09:15	ECR Plenary Kristoffer Wild Climate change and the cost-of-living squeeze in desert lizards Sociality/Development. Chair: Plasticity. Chair: Erin Macartney		
10:00 Kim Wo	<b>Wong:</b> Royal Blood, Mortal Cost: The effects of inbreeding on survivorship and ndity in European Royal Families	<b>Carley Goodwin:</b> A computational fluid dynamics (CFD) study exploring the effects of 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	10:00	<b>Maxim Adams:</b> Behavioural island syndrome in the Lord Howe Island cockroach Panesthia lata	Russell Bonduriansky: Born old: Transmission of ageing from mothers to offspring	
10:15 Lachlar the evo	lan von Pein: The potential for territorial defence and group augmentation to drive volution of human cooperation	<b>Elizabeth Surovic:</b> A comparative morphology study of blennies looking at the water to land transition	10:15	Lisa Schwanz: TBA	<b>Taylor Hosler:</b> Thermal plastcity of sexually and naturally selected traits and the influence on adaptation.	10:15		<b>Daniel Noble:</b> Limited plasticity but increased variance in physiological rates across ectotherm populations under climate change	
1 107,301		Ray Chatterji: Dietary specialization drives adaptation, convergence, and integration across the cranial and appendicular skeleton in Waterfowl (Anseriformes)	10:30	<b>Liablia Fulton:</b> Adaptive nutrition: Cross-protection by amino acid restriction	<b>Hyoseul Hyun:</b> How sex differences balance genome-wide fitness of facultative asexual organisms?	10:30	Lachlan King: Consistent patterns of mutational covariance for Drosophila wing shape traits in three genetic backgrounds	Andre Nogueira Alves: How naturally occurring insecticide resistance alleles lead to broader colonizing opportunities in D. melanogaster	
10:45	Morn	ing tea	10:45	Morni	ng tea	10:45	Morni	ing tea	
Macro	croevolution. Chair: XXXXXXX	Sexual selection. Chair: XXXXXXXXX		Nutrients, guts, antibiotics, immunity. Chair:XXXXXX	Morphological evolution/speciation. Chair:		Venom. Chair:	Phylogenetics/Conservation. Chair:	
11:15 Steve C	<b>e Cooper:</b> Molecular evolution of Circadian Rhythm genes in blind water beetles 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	11:15	<b>Bryan Fry:</b> Make acetylcholine great again! Predators and prey of venomous snakes convergently evolved multiple types of neurotoxin-proof neuromuscular receptors	Lucinda Aulsebrook: Warming temperatures induce severe spinal deformities and mortality in highly successful tropical invader, Gambusia holbrooki	
11:30 Bernie	ie Degnan: Origin of the regulatory genome	Sanni Silvasti: Flashing signals and butterfly visual behaviour	11:30	Alistair Senior: The effects of macronutrients on age-specific mortality. A replicable effect!	David Brito: Exploring Morphology and Habitat in Ecuadorian Whortail-Iguanas	11:30		Fabian Ruperti: The ocean in me - Molecular profiling of sponge movement reveals an ancient relaxant-inflammatory response	
11:45 Toby K	Kovacs: Genomics uncovers demographic declines in marsupials	Wai Chi Vicky Ying: Is parthenogenesis equivalent to inbreeding? Experimental evidence from a facultatively parthenogenetic stick insect	11:45	<b>Christopher Brown:</b> Optimising antibiotic, resource covariance and frequency to minimise resistance evolution	Ammresh: Regionalisation within the elapid vertebral column	11:45	<b>Kat Kempson:</b> Clinical implications of regional variations in coagulotoxic effects and antivenom efficacies for Swiss Alps populations of Vipera aspis (Asp Viper)	Jeremias Ivan: Selecting window sizes for phylogenomic analyses of whole genome alignments	
12:00 lan Bre	Brennan: The evolving adaptive landscape of Australian dragons	<b>Daniela Wilner:</b> Sex-resistant stick insects and their microscopic inhabitants: Could endosymbionts explain patterns of geographic parthenogenesis?	12:00	·	Sam Campbell: Heavy Metal Predators: diverse patterns of metal enrichment in scorpion weapons	12:00		Samantha Howitt: Mixed up Mytilus: contrasting outcomes of hybridisation in admixed populations	
12:15		Shay Hirani: Scaling and developmental integration of a massively exaggerated secondary sexual sensory trait	12:15	Sandie Degnan: Host-symbiont recognition underpins the origin of animal innate immunity	Kenzie Melanson: Comparison of sperm availability in hybridizing male Fundulus heteroclitus and F. diaphanus in Porters Lake, Nova Scotia, Canada	12:15	Patrick Champagne: Factor Va as an obligate cofactor as the missing key to understanding viper venom procoagulation toxicity	Zoe Meziere: Repeatability and predictability of local (mal)adaptation under climate change	
12:30	Lu	nch	12:30	Lur	nch	12:30	Lu	nch	
Plasti	sticity. Chair: XXXXXXX	Phylogenetics. Chair: XXXXXXX		Conservation/Phylogenetics. Chair:	Tag Team Talk. Lead: Daniel Ortiz-Barrientos		Chair: Simone Blomberg		
13:45 Erin Ma	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 Silcocks: Retracing the stepwise evolution of a deadly human pathogen using ancestral sequence reconstruction	15m Daniel Ortiz-Barrientos: Ecotypes as natural experiments: the making of adaptive		Senior Plenary David Lambert TBA		
14:00 Tim Tei	Temizyurek: Definitions of phenotypic plasticity	Tom Schmidt: Dissecting new pest invasions with evolutionary genomics	13:45	Southern Stuttering Frogs (Mixophyes australis)	traits in Senecio 5m Jack Price: Defining complexity as an evolvable trait 12m Zoe Broad: The role of gene expression during adaptation	13:30			
1 1/1.151	<b>S Zec:</b> The effect of phenotypic plasticity on plant population dynamics in a non- onary environment	<b>Jia Chang:</b> The distinct genomic evolution of Serratia symbionts in the redlegged earth mite	14:00	biophysics for conservation	12m Zoe Broad: The role of gene expression during adaptation 5m Yulin Sun: Evaluating gene flow inference with forward simulations: A case study of ABBA-BABA 10m Maddie James: When does local adaptation lead to reproductive isolation? 5m Aparna Thulaseedharan: Leveraging local adaptations for crop improvement: the				
14:30 Daniel imaging	el Hoops: Neuroanatomical changes in Australian lizards detected using 3D ging	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 5m <b>Charles Zhou</b> : Making the Most of Less in Imputation for Non-Model Species 15m Questions				
14:45		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		14:30	Closing a	and Prizes	
15:00	Aftern	oon tea	15:00	Afterno	oon tea				
Macro	Acroevolution. Chair: XXXXXXXX  Speciation/Development. Chair: XXXXXXXX  Vol. Lin Cale Diversification in purposed in butterflices of caused size dimensions.			Flash Talks (various topics). Chair: Damien Esquerre					
15:30 James	es Richardson: Cross-feeding supports the evolution of a gleaner-opportunist pair	<b>Kei-Lin Ooi:</b> Diversification in nymphalid butterflies: effects of sexual size dimorphism, conspicuousness and eyespots							
15:45 ancestr	stral trait reconstruction	<b>Byonkesh Nongthongbam:</b> Genome size and TE content variation in a global invasive species							
16:00 paralle	illelism of local anabiation between halive and introduced randes of	Owen Holland: Revisiting the cytogenetics of the parthenogenic grasshopper Warramaba virgo with hybridisation and Next-generation sequencing	15.00	Thomas Veldhuis; Apoorva Gopinath; Vishwa Patel; Samuel Ingloff-Richards; Andres Porras; Claire Larroux; Yuxuan Zhao; Tianchun Wu; Arlie Macdonald; Emma Holvast; Jackson Rendall; Peisong Tian; Diana Fisher; Avantika Sharma; Nissanka De Silva; Matthew Baker					
		Iva Popovic: Parallel adaptive admixture in a coral species triad	15:30						
16:30 Oceane mechan	ane Blard: Sponge metamorphosis uses conserved animal developmental hanisms	Jie Wang: Reticulation patterns in Australian burrowing frogs Neobatrachus							
16:45 Alexand		<b>Huifang Yuan:</b> Divergent developmental roles of duplicated FoxO transcription factors in a basal metazoan, the marine demosponge Amphimedon queenslandica							
			16:45	Zoe Kean: How to become a great science communicator					
			(~1 hr)						
18:00	Welcome drinks at Saint Lucy (Caffe e Cucina), Blair Drive, University of Queensland 19:			Dinner at The Burrow, 52 Russell Street, West End					