

Day 1 Program - Wednesday 6th September

Chair	Presenter	Title <i>(click to go directly to abstract)</i>	Start Time			Session
			AEST	ACST	AWST	
	Alistair Legione	Welcome to MicroSeq 2023 Day 1	10:30	10:00	8:30	
Jacqui Morris	P Monica Kehoe	High throughput sequencing to support new diagnostic development	10:45	10:15	8:45	1.1
	M Ben Vezina	Rethinking the microbial ecology and evolutionary strategy of <i>K. pneumoniae</i> in the context of metabolism	11:15	10:45	9:15	
Morning Tea Break (GatherTown Open)			11:30	11:00	9:30	
Jackie Mahar & Ryan Wick	M Rhys White	Whole-genome sequencing of <i>Chlamydia psittaci</i> from Australasian avian hosts: A genomics approach to a pathogen that still ruffles feathers	12:00	11:30	10:00	1.2
	M Bronwyn Campbell	Who is eating coal in situ: Deep biosphere carbon cycling in terrestrial subsurface coal seams	12:15	11:45	10:15	
	L Nonthakorn (Beatrice) Apirajakamol	The Super Hungry Caterpillars: Safeguard Australia's Crop from the Fall Armyworm Caterpillars through Fungal Genome				
	L Ashleigh Porter	How can we estimate the number of host-switching events in zoonotic viruses?	12:30	12:00	10:30	
	L George Bouras	Plassembler: an automated bacterial plasmid assembly tool				
	L Rachel Rollo	Transcriptional signatures of wollamide cyclic hexapeptides reveal shared responses				
Lunchtime Break (GatherTown Open)			13:00	12:30	11:00	
Ashley Dungan	P Steven Robbins	Making the most of marine metagenomes - beyond prokaryotic MAGs	14:00	13:30	12:00	
Asad Prodhan & Ben Vezina	M Samriddhi Thakur	The Victorian Virchow Voyager: Exploring the population dynamics and virulence determinants of <i>Salmonella</i> Virchow prevalent in Victoria, Australia	14:30	14:00	12:30	1.3
	M Ghais Houtak	The Intra-Host Evolutionary Landscape and Pathoadaptation of Persistent <i>Staphylococcus aureus</i> in Chronic Rhinosinusitis	14:45	14:15	12:45	
Afternoon Tea Break (GatherTown Open)			15:00	14:30	13:00	
Ellen de Vries & Catherine Dawson	M Kshitij Tandon	Using Metatranscriptomics to reveal compartment specific functional potential of the reef-building coral <i>Porites lutea</i>	15:30	15:00	13:30	1.4
	M Myo Naung	Characterizing the gut archaeome in large human population cohorts	15:45	15:15	13:45	
	M Ethan Wyrsh	<i>Escherichia coli</i> in the Australian Silver Gull host ColV-like plasmids encoding serine protease autotransporter Sha	16:00	15:30	14:00	
	L Camila Gazolla Volpiano	Asymptomatic carriage of bacterial pathogens and antimicrobial resistance genes in the gut microbiome of healthy people				
	L Qin Qi	Uncovering bacterial hosts of class 1 integrons with a single-cell fusion-PCR technology	16:15	15:45	14:15	
	L Karolina Mercoulia	Generating Strain Level, Shiga toxin-producing <i>Escherichia coli</i> Metagenome Assembled Genomes for Public Health Surveillance				
	L Jonathon Mifsud	Identification of a novel papillomavirus from a New Zealand fur seal with oral papilloma-like lesions				
	Cameron Reid	Closing remarks for Day 1	16:45	16:15	14:45	

Plenary talk (P), Medium talk (M), Lightning Talk (L)

Day 2 Program - Thursday 7th September

Chair	Presenter	Title <i>(click to go directly to abstract)</i>	Start Time			Session
			AEST	ACST	AWST	
	Rebecca Roach	Welcome to MicroSeq 2023 Day 2	10:30	10:00	8:30	
Claire Gorrie	P	Francesca Short	Functional genomics reveals mechanisms and collateral damage of common disinfectants			2.1
	M	Leah Roberts	RoundHound: detecting plasmid transmission from short-read datasets			
Morning Tea Break			11:20	10:50	9:20	
Briony Joyce & Rubaiyea Farrukee	M	Pauline Getanda	Impact of intrapartum azithromycin on carriage of macrolide resistance determinants and genetic diversity of <i>Escherichia coli</i> isolated from infants			
	M	Daniel Mcknight	Detection and characterisation of four novel <i>Xanthomonas</i> species			
	L	Wyamma Wirth	McCoy: A complete workflow for close-to-real-time phylodynamic analyses			2.2
	L	Georgia Breckell	Fast high-resolution plant pathogen identification through multiplexed PCR and HTS			
	L	Katia Taylor	Using meta-omics to characterise the stubble-associated degradative microbiome			
	L	Wei-Shan Chang	Revealing the virome diversity of wild mice in Australia using meta-transcriptomics			
Lunch			Lunch Break			
			12:30	12:00	10:30	
Zahra Islam & Turgut Aktepe	M	Jia Qi Beh	Characterising the genetic context of linezolid resistance genes in clinical <i>Enterococcus</i> spp. from Victoria, Australia			
	M	Maria Jenckel	Meta-transcriptomic identification of novel lagomorph hepaciviruses via pathogen profiling in North American Lagomorphs			
	L	Berenice Della Porta	Making sense of soil health: is microbial trait-based ecology a way forward?			
	L	Susan Noonan	Using Whole Genome Sequencing to determine species boundaries in <i>Enterobacter Cloacae</i> Complex: the key to diagnosing this bacterial group			2.3
	L	Warasinee Mujchariyakul	Exploring the molecular signatures of <i>Staphylococcus aureus</i> transition into human serum using multi-omics analysis			
	L	Menxiong Wu	Anaerobic oxidation of propane coupled to nitrate reduction by a lineage within the class <i>Symbiobacteriia</i>			
Break			Afternoon Tea Break			
			14:30	14:00	12:30	
Ashleigh Porter & Siobhon Egan	M	Md Mozammel Hoque	Genetic and transcriptional signatures associated with enhanced intra-cellular survival of prey bacteria inside a protozoan host			
	M	Julieta Nazareth Gamboa-Cutz	Microbial community and greenhouse gas fluxes from subtropical wetland soils			
	L	Natalie Klukowski	Understanding the virome and microbiome of the Australia's most endangered psittacine parrots			2.4
	L	Munazzah Maqbool	Population structure, serotype distribution and resistance mechanisms of third-generation cephalosporin-resistant <i>E. coli</i> in Australia			
	L	Tanya Laird	Isolation and molecular characterization of <i>Streptococcus equi</i> subspecies <i>zooepidemicus</i> associated with systemic disease in Australian swine			
Break			Afternoon Tea Break			
			15:45	15:15	13:45	
Robyn Hall	P	Subir Sarker	Next-generation sequencing: Challenges and opportunities in investigating infectious diseases in animals			2.5
	Rhys Parry	Prizes and Closing remarks for Day 2	16:30	16:00	14:30	

Plenary talk (P), Medium talk (M), Lightning Talk (L)