AES 2025 Day 2

9:00	Housekeeping	
9:15	ECR Plenary Paul Battlay Genomic structural variation drives rapid adaptation in invasive plants	
	Room 1	Room 2
	Plasticity. Chair: Dan Noble	Sexual selection. Chair: Ian Brennan
10:00	Jade Kannangara: The evolutionary implications of mitochondrial heteroplasmy	Mathilde Le Levier: The role of iridescent colours in butterfly sexual selection
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.
10:30	Tahlia Fulton: Adaptive nutrition: Cross-protection by amino acid restriction	Hyoseul Hyun: How sex differences balance genome-wide fitness of facultative asexual organisms?
10:45	Morning tea	
	Nutrients, guts, antibiotics, immunity. Chair:	Morphological evolution/speciation. Chair: Kris
	Damian Dowling	Wild
11:15	Yu-Pei Tseng: The impact of resource fluctuations on	Putter Tiatragul: Evolution of Australia's endemic
11.10	coexistence in a gut microbial community	diplodactylid geckos
11:30	Alistair Senior: The effects of macronutrients on age-specific	David Brito: Insights on the evolution of skull shape in
	mortality. A replicable effect!	Australian fossorial elapids
11:45	Christopher Brown: Optimising antibiotic, resource	Ammresh: How would a snake wear a tie? Regionalisation
	covariance and frequency to minimise resistance evolution Alicia Williams: What does it cost to resist antibiotics? The	within the elapid vertebral column Sam Campbell: Heavy Metal Predators: diverse patterns of
12:00	fitness landscape of rifampicin mutations	metal enrichment in scorpion weapons
	nuress tandscape of manipient matations	Kenzie Melanson: Comparison of sperm availability in
12:15		hybridizing male Fundulus heteroclitus and F. diaphanus in
12.10		Porters Lake, Nova Scotia, Canada
12:30	Lunch	
	Conservation/Phylogenetics. Chair: Giulia Ghedini	Tag Team Talk. Lead: Daniel Ortiz-Barrientos
	Matthew Silcocks: Retracing the stepwise evolution of a	15m Daniel Ortiz-Barrientos: Ecotypes as natural
13:30	deadly human pathogen using ancestral sequence	experiments: the making of adaptive traits in Senecio
	reconstruction	5m Jack Price: Defining complexity as an evolvable trait
40.45	Kamryn Carter: Genomic management of a captive breeding	12m Zoe Broad : The role of gene expression during
13:45	program of endangered Southern Stuttering Frogs (Mixophyes	adaptation 5m Yulin Sun: Evaluating gene flow inference with forward
	australis)	simulations: A case study of ABBA-BABA
14:00	Zenon Czenze: Bridging the gap: combining thermal	10m Maddie James: When does local adaptation lead to
<u> </u>	physiology, ecology and biophysics for conservation	reproductive isolation?
14:15	Patra Petrohilos: When Cells Rebel: using comparative genomics to investigate cancer susceptibility in marsupials	5m Aparna Thulaseedharan : Leveraging local adaptations for crop improvement: the future from the past

14:30	Anupama Nayak: A global comparative analysis links PFAS contamination with marine fish functional traits 5m Charles Zhou: Making the Most of Less in Imputation for Non-Model Species 15m Questions	
15:00	Afternoon tea	
	Flash Talks (various topics). Chair: Damien Esquerre	
15:30	Thomas Veldhuis; Apoorva Gopinath; Andres Porras; Claire Larroux; Tina Wu; Arlie Macdonald; Emma Holvast; Jackson Rendall; Peisong Tian; Diana Fisher; Avantika Sharma; Angi De Silva; Matthew Baker	
16:45		
(~1 hr)	Zoe Kean: How to become a great science communicator	
19:00	Dinner at The Burrow, 52 Russell Street, West End	