



	Day 1 Wednesday
Time	Room 1
8:45	Welcome to AES: Renée Firman (AES President) and Simone E
9:15	ECR P Jamiema S Easy come, easier go: mapping the loss c
	<b>Sociality. Chair: Renée Firman</b>
10:00	<b>Kim Wong:</b> Royal Blood, Mortal Cost: The effects of inbreeding on survivorship and fecundity in European Royal Families
10:15	<b>Lachlan von Pein:</b> The potential for territorial defence and group augmentation to drive the evolution of human cooperation
10:30	<b>Avantika Sharma:</b> Intra-sexual competition in cooperatively breeding Western Australian magpies
10:45	Morni
	<b>Macroevolution. Chair: Matt Baker</b>
11:15	<b>Steve Cooper:</b> Molecular evolution of Circadian Rhythm genes in blind water beetles from the dark biosphere
11:30	<b>Lachlan King:</b> Consistent patterns of mutational covariance for Drosophila wing shape traits in three genetic backgrounds

11:45	<b>Toby Kovacs:</b> Genomics uncovers demographic declines in marsupials
12:00	<b>Ian Brennan:</b> The evolving adaptive landscape of Australian dragons
12:15	<b>Annie Guillaume:</b> Corals, currents and climate: seascape genomics for informing conservation
12:30	<b>Lunch</b>
	<b>Plasticity. Chair: Alistair Senior</b>
13:45	<b>Erin Macartney:</b> Paternal dietary effects on seminal fluid and offspring development
14:00	<b>Tim Temizyurek:</b> Definitions of phenotypic plasticity
14:15	<b>Simon Hart:</b> The effect of phenotypic plasticity on plant population dynamics in a non-stationary environment
14:30	<b>Daniel Hoops:</b> Neuroanatomical changes in Australian lizards detected using 3D imaging
14:45	<b>Eve Maunders:</b> The microbial makings of a marine sponge
15:00	<b>Afternoon break</b>
	<b>Macroevolution. Chair: Putter Tiatragul</b>
15:30	<b>James Richardson:</b> Cross-feeding supports the evolution of a gleaner-opportunist pair
15:45	<b>Thea Elson-Green:</b> We'll cross that bridge when we get there - diffusion bridges for ancestral trait reconstruction
16:00	<b>Romane Normand:</b> Meta-analysis on the evolutionary parallelism of native and introduced plants
16:15	<b>Alex Skeels:</b> Paleobiome dynamics shaped a large Gondwanan plant radiation
16:30	<b>Oceane Blard:</b> Sponge metamorphosis uses conserved animal developmental mechanisms
16:45	<b>Alexandros Sotiropoulos:</b> First indication of structural homology and co-evolution of candidate effector proteins of diverse fungi that attack other fungi
17:00	
18:00	<b>Welcome drinks at Saint Lucy (Caffe e Cucina)</b>

# Australasian Evolution Society

Day 1st October	
Room 2	Time
Blomberg (Conference Host) - Welcome to Country Ceremony	9:00
Plenary Sara Philip of flagellar motility across the tree of life	9:15
<b>Morphological evolution. Chair: Bryan Fry</b>	
Carley Goodwin: A computational fluid dynamics (CFD) study exploring the effects of nasal passage morphology on respiratory airflow of bats (Rhinolophidae).	10:00
Liz Surovic: A comparative morphology study of blennies looking at the water to land transition	10:15
Ray Chatterji: Dietary specialization drives adaptation, convergence, and integration across the cranial and appendicular skeleton in Waterfowl (Anseriformes)	10:30
ng tea	10:45
<b>Sexual selection. Chair: Lucinda Aulsebrook</b>	
Andrea Piccinini: Buried alive: Post-copulatory behaviour of a Western Australian species of wishbone spider	11:15
Sanni Silvasti: Flashing signals and butterfly visual behaviour	11:30

<b>Vicky Ying:</b> Is parthenogenesis equivalent to inbreeding? Experimental evidence from a facultatively parthenogenetic stick insect	11:45
<b>Daniela Wilner:</b> Sex-resistant stick insects and their microscopic inhabitants: Could endosymbionts explain patterns of geographic parthenogenesis?	12:00
<b>Shay Hirani:</b> Scaling and developmental integration of a massively exaggerated secondary sexual sensory trait	12:15
<b>Snack</b>	12:30
<b>Various. Chair: Cynthia Riginos</b>	
<b>Manuel Poretti:</b> Genome evolution and adaptive potential of symbiotic algae <i>ostreobium</i> in coral bleaching recovery	13:30
<b>Tom Schmidt:</b> Dissecting new pest invasions with evolutionary genomics	13:45
<b>Jia Chang:</b> The distinct genomic evolution of <i>Serratia</i> symbionts in the redlegged earth mite	14:00
<b>Moshe Jasper:</b> Demography & selection in the <i>Aedes aegypti</i> invasion of the Asia-Pacific	14:15
<b>Janne Torkkola:</b> Mapping reproductive mode in Australian sphonomorphine skinks	14:30
<b>Don't drink tea</b>	15:00
<b>Speciation/Development/Various. Chair: Tahlia Fulton</b>	
<b>Kei-Lin Ooi:</b> Diversification in nymphalid butterflies: effects of sexual size dimorphism, conspicuousness and eyespots	15:30
<b>Byon Nongthongbam:</b> Genome size and TE content variation in a global invasive species	
<b>Owen Holland:</b> Revisiting the cytogenetics of the parthenogenic grasshopper <i>Warramaba virgo</i> with hybridisation and Next-generation sequencing	
<b>Iva Popovic:</b> Parallel adaptive admixture in a coral species triad	
<b>Jie Wang:</b> Reticulation patterns in Australian burrowing frogs <i>Neobatrachus</i>	
<b>Tsering Chan:</b> DNA methylation changes in response to infection by a co-evolved parasite in cane toads	16:45
<b>Sandie Degnan/Huifang Yuan:</b> Environmental regulation of cell state reprogramming revealed in ancient animal life cycles	
	(~1 hr)
<b>Location: (St. John's), Blair Drive, University of Queensland</b>	19:00

# University of

Day 2 Thursday	
Room 1	
	Housek
	ECR P Paul B Genomic structural variation drives
Plasticity. Chair: Dan Noble	
Jade Kannangara: The evolutionary implications of mitochondrial heteroplasmy	
Giulia Ghedini: Evolving with competitors: what do species maximise and what are the consequences for communities?	
Tahlia Fulton: Adaptive nutrition: Cross-protection by amino acid restriction	
	Morni
Nutrients, guts, antibiotics, immunity. Chair: Damian Dowling	
Yu-Pei Tseng: The impact of resource fluctuations on coexistence in a gut microbial community	
Alistair Senior: The effects of macronutrients on age-specific mortality. A replicable effect!	

<b>Christopher Brown:</b> Optimising antibiotic, resource covariance and frequency to minimise resistance evolution
<b>Alicia Williams:</b> What does it cost to resist antibiotics? The fitness landscape of rifampicin mutations
<b>Sandie Degnan:</b> Host-symbiont recognition underpins the origin of animal innate immunity
Lunch
<b>Conservation/Phylogenetics. Chair: Giulia Ghedini</b>
<b>Matthew Silcocks:</b> Retracing the stepwise evolution of a deadly human pathogen using ancestral sequence reconstruction
<b>Kamryn Carter:</b> Genomic management of a captive breeding program of endangered Southern Stuttering Frogs ( <i>Mixophyes australis</i> )
<b>Zenon Czenze:</b> Bridging the gap: combining thermal physiology, ecology and biophysics for conservation
<b>Patra Petrohilos:</b> When Cells Rebel: using comparative genomics to investigate cancer susceptibility in marsupials
<b>Anupama Nayak:</b> A global comparative analysis links PFAS contamination with marine fish functional traits
Afternoon
<b>Flash Talks (various topics)</b>
Thomas Veldhuis; Apoorva Gopinath; Samuel Ingloff-Richards; Andres Pöndel; Rendall; Peisong Tian; Diana Fisher; Avantika Sharma; Angi De Silva; Matthew
Zoe Kean: How to become a g
Dinner at The Burrow, 52

# Queensland

<b>y 2nd October</b>	
<b>Room 2</b>	<b>Time</b>
keeping	9:00
lenary tattlay rapid adaptation in invasive plants	9:15
<b>Sexual selection. Chair: ????????</b>	
<b>Mathilde Le Levier:</b> The role of iridescent colours in butterfly sexual selection	10:00
<b>Taylor Hosler:</b> Thermal plasticity of sexually and naturally selected traits and the influence on adaptation.	10:15
<b>Hyoseul Hyun:</b> How sex differences balance genome-wide fitness of facultative asexual organisms?	10:30
ng tea	10:45
<b>Morphological evolution/speciation. Chair: Kris Wild</b>	
<b>Putter Tiatragul:</b> Evolution of Australia's endemic diplodactylid geckos	11:15
<b>David Brito:</b> Insights on the evolution of skull shape in Australian fossorial elapids	11:30

<b>Ammresh:</b> How would a snake wear a tie? Regionalisation within the elapid vertebral column	11:45
<b>Sam Campbell:</b> Heavy Metal Predators: diverse patterns of metal enrichment in scorpion weapons	12:00
<b>Kenzie Melanson:</b> Comparison of sperm availability in hybridizing male <i>Fundulus heteroclitus</i> and <i>F. diaphanus</i> in Porters Lake, Nova Scotia, Canada	12:15
unch	12:30
<b>Tag Team Talk. Lead: Daniel Ortiz-Barrientos</b>	
15m <b>Daniel Ortiz-Barrientos:</b> Ecotypes as natural experiments: the making of adaptive traits in <i>Senecio</i> 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 ABBA-BABA 10m <b>Maddie James:</b> When does local adaptation lead to reproductive isolation? 5m <b>Aparna Thulaseedharan:</b> Leveraging local adaptations for crop improvement: the future from the past 5m <b>Charles Zhou:</b> Making the Most of Less in Imputation for Non-Model Species 15m Questions	13:30
oon tea	14:30
s). Chair: Damien Esquerre	
orras; Claire Larroux; Tina Wu; Arlie Macdonald; Emma Holvast; Jackson threw Baker	
great science communicator	
Russell Street, West End	



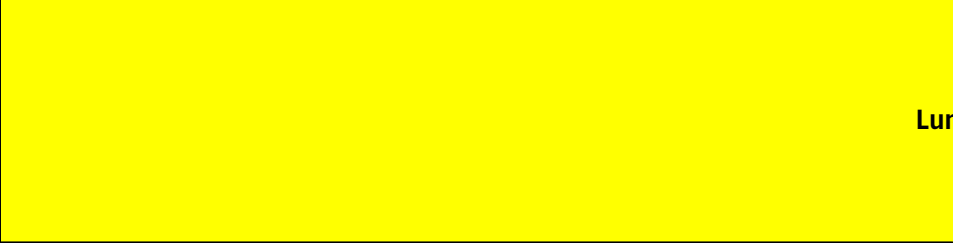
# Brisbane, Qld, 2025

Day 3 Friday	
Room 1	
	Housek
	ECR P Kristoff Climate change and the cost-of
Sociality/Development/Macroeolution. Chair: Tom Schmidt	
Maxim Adams: Behavioural island syndrome in the Lord Howe Island cockroach Panesthia lata	
Sonnie Flores: Roars, rumbles, and resonance: A systematic review and meta-analysis of crocodilian acoustic signals	
Bernie Degnan: Origin of the regulatory genome	
	Morni
Venom. Chair: Dan Hoops	
Bryan Fry: Make acetylcholine great again! Predators and prey of venomous snakes convergently evolved multiple types of neurotoxin-proof neuromuscular receptors	
Lorenzo Seneci: Convergent yet divergent evolutions of two novel procoagulant venom phenotypes nested within North American anticoagulant rattlesnakes	

**Kat Kempson:** Clinical implications of regional variations in coagulotoxic effects and antivenom efficacies for Swiss Alps populations of *Vipera aspis* (Asp Viper)

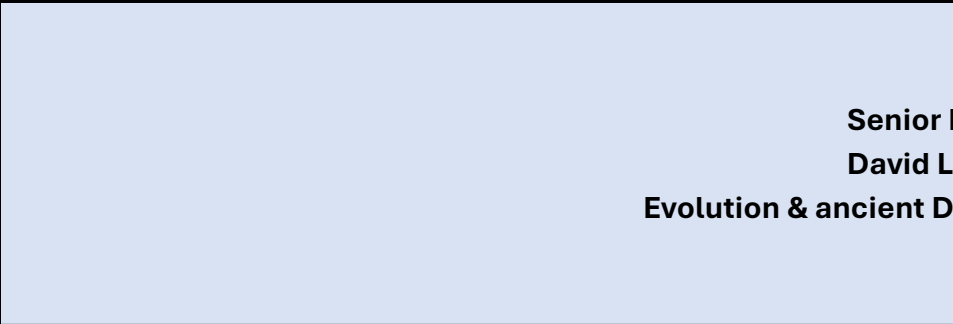
**Kate Jordan:** Clinical implications of dramatic ontogenetic shifts in Yellow Beard (Bothrops atrox) venom activation of blood clotting factors

**Patrick Champagne:** Factor Va as an obligate cofactor as the missing key to understanding viper venom procoagulation toxicity

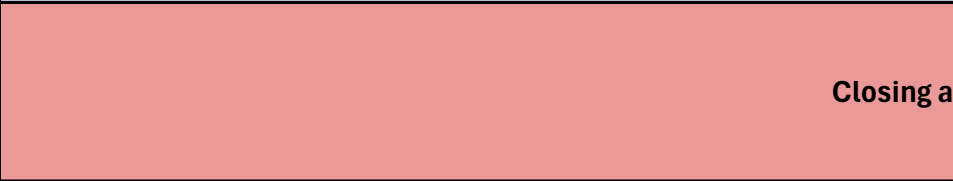


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**Chair: Simone Blomberg**



Senior I  
David L  
Evolution & ancient D



Closing a

## 3rd October

### Room 2

keeping

lenary

er Wild

-living squeeze in desert lizards

**Plasticity. Chair: Erin Macartney**

**Russell Bonduriansky:** Born old: Transmission of ageing from mothers to offspring

**Dan Noble:** Limited plasticity but increased variance in physiological rates across ectotherm populations under climate change

**Andre Nogueira Alves:** How naturally occurring insecticide resistance alleles lead to broader colonizing opportunities in *D. melanogaster*

ng tea

**Various. Chair: Cynthia Riginos**

**Lucinda Aulsebrook:** Warming temperatures induce severe spinal deformities and mortality in highly successful tropical invader, *Gambusia holbrooki*

**Fabian Ruperti:** The ocean in me - Molecular profiling of sponge movement reveals an ancient relaxant-inflammatory response

**Jeremias Ivan:** Selecting window sizes for phylogenomic analyses of whole genome alignments

**Samantha Howitt:** Mixed up Mytilus: contrasting outcomes of hybridisation in admixed populations

**Zoe Meziere:** Repeatability and predictability of local (mal)adaptation under climate change

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Plenary  
ambert  
NA: People and ideas

nd Prizes