



Australasian Evolution Society

University of Western Australia

Perth, WA 2024

Day 1 Wednesday 4th December			Day 2 Thursday 5th December			Day 3 Friday 6th December		
Time	Room 1	Room 2	Time	Room 1	Room 2	Time	Room 1	Room 2
9:00	Welcome - AES President Emma Sherratt and Vice-President Renée Firman		9:00	Housekeeping		9:00		
9:15	ECR Plenary		9:15	ECR Plenary		9:15	AGM	
9:30	Sara Ryding		9:30	Maddie James		9:30		
9:45	Long- and short-term responses to climate change in body and appendage size of diverse Australian birds		9:45	Uncovering the genetic architecture of parallel evolution		9:45		
Thermal tolerance/climate change. Chair: Bob Wong			Taxonomy/phylogenetics. Chair: Emma Sherratt			Plasticity. Chair: Jon Evans		
10:00	Christian Mirth - Stressful interactions: how does genetic variation shape plastic responses to combined thermal and nutritional stress?	Rhianon Schembri - Gene expression divergence in <i>Poephila</i> finches	10:00	Kenny Travoouillon - New Fossil Koala (<i>Marsupialia: Phascolarctidae</i>) from the Pliocene of Western Australia	Genevieve Law - Mutation rate and mito-nuclear co-adaptation in the unusual duplicated mitogenomes of Australasian stingless bees (<i>Apidae: Meliponini</i>)	10:00	Erin Macartney - Macronutrient balance on brown adipose tissue function in fathers and non-genetic inheritance in offspring	Jennifer Evans - Genomic evidence for inbreeding depression in an endangered Australian bird
10:15	Mid Tangfulu Haque - Seasonal plasticity of thermal tolerance indicates resilience to future climate in Australian damselfishes	Lucy Ockert - Preliminary insights into the Population Structure and Connectivity of Little Penguins in Australia	10:15	Cameron Dodd - Cryptic Kullarn: Two new species of dayusrid marsupial	Kathleen McLay - Chromosomal inversions facilitate adaptive evolution in a native Australian wildflower	10:15	Aidan Stuckey - Sex, Genetics, and Plasticity in Allometry	Petra Petrosilos - When Cells Rebel: a comparative genomics investigation into marsupial cancer susceptibility
10:30	Greg Walter - Small-scale geographic variation maintains adaptive genetic variation in thermal tolerance	Kate Cooper - How does hybridisation affect the phenotypic variability of parthenogens?	10:30	Emma Holvast - Do Morphometric Data Improve Phylogenetic Reconstruction? A Systematic Review and Assessment	Rowan Lymbery - Adaptation to climate change via range shifts and genetic evolution in a global biodiversity hotspot	10:30	Maria Favero - Phenanthrene pollution disrupts behavioural individuality and plasticity in the brine shrimp <i>Artemia franciscana</i>	Ben Phillips - Genetic Allee effects for containment of invasive species
10:45	Morning tea		10:45	Morning tea		10:45	Morning tea	
11:00			11:00			11:00		
Microbial evolution/resistance. Chair: Mike McDonald			Sexual selection/reproduction. Chair: Natasha LeBas			Behaviour/development. Chair: Alistair Senior		
11:15	Storrie de Scally - Coevolution leads to increased resistance to invasion	Neil Balchan - Investigating lineage and venom diversification in two medically important snake clades	11:15	Rhianon Eastment - The evolutionary genetics of mouthbrooding in African cichlids	Emily Belcher - Temperature and the progression of developmental milestones in embryogenesis	11:15	Antonio Rayos - Another case of morphological reduction in the large hepatic family <i>Lepidostomatidae</i> shown by <i>Meisungeria</i>	Manuel Poretti - Beyond centromeres: the role of pericentromeric transposable elements in chromosome evolution
11:30	Christopher Blake - Ecosystem in a bottle: Experimental evolution of a multi-trophic microcosm	Damien Esquerre - Museum Venomics Opens a Window to Understanding Snake Evolution	11:30	Aadhikeshav Ramkumar - Empirical evidence for mating status-dependent choosiness in <i>Drosophila melanogaster</i>	Anne Aulsebrook - Sleepless on the tundra: costs and benefits of extreme activity in a polygynous shorebird	11:30	Jeremy Wilson - Correlation with a limited set of behavioral niches explains the convergence of somatic morphology in mygalomorph spiders	Alexandros Georgios Sotiropoulos - Lichen metagenomes reveal highly complex micro-environments
11:45	Soffi Kei Kei Law - Exploiting trade-off to delay the evolution of antibiotic resistance	Simone Blomberg - The Botanist, The Spin-Doctor, The Wiener Sausage and the Museum of All Possible Shells	11:45	Hyoseul Hyun - Another cost of sex: Is the frequency of sex linked to changes in male and female quality?	Katherine H. McLean - Death and Dying in Genus <i>Pan</i> : A Comparative Evolutionary Perspective	11:45	Sarin Tiatragul - Vertebrate number evolution in Australian blindsnakes	Liang Lu - Transcriptomic and Epigenomic Changes Driving Freshwater Adaptation in Sticklebacks
12:00	Athava Bhilde - Nitrogen availability shapes microbial community evolution on plant roots	Matthew Symonds - Differences between appendages in the regulation of heat loss: implications for body shape evolution in response to climate change	12:00	Ashley Potter - Ejaculate Volumes Exceed Female Tracts Across Metazoans	Edward Galluccio - The relationship between cognitive performance and anti-predator behaviour in the Western Australian magpie	12:00	Boikhuso Lerato Rapala - Environmental change and the evolution of body colouration in the ornate dragon, <i>Ctenophorus ornatus</i>	Richard Edwards - Depth-based correction of gene duplications and losses in genome assemblies
12:15	Sarah Hurley - Experimental Evolution of Nitrogen-fixing Bacteria on the Plant Root		12:15	Vayani Aboysinghe - Shifting pathogen landscapes: Understanding the effects of host sex ratio on disease dynamics	Michael Kasumovic - What affects generosity in a multiplayer iterated prisoner's dilemma?	12:15	Nuttakorn Taewcharoen - Intraspecific variation pattern of vertebrate in leopards with gradient of locomotive ability	Keiton Cheung - TBC
12:30	Lunch		12:30	Lunch		12:30	Lunch	
12:45			12:45			12:45		
13:00			13:00			13:00		
13:15			13:15			13:15		
Sexual selection. Chair: Samuel Lymbery			Speciation/conservation. Chair: Putter Tiatragul			Behaviour/sociality. Chair: Renee Firman		
13:30	Daisuke Kyogoku - Experimental evolution of sexual selection on <i>Callosobruchus chinensis</i>	Robert Dugand - Using inbreeding to test the contribution of non-additive genetic effects to additive genetic variance	13:30	Monique Van Dorssen - A lonely worm genome in a rapidly changing environment	Eleanor Moore - Impacts of a widespread pharmaceutical pollutant on cognition in fish	13:30		
13:45	Diego Solano Brenes - Does weapon size matter in bulb mites during intrasexual competition?	Christopher Barker - It's not the size that matters, it's how you use it: Questioning the link between body mass and longevity	13:45	Linette Umbrello - Evolution of the world's smallest marsupials (<i>Dasyuridae: Plagiatus</i>)	Samuel Lymbery - Ants and the science of war	13:45		
14:00	Jackson Rendall - Genomic evidence of polygamy and paternity skew in the typhlopod spider <i>Blakistonia aurea</i>	Alistair Senior - Diet mixing and life-history traits: an integrated meta-analysis of mean-variance effects	14:00	Kamryn Carter - Hiding in plain sight: uncovering cryptic diversity in a hyper-arid desert gecko	Grace Blackburn - Investigating the relationship between physical cognitive tasks and a social cognitive task in a wild bird	14:00	Senior Plenary	
14:15	Incheol Shin - Impact of kinship and mate competition on male aggression in bulb mites	Matthew Hall - Infection differentially alters the pace and shape of ageing in males and females	14:15	Renee Catullo - The persistence of astonishingly old and naturally fragmented species in the SW peats	Lucy Southwell-Hamblby - Evolution of cuticular hydrocarbon profiles in <i>Myrmica</i> (bull-ant) species	14:15	Natalie Warburton	
14:30	Joseph Tomkins - The need to breed: a test of the null model for polyandry	Tahira Fulton - Gene x Diet Interactions and Lifespan	14:30	Shengyao Lin - Conservation genetic management of the Northern Territory's only threatened frog: the short range endemic Howard Springs Toadlet (<i>Uperoleia daviesae</i>)	Stephanie Mason - Social magpies learn faster; how social complexity influences vocal ontogeny in the Western magpie	14:30	How to build a kangaroo	
14:45	Bruno Buzatto - Sigmoid allometries generate male dimorphism in secondary sexual traits		14:45	Afternoon tea		14:45	Closing and Prizes	
15:00	Afternoon tea		15:00			15:00		
15:15			15:15	Flash Talks (various topics). Chair: Upama Aich		15:15		
Sexual selection. Chair: Joe Tomkins			Behaviour. Chair: Anne Aulsebrook					
15:30	Andrea Piccinini - Sexual selection, diversification and behavioural insights in the Australian wishbone spiders (genus <i>Anane</i>) in the Northern Jarrah Forest	Kate Fergusson - Impacts of long-term fluoxetine exposure on behaviour in fish	15:30	Jess Herbert - Are heatwaves a buzzkill? The effects of temperature on native bee behaviour and cognition	Lucinda Aulsebrook - Is sexual selection adaptive in warming environments	15:30		
15:45	Upama Aich - Disrupting the Balance: Long-term Effects of Pharmaceutical Pollution in Fish	Gabriel Mehlado - Effects of Antidepressant on Behaviours and Immune Responses of Fish	15:45	Lucas La Gull - Inferring ancestral foraging and locomotion traits to trace the evolution of hopping among marsupials: why do kangaroos hop?	Patricia Slatyer - Male dimorphism and kin recognition in egalitarian Australian sweat bees (<i>Halictidae: Hymenoptera</i>)	15:45		
16:00	Adam Bode - Sex differences in romantic love: An evolutionary perspective	Jack Manera - Drugs in a social setting: How pharmaceutical pollution affects the shoaling behaviour of fish	16:00	Jennifer Koley - Evolution of leaf mimicry in fruit-piercing moths	Sudeep Meena - The co-evolution of life-history traits and macronutrient appetites	16:00	Walk around botanical gardens	
16:15	Shiho Ozeki - Fish on the pill: Impact of a widespread pharmaceutical contaminant on the relationship between pre- and post-copulatory sexual traits in pygmy halfbeaks (<i>Dermogenys collettii</i>)	Marcus Michelangeli - Do pharmaceutical pollutants impact animal interactions and survival in the wild?	16:15	Annie Guillaume - Multiscale variables for nuanced insights into local adaptation		16:15		
16:30	Meng-Han Chung - Live longer or die young? Sex-specific responses to environmental fluctuations	Sebastian Hayden - Assessing aggregation preferences within <i>Rhizoglyphus echinopus</i>	16:30			16:30		
16:45			16:45	free time		16:45		
17:00			17:00			17:00		
17:15	Welcome drinks (location TBC)		17:15	ECR breakout		17:15	free time	
17:30			17:30			17:30		
17:45			17:45			17:45		
18:00			18:00			18:00	Dinner at Market Grounds	