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

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

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lay 1st October	
Room 2	**Time**
lomberg (Conference Host) - Welcome to Country Ceremony	9:00
lenary **Sara Philip** **of flagellar motility across the tree of life**	9:15
Morphological evolution. Chair: Bryan Fry	
Carley Goodwin: A computational fluid dynamics (CFD) study exploring the effects of nasal passage morphology on respiratory airflow of bats (Rhinolophoidea).	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
Sexual selection. Chair: Lucinda Aulsebrook	
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

Vicky Ying: Is parthenogenesis equivalent to inbreeding? Experimental evidence from a facultatively parthenogenetic stick insect	11:45
Daniela Wilner: Sex-resistant stick insects and their microscopic inhabitants: Could endosymbionts explain patterns of geographic parthenogenesis?	12:00
Shay Hirani: Scaling and developmental integration of a massively exaggerated secondary sexual sensory trait	12:15
ıch	12:30
Various. Chair: Cynthia Riginos	
Manuel Poretti: Genome evolution and adaptive potential of symbiotic algae ostreobium in coral bleaching recovery	13:30
Tom Schmidt: Dissecting new pest invasions with evolutionary genomics	13:45
Jia Chang: The distinct genomic evolution of Serratia symbionts in the redlegged earth mite	14:00
Moshe Jasper: Demography & selection in the Aedes aegypti invasion of the Asia-Pacific	14:15
Janne Torkkola: Mapping reproductive mode in Australian sphenomorphine skinks	14:30
ɔon tea	15:00
Speciation/Development/Various. Chair: Tahlia Fulton	
Kei-Lin Ooi: Diversification in nymphalid butterflies: effects of sexual size dimorphism, conspicuousness and eyespots	15:30
Byon Nongthongbam: Genome size and TE content variation in a global invasive species	
Owen Holland: Revisiting the cytogenetics of the parthenogenic grasshopper Warramaba virgo with hybridisation and Next-generation sequencing	
Iva Popovic: Parallel adaptive admixture in a coral species triad	
Jie Wang: Reticulation patterns in Australian burrowing frogs Neobatrachus	
Tsering Chan: DNA methylation changes in response to infection by a co-evolved parasite in cane toads	
Sandie Degnan/Huifang Yuan: Environmental regulation of cell state reprogramming revealed in ancient animal life cycles	16:45 (~1 hr)
ina), Blair Drive, University of Queensland	19:00

University of

Day 2 Thursda
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!

Christopher Brown: Optimising antibiotic, resource covariance and frequency to minimise resistance evolution

Alicia Williams: What does it cost to resist antibiotics? The fitness landscape of rifampicin mutations

Sandie Degnan: Host-symbiont recognition underpins the origin of animal innate immunity

Lur

Conservation/Phylogenetics. Chair: Giulia Ghedini

Matthew Silcocks: Retracing the stepwise evolution of a deadly human pathogen using ancestral sequence reconstruction

Kamryn Carter: Genomic management of a captive breeding program of endangered Southern Stuttering Frogs (Mixophyes australis)

Zenon Czenze: Bridging the gap: combining thermal physiology, ecology and biophysics for conservation

Patra Petrohilos: When Cells Rebel: using comparative genomics to investigate cancer susceptibility in marsupials

Anupama Nayak: A global comparative analysis links PFAS contamination with marine fish functional traits

Afterno

Flash Talks (various topics

Thomas Veldhuis; Apoorva Gopinath; Samuel Ingloff-Richards; Andres Po Rendall; Peisong Tian; Diana Fisher; Avantika Sharma; Angi De Silva; Matt

Zoe Kean: How to become a g

Dinner at The Burrow, 52

Queensland

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

Ammresh: How would a snake wear a tie? Regionalisation within the elapid vertebral column	11:45
Sam Campbell: Heavy Metal Predators: diverse patterns of metal enrichment in scorpion weapons	12:00
Kenzie Melanson: Comparison of sperm availability in hybridizing male Fundulus heteroclitus and F. diaphanus in Porters Lake, Nova Scotia, Canada	12:15
ıch	12:30
Tag Team Talk. Lead: Daniel Ortiz-Barrientos	
15m **Daniel Ortiz-Barrientos:** Ecotypes as natural experiments: the making of adaptive traits in Senecio 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 of ABBA-BABA 10m **Maddie James**: When does local adaptation lead to reproductive isolation? 5m **Aparna Thulaseedharan**: Leveraging local adaptations for crop improvement: the future from the past 5m **Charles Zhou**: 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 thew 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/Macroevolution. 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 crocodylian 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

Lur

Chair: Simone Blomberg

Senior
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