

16:45

(~1 hr)

19:00

16:45 Alexandros Sotiropoulos: First indication of structural homology and co-evolution of candidate effector proteins of diverse fungi that attack other fungi

Huifang Yuan: Environmental regulation of cell state reprogramming revealed in ancient animal life cycles

Welcome drinks at Saint Lucy (Caffe e Cucina), Blair Drive, University of Queensland

18:00

## University of Queensland

## Brisbane, Qld, 2025

Day 1 Wednesday 1st October			Day 2 Thursday 2nd Octobor			Day 2 Friday 2rd 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
08:45 Welcome to AES: Renée Firman (AES President) and Simo	one Blomberg (Conference Host) - Welcome to Country Ceremony	09:00	House	keeping	09:00	House	keeping
ECR Plenary			ECR Plenary		09:15		
09:15 Jamiema Sara Philip		09:1	Paul Battlay				
	loss of flagellar motility across the tree of life	4	Genomic structural variation drives rapid adaptation in invasive plants			Climate change and the cost-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  d Carley Goodwin: A computational fluid dynamics (CFD) study exploring the effects of		Plasticity. Chair: Dan Noble	Sexual selection. Chair: ???????		Sociality/Development/Macroevolution. Chair: Tom Schmidt  Maxim Adams: Behavioural island syndrome in the Lord Howe Island cockroach	Plasticity. Chair: Erin Macartney
fecundity 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	10:00	Panesthia lata	Russell Bonduriansky: Born old: Transmission of ageing from mothers to offspring
10:15 Lachlan von Pein: The potential for territorial defence and group augmentation to the evolution of human cooperation	drive 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?	<b>Taylor Hosler:</b> Thermal plastcity of sexually and naturally selected traits and the influence on adaptation.	10:15	<b>Sonnie Flores:</b> Roars, rumbles, and resonance: A systematic review and meta-analysis of crocodylian acoustic signals	<b>Dan Noble:</b> Limited plasticity but increased variance in physiological rates across ectotherm populations under climate change
10:30 Avantika Sharma: Intra-sexual competition in cooperatively breeding Western	Ray Chatterji: Dietary specialization drives adaptation, convergence, and integration		Tahlia Fulton: Adaptive nutrition: Cross-protection by amino acid restriction	Hyoseul Hyun: How sex differences balance genome-wide fitness of facultative		Bernie Degnan: Origin of the regulatory genome	Andre Nogueira Alves: How naturally occurring insecticide resistance alleles lead to
Australian magpies	across the cranial and appendicular skeleton in Waterfowl (Anseriformes)			asexual organisms?			broader colonizing opportunities in D. melanogaster
10:45 Morning tea		10:45	Morning tea 10:45		Morning tea		
Macroevolution. Chair: Matt Baker	Sexual selection. Chair: ???????		Nutrients, guts, antibiotics, immunity. Chair:Damian Dowling	Morphological evolution/speciation. Chair: Kris Wild		Venom. Chair: ???????	Various. Chair: Cynthia Riginos
11:15 Steve Cooper: Molecular evolution of Circadian Rhythm genes in blind water beet from the dark biosphere	tles 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	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	<b>Lucinda Aulsebrook:</b> Warming temperatures induce severe spinal deformities and mortality in highly successful tropical invader, Gambusia holbrooki
11:30 Lachlan King: Consistent patterns of mutational covariance for Drosophila wing s traits in three genetic backgrounds		11:30	Alistair Senior: The effects of macronutrients on age-specific mortality. A replicable effect!	David Brito: Insights on the evolution of skull shape in Australian fossorial elapids	11:30	Lorenzo Seneci: Convergent yet divergent evolutions of two novel procoagulant venom phenotypes nested within North American anticoagulant rattlesnakes	
11:45 Toby Kovacs: Genomics uncovers demographic declines in marsupials	Vicky Ying: Is parthenogenesis equivalent to inbreeding? Experimental evidence from a	a 11:45	Christopher Brown: Optimising antibiotic, resource covariance and frequency to minimise resistance evolution	Ammresh: How would a snake wear a tie? Regionalisation within the elapid vertebral	11:45	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	facultatively parthenogenetic stick insect  Daniela Wilner: Sex-resistant stick insects and their microscopic inhabitants: Could	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	12:00	antivenom efficacies for Swiss Alps populations of Vipera aspis (Asp Viper) <b>Kate Jordan:</b> Clinical implications of dramatic ontogenetic shifts in Yellow Beard	alignments  Samantha Howitt: Mixed up Mytilus: contrasting outcomes of hybridisation in admixe
Annia Cuillauma: Carala aurrents and climate: coascane genemics for informing	endosymbionts explain patterns of geographic parthenogenesis?  Shay Hirani: Scaling and developmental integration of a massively exaggerated	12.00	rifampicin mutations  Sandie Degnan: Host-symbiont recognition underpins the origin of animal innate	scorpion weapons  Kenzie Melanson: Comparison of sperm availability in hybridizing male Fundulus		Patrick Champagne: Easter Value an obligate enfactor as the missing key to	populations <b>Zoe Meziere:</b> Repeatability and predictability of local (mal)adaptation under climate
12:15 conservation	secondary sexual sensory trait	12:1	immunity	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	change
12:30	Lunch	12:30	) Lu	ınch	12:30	Lu	inch
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 developme	Manuel Poretti: Genome evolution and adaptive notential of symbiotic algae	13:30	Matthew Silcocks: Retracing the stepwise evolution of a deadly human pathogen using ancestral sequence reconstruction	15m <b>Daniel Ortiz-Barrientos:</b> 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		Kamryn Carter: Genomic management of a captive breeding program of endangered Southern Stuttering Frogs (Mixophyes australis)	5m <b>Jack Price:</b> Defining complexity as an evolvable trait  12m <b>Zoe Broad:</b> The role of gene expression during adaptation  5m <b>Yulin Sun:</b> Evaluating gene flow inference with forward simulations: A case study of	13:30	Senior Plenary  David Lambert	
14:15 Boris Zec: The effect of phenotypic plasticity on plant population dynamics in a no	The state of the s	_	<b>\  Zenon Czenze:</b> Bridging the gap: combining thermal physiology, ecology and	ABBA-BABA	l	Evolution & ancient l	
	on- <b>Jia Chang:</b> The distinct genomic evolution of Serratia symbionts in the redlegged earth	مممدا ا	high by pigg for conservation				· · · · · · · · · · · · · · · · · · ·
stationary environment  Daniel Hoops: Neuroanatomical changes in Australian lizards detected using 3D	mito	مممدا ا	biophysics for conservation  Patra Petrohilos: When Cells Rebel: using comparative genomics to investigate cancer	10m Maddie James: When does local adaptation lead to reproductive isolation?			
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Zoe Kean: How to become a great science communicator

Dinner at The Burrow, 52 Russell Street, West End