

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 She	rratt and Vice-President Renée Firman	9:00	House	keeping	9:00		
9:15			9:15	ECR Plenary		9:15		
9:30	Sara F		9:30		e James	9:30	Annual Genera	Meeting (AGM)
9:45			9:45			9:45		
	Thermal tolerance/climate change. Chair: Bob Wong	Genomics/population genetics. Chair: Marcus Michelangeli		Taxonomy/phylogenetics. Chair: Emma Sherratt	Adaptation, Chair: John Whale		Plasticity. Chair: Jon Evans	Genomics. Chair: Rich Edwards
-	• • •	Genomics/population genetics. Chair: Marcus Michelangen	1		Genevieve Law - Mutation rate and mito-nuclear co-adaptation in the		•	
10:00	Christen Mirth - Stressful interactions: how does genetic variation shape plastic responses to combined thermal and nutritional stress?	Rhiannon Schembri - Gene expression divergence in Poephila finches	10:00	Kenny Travouillon - New Fossil Koala (Marsupialia: Phascolarctidae) from the Pleistocene of Western Australia	unusual duplicated mitogenomes of Australasian stingless bees (Apidae: Meliponini)	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 _n	Md Tangigul Haque - Seasonal plasticity of thermal tolerance indicates esilience to future climate in Australian damselflies	Lucy Ockert - Preliminary Insights into the Population Structure and Connectivity of Little Penguins in Australia	1.0110	Cameron Dodd - Cryptic Kultarr: Two new species of dasyurid marsupial	Kathleen McLay - Chromosomal Inversions facilitate adaptive evolution in a native Australian wildflower		Aidan Stuckey - Sex, Genetics, and Plasticity in Allometry	Patra Petrohilos - When Cells Rebel: a comparative genomics investigation into marsupial cancer susceptibility
10:30 _v	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	Marta Favero - Phenanthrene pollution disrupts behavioural individuality and plasticity in the brine shrimp Artemia franciscana	Ben Phillips - Genetic Allee effects for containment of invasive species
10:45	Morning tea		10:45	Morning tea		10:45 11:00	0:45 Morning to a	
	Microbial evolution/resistance. Chair: Mike McDonald	Macroevolution. Chair: Kenny Travouillon	150	Sexual selection/reproduction. Chair: Natasha LeBas	Behaviour/development. Chair: Alistair Senior		Morphological evolution. Chair: Damien Esquerre	Genomics. Chair: Renee Catullo
	Storme de Scally - Coevolution leads to increased resistance to invasion	Neil Balchan - Investigating lineage and venom diversification in two	11.45					Manuel Poretti - Beyond centromeres: the role of pericentromeric
		medically important snake clades		cichlids	milestones in embryogenesis	11:15	hepatic family Lepidoziaceae shown by Meinungeria	transposable elements in chromosome evolution
11:30	Christopher Blake - Ecosystem in a bottle: Experimental evolution of a nulti-trophic microcosm	Damien Esquerré - Museum Venomics Opens a Window to Understanding Snake Evolution	11:30	Aadhikesav Ramkumar - Empirical evidence for mating status-dependent choosiness in Drosophila melanogaster	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
	Soffi Kei Kei Law - Exploiting trade-off to delay the evolution of antibiotic esistance	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 Pan: A Comparative Evolutionary Perspective		Putter Tiatragul - Vertebra number evolution in Australian blindsnakes	Liang Liu - Transcriptomic and Epigenomic Changes Driving Freshwater Adaptation in Sticklebacks
	Atharva Bhide - 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		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		Boikhutso Lerato Rapalai - Environmental change and the evolution of body colouration in the ornate dragon, Ctenophorus ornatus	Richard Edwards - Depth-based correction of gene duplications and losses in genome assemblies
12:15 F	Sarah Hurley - Experimental Evolution of Nitrogen-fixing Bacteria on the Plant Root		12:15	Vayani Abeysinghe - 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 vertebrae in leporids with gradient of locomotive ability	Kelton Cheung - Does standing genetic variation contribute to local adaptation of cane toads in Australia?
12:30			12:30			12:30	Diana Fisher - The evolution of marsupial pouch opening direction	Jamie Botting - TBC
12:45			12:45			12:45		
13:00	Lu	nch	13:00		ınch	13:00		
13:15			13:15			13:15		nch
	Sexual selection. Chair: Samuel Lymbery	Life history/quantitative genetics. Chair: Mandy Ridley	10.10	Speciation/conservation. Chair: Putter Tiatragul	Behaviour/sociality. Chair: Jen Kelley	13.13	Lu	nen
	Daisuke Kyogoku - Experimental evolution of sexual selection on Callosobruchus chinensis	Robert Dugand - Using inbreeding to test the contribution of non-additive	40.00	Monique Van Dorssen - A lonely worm genome in a rapidly changing	Eleanor Moore - Impacts of a widespread pharmaceutical pollutant on	13:30		
13:30	Callosobruchus chinensis	genetic effects to additive genetic variance		environnent	cognition in fish			
13:45	Diego Solano Brenes - Does weapon size matter in bulb mites during ntrasexual 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 (Dasyuridae: Planigale)	Samuel Lymbery - Ants and the science of war	13:45		
14:00	ntrasexual competition? Jackson Rendall - Genomic evidence of polygamy and paternity skew in the rapdoor spider Blakistonia aurea	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
		Matthew Hall - Infection differentially alters the pace and shape of ageing in males and females	44.45		Lucy Southwell-Hambly - Evolution of cuticular hydrocarbon profiles in	14:15	Natalie V	Varburton
14:15 b	oulb mites	males and females	14:15	fragmented species in the SW peats	Myrmecia (bull-ant) species	14:15	How to build	l a kangaroo
	loseph Tomkins - The need to breed: a test of the null model for polyandry	Tahlia Fulton - Gene x Diet Interactions and Lifespan	1	Shengyao Lin - Conservation genetic management of the Northern Territory's only threatened frog; the short range endemic Howard Springs Toadlet (Uperoleia daviesae)	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 E	uno Buzatto - Sigmoid allometries generate male dimorphism in		14:45			14:45		
	econdary sexual traits			Aftern	oon tea		Closing	and Prizes
15:00	Afternoon tea		15:00			15:00		
15:15			15:15		pics). Chair: Upama Aich	15:15		
	Sexual selection. Chair: Joe Tomkins	Behaviour. Chair: Anne Aulsebrook	_	Lucinda Aulsebrook - Is sexual selection adaptive in warming environments Jennifer Kelley - Evolution of leaf mimicry in fruit-piercing moths				
	Andrea Piccinini - Sexual selection, diversification and behavioural insights in the Australian wishbone spiders (genus Aname) in the Northern Jarrah	Kate Fergusson - Impacts of long-term fluoxetine exposure on behaviour in	15:30			15:30		
F	Forest	fish Gabriel Melhado - Effects of Antidepressant on Behaviours and Immune	-	Jess Herbert - Are heatwaves a buzzkiii? The effects of temperature on native bee bel				
15:45 F	Pollution in Fish	Responses of Fish Jack Manera - Drugs in a social setting: How pharmaceutical pollution affects	15:45	ucas Le Gall - Inferring ancestral foraging and locomotion traits to trace the evolution of hopping among marsupials: why do kangaroos hop? sudeep Mena - The co-evolution of life-history traits and macronutient appetible. Additional States - Make dimorphism and kin recognition in eqailitarian Australian sweat bees (Halictidae: Hymenoptera)		15:45		
16:00	Adam Bode - Sex differences in romantic love: An evolutionary perspective	the shoaling behaviour of fish	16:00	Danelle van den Berg - TBC		16:00	Walk around be	otanical gardens
		Marcus Michelangeli - Do pharmaceutical pollutants impact animal	16:15	free time		16:15		
16:15 c	Shiho Ozeki - Fish on the pill: impact of a widespread pharmaceutical contaminant on the relationship between pre- and post-copulatory sexual raits in pygmy halfbeaks (Dermogenys collettei)	interactions and survival in the wild?	1			40.00		
16:15 c		interactions and survival in the wild? Sebastian Hayden - Assessing aggregation preferences within Rhizoglyphus echinopus	16:30			16:30		
16:15 d	contaminant on the relationship between pre- and post-copulatory sexual raits in pygmy halfbeaks (Dermogenys collettei) Meng-Han Chung - Live longer or die young? Sex-specific responses to		16:30			16:30		
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