

NZMS CONFERENCE 2023 PROGRAMME

Monday 20 November	
14:00	Student Oral Competition – 3-min talks
14:15	
14:30	
14:45	
15:00	
15:15	
15:30	
15:45	
16:00	
16:15	
16:30	
16:45	
17:00	Official Welcome
17:15	INFLUENCE OF DIETARY FIBER AND FAT ON GUT MICROBIOME RESILIENCE TO DISTURBANCE, CLOSTRIDIoidES DIFFICILE PATHOGENESIS, AND METABOLIC AND INFLAMMATORY PHENOTYPES IN HIV INFECTION Opening Plenary – Catherine Lozupone
17:30	
17:45	
18:00	
18:15	Social Mixer
18:30	
18:45	
19:00	
19:15	
19:30	Student Function
19:45	
20:00	
20:15	

NZMS CONFERENCE 2023 PROGRAMME

Tuesday 21 November			
	LT1	LT2	LT3
7:00	Technicians' Breakfast		
7:15			
7:30			
7:45			
8:00			
8:15			
8:30	GROUP A STREPTOCOCCUS UPSURGE: TURNING THE TOWN RED? Plenary - Shiranee Sriskandan		
8:45			
9:00			
9:15			
9:30	A NOVEL SUBSTRATE FOR NITRIFICATION BY COMPLETE AMMONIA OXIDIZERS (COMAMMOX) Invited - Holger Daims (online)	COMPARATIVE GENOMICS UNCOVERED DIFFERENCES BETWEEN CLINICAL AND ENVIRONMENTAL POPULATIONS OF VIBRIO PARAHAEMOLYTICUS IN NEW ZEALAND Invited - Sinisa Vidovic	PRECLINICAL ASSESSMENT OF A NON-M PROTEIN GROUP A STREPTOCOCCAL VACCINE DEMONSTRATING PROTECTIVE EFFICACY IN THE NON-HUMAN PRIMATE MODEL OF PHARYNGITIS. Invited - Mark Walker
9:45			
10:00	HOW DOES THE SOIL MICROBIAL COMMUNITY ASSOCIATED WITH LOPHOMYRTUS BULLATA RESPOND TO MYRTLE RUST DISEASE? Mahajabeen Padamsee [ME]	INACTIVATION OF VIBRIO PARAHAEMOLYTICUS ON SEAFOOD PROCESSING SURFACES USING ELECTROLYSED WATER Roland Taylor [FPH]	EXPRESSION OF THE STREPTOCOCCAL BACTERIOCIN DYSGALACTICIN AND RELATED PROTEINS IN ESCHERICHIA COLI Nicholas Heng [MM]

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NZMS CONFERENCE 2023 PROGRAMME

Tuesday 21 November (continued)

	LT1	LT2	LT3
10:15	USING PSA TO UNDERSTAND HOW PLANT PATHOGENS EVOLVE DURING HOST INFECTION Lauren Hemara [ME]	VIBRIO AS A CAUSE OF A HUMAN-GASTROINTESTINAL INFECTION ASSOCIATED WITH A SEAFOOD DINNER Jens Andre Hammerl [FPH]	EMERGING ANTIMICROBIAL BIOMATERIALS Viji Sarojini [MM]
10:30	Morning Tea		
10:45			
11:00	DISTINCT PATHWAYS FOR FUNGAL AND BACTERIAL COMMUNITY TRANSMISSION OF THE FLORAL MICROBIOTA OF MĀNUKA Justine Larrouy [ME]	RECOMBINASE POLYMERASE AMPLIFICATION (RPA) - A SOLUTION FOR BETTER MICROBIAL DETECTION Alka Batra [FPH]	ANTIBIOFILM ACTIVITY OF NOVEL POLYMYXIN B ANALOGUES James Willoughby [MM]
11:15	HOW GRAZING MODIFIES THE SOIL MICROBIAL COMMUNITY UNDER ELEVATED CARBON DIOXIDE Freya Newton [ME]	ISOLATION OF FREE-LIVING PROTOZOA FROM CANTERBURY GROUNDWATER AND TESTING OF ABILITY TO CONSUME LEGIONELLA Sujani Ariyadasa [FPH]	BOVINE LACTOFERRIN ENHANCES ANTIBIOTIC KILLING OF STAPHYLOCOCCUS AUREUS Simon Swift [MM]
11:30	MICROBIAL STRUCTURE AND FUNCTIONAL POTENTIAL OF KAURI (AGATHIS AUSTRALIS) SOILS Praveenth Lawrence [ME]	A LONGITUDINAL STUDY OF EXTENDED-SPECTRUM BETA-LACTAMASE-PRODUCING ENTEROBACTERIALES FROM FRESHWATER SITES OF CONTRASTING LAND-USES Rose Collis [FPH]	A WORLDWIDE POPULATION OF GROUP A STREPTOCOCCUS CIRCULATING IN AUCKLAND: A GENOMIC EPIDEMIOLOGY ANALYSIS Nikki Moreland [MM]
11:45	THINK BEFORE YOU ACT: WHAT IS THE MICROBIAL ROLE OF SECONDARY INVASION FOLLOWING WEED REMOVAL? Danielle Middleton [ME]	SYNERGISTIC COMBINATIONS OF ESSENTIAL OILS/EXTRACTS TO INACTIVATE E. COLI AND L. MONOCYTOGENES IN PORK MINCE Manasweeta Angane [FPH]	RETROSPECTIVE DETECTION OF M1UK IN INVASIVE GROUP A STREPTOCOCCUS ISOLATES FROM AOTEAROA NEW ZEALAND Anna Vesty [MM]
12:00		KILL ON CONTACT; QUATERNARY AMMONIUM COATINGS IN THE FOOD INDUSTRY Brent Seale [FPH]	THE LINK BETWEEN SUGARY DRINKS AND RHEUMATIC FEVER Jacelyn Loh – [MM]

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Tuesday 21 November (continued)

	LT1	LT2	LT3
12:15			EXPLORING THE IMMUNOSTIMULATORY PROPERTIES OF GAS PILI Risa Takahashi [MM]
12:30	Lunch		
12:45			
13:00			
13:15			
13:30	QUANTITATIVE MICROBIAL ECOLOGY OF FOODS TO ENHANCE FOOD SAFETY RISK MANAGEMENT Plenary - Tom Ross		
13:45			
14:00			
14:15			
14:30	ADAPTATION AND RESILIENCE OF THE TERRESTRIAL ANTARCTIC MICROBIOME IN THE FACE OF CLIMATE CHANGE Maria Monteiro [ME]	INFLUENCE OF CLIMATIC VARIATION ON MICROBIAL COMMUNITIES DURING ORGANIC PINOT NOIR WINE PRODUCTION Aghogho Ohwofasa [FPH]	WHEN IN ROME: A GUT PATHOGEN ADAPTS TO A DIFFERENT CARBON SOURCE Jemila Kester [AM]
14:45	THE INFLUENCE OF TEMPERATURE ON GROWTH AND COMPETITIVE CAPABILITIES OF YEAST IN NECTAR Connor Watson [ME]	POTENTIAL TO OPTIMIZE PIGMENT PRODUCTION TO CONTROL CITRININ LEVELS DURING FERMENTATION OF RED FERMENTED RICE Farawahida Abdul Halim [FPH]	HOST RESPONSE TO MONO- AND POLYMICROBIAL INFECTIONS IN A MOUSE SKIN ABSCESS MODEL Daniel Pletzer [AM]

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Tuesday 21 November (continued)

	LT1	LT2	LT3
15:00	HEATING UP THE CONVERSATION: UNRAVELLING MICROBIAL DYNAMICS IN VINEYARDS IN RESPONSE TO CLIMATE CHANGE PROJECTIONS Devya Paramaseven [ME]	NUTRIFERMENTICS: PIONEERING NEXT GENERATION FERMENTED PRODUCTS Venkata Chelikani [FPH]	STRAIN-LEVEL DIVERSITY OF ESCHERICHIA COLI, THE DOMINANT MEMBER OF THE KĀKĀPŌ GUT MICROBIOME Mike Taylor [AM]
15:15	THE ATACAMA SOIL MICROBIOME AS A MODEL FOR DRYLAND PERTURBATIONS AND SEARCHING FOR MARTIAN LIFE Laura Franssen [ME]	YERSINIA ENTEROCOLITICA PHAGES, WHICH MAY BE SUITABLE TO REDUCE THE PATHOGEN ALONG THE FOOD CHAIN Stefan Hertwig [FPH]	TUATARA GUT MICROBIOME REVEALS VARIATION WITH BIOGEOGRAPHY AND HOST CONDITION, BUT CONSERVED BACTERIA ACROSS LATITUDES Carmen Hoffbeck [AM]
15:30	Afternoon Tea		
15:45			
16:00	SALINITY-DRIVEN ADAPTATIONS IN FRESHWATER-TO-MARINE MICROORGANISMS: GENETIC AND TRANSCRIPTIONAL MODULATION OF AMINO ACID ENCODING Kim Handley [ME]		GUT ENTEROBACTERIACEAE UTILIZATION OF EXOGENOUS L-CYSTEINE LIMITING AVAILABILITY AND DRIVING HOST INFLAMMATION Tanner Richie [AM]
16:15	GROUNDWATER ECOSYSTEM MONITORING: IDENTIFYING RELATIONSHIPS BETWEEN GROUNDWATER CHEMISTRY AND MICROBIAL DIVERSITY AND FUNCTION Karen Houghton [ME]		TRYPTOPHAN-RICH ANTIGEN PVTRAG36.6 INTERACTS WITH RETICULOCYTE RECEPTOR CD71 FOR INVASION PROCESS OF MALARIA PARASITE Sumit Rathore [AM]

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16:30

CARBOHYDRATE DEGRADATION ALONG AN ESTUARINE GRADIENT

Jian Sheng Boey [ME]

ONTOGENETIC CHANGES IN THE GUT MICROBIOTA OF KYPHOSUS SYDNEYANUS

Alessandro Pisaniello [AM]

Tuesday 21 November (continued)

LT1

LT2

LT3

16:45

IMPACT OF MARINE HEATWAVES ON THE MICROBIOTA OF A TEMPERATE NZ SPONGE

Swati Bhargava [ME]

CHEMICALS THAT CHALLENGE THE MICROBIOME OF CRUCIAL CRITTERS

Tessa Hiscox [AM]

17:00

Poster Session #1

17:15

17:30

17:45

18:00

18:15

18:30

18:45

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NZMS CONFERENCE 2023 PROGRAMME

19:00
19:15
19:30
19:45
20:00
20:15

Wednesday 22 November			
	LT1	LT2	LT3
7:00			
7:15			
7:30			
7:45			
8:00			

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8:15	
8:30	Pursuing Wild Microbes: Microbiome Interactions and Ecophysiological Traits in Soil's Many Habitats Plenary - Jennifer Pett-Ridge
8:45	
9:00	
9:15	
9:30	
9:45	Morning Tea
10:00	
10:15	Student Oral Presentation Finalists
10:30	
10:45	
11:00	
11:15	

Wednesday 22 November (continued)

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NZMS CONFERENCE 2023 PROGRAMME

	LT1	LT2	LT3
11:30	NZMS AGM		
11:45			
12:00			
12:15			
12:30	Lunch		
12:45			
13:00			
13:15			
13:30	MODELLING BLACK QUEEN HYPOTHESES: NON-PRODUCERS AND MUTUALISTIC COMMUNITIES EXCLUDE EACH OTHER BY FREQUENCY DEPENDENT SELECTION Matthew Fullmer [ME]	MICROBIAL GENOMICS – RECENT INSIGHTS INTO EVOLUTION, CLASSIFICATION, AND ECOLOGY Invited - Chris Rinke	LONG-TERM CONTINENTAL SURVEILLANCE AND INTEGRATED RUST GENOMICS UNDERPIN SUSTAINED CEREAL RUST CONTROL IN AUSTRALIA Invited - Robert Park
13:45	PREDATOR PREY CO-EVOLUTION AND A NOVEL ROUTE TO A NEW GENE Heather Hendrickson [ME]		
14:00	CONSTRUCTIVE BLACK QUEEN HYPOTHESIS: NEW FUNCTION CAN EVOLVE UNDER CONDITIONS FAVOURING GENE LOSS Nobuto Takeuchi [ME]	INNOVATIVE NITROGEN RECOVERY FROM WASTEWATER BIOLOGICAL TREATMENT PROCESSES Xueyang Zhou [BO]	EXAMINING ARBUSCULAR MYCORRHIZAL FUNGAL COMMUNITIES AND THEIR INFLUENCE ON GRAPEVINE ROOTSTOCK GROWTH AND NUTRIENT UPTAKE Romy Moukarzel [PM]

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NZMS CONFERENCE 2023 PROGRAMME

Wednesday 22 November (continued)

	LT1	LT2	LT3
14:15	ADAPTIVE EVOLUTION OF A PLASTIC-DEGRADING BACTERIA Josephine Herbert [ME]	INSIGHTS INTO MICROBIAL COMMUNITY SHIFTS AND FUNCTIONAL POTENTIAL IN A FULL-SCALE WASTEWATER TREATMENT PLANT Bharat Manna [BO]	HALOPHYTE-RHIZOBACTERIA FOR SUSTANABLE MITIGATION OF SOIL SALINITY STRESS IN RICE PRODUCTION SYSTEM Lee Chuen Ng [PM]
14:30	EXPLORING THE MICROBIAL COMMUNITIES FORMING ON MARINE PLASTICS AROUND AOTEAROA-NEW ZEALAND Jessica Wallbank [ME]	EXPLORING THE EXTREMOZYMES CATALYZING CO2 HYDRATION FOR CO2 SEQUESTRATION AND UTILISATION Jingwen Che [BO]	CAN PLANTS CHOOSE FUNGAL PARTNERS THAT FUNCTIONALLY COMPLEMENT ROOT TRAITS? John V.Ramana [PM]
14:45	FUNCTIONAL POTENTIAL OF PLASTIC-ASSOCIATED BIOFILM COMMUNITIES IN THE MATURATION POND OF A WASTEWATER TREATMENT PLANT Stefan Maday [ME]	EXPLORING MICROBIAL METABOLIC DARK MATTER THROUGH GENOME MINING Tristan de Rond [BO]	PLANT INTERACTION TRAITS DETERMINE THE COMPOSITION AND BIOMASS OF SOIL BACTERIA AND ARBUSCULAR MYCORRHIZAL FUNGI Natascha Lewé [PM]
15:00	Afternoon Tea		
15:15			
15:30	SEARCHING FOR ANSWERS IN THE MUD – UNEARTHING THE HISTORY OF LAKES IN AOTEAROA NEW ZEALAND Invited - Susie Wood	UNRAVELLING THE EVOLUTION OF BACTERIAL FLAGELLAR MOTILITY Caroline Puente-Lelievre [BO]	EXPLORING THE DIVERSITY OF BIOSYNTHETIC GENE CLUSTERS IN KAURI FOREST SOILS AFFLICTED WITH DIEBACK DISEASE Alexa Byers [PM]
15:45		ATYPICAL BOVINE STAPHYLOCOCCUS AUREUS ISOLATES IDENTIFIED IN NEW ZEALAND DAIRY COWS Emma Voss [BO]	VARIATION IN SEED-BORNE MICROBIAL COMMUNITIES OF METROSIDEROS EXCELSA WITH CONSEQUENCES FOR GERMINATION SUCCESS Vladislav Kholostiaikov [PM]
16:00	KĀKĀPŌ NEST MICROBIOME Amber Meyer [ME]	TESTING THE WATER: A STREAMLINED WHOLE-GENOME SEQUENCING STRATEGY FOR VIBRIO SPECIES Yuwei Zhang [BO]	DISSECTION OF THE EPOXYJANTHITREM PATHWAY IN EPICHLŌE SP. LPTG-3 STRAIN AR37 BY CRISPR GENE EDITING Taryn Miller [PM]

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16:15	SPECIES-SPECIFIC HOST ASSOCIATIONS EXIST IN THE LEPTOSPERMUM SCOPARIUM (MĀNUKA) PHYLLOSHERE MICROBIOME Anya Noble [ME]	GENOMIC ORGANISATION OF MENINGOCOCCAL PILS IN CARRIAGE AND DISEASE Paloma Gea [BO]	EXPLORING THE MICROBIAL COMMUNITIES UNDER KAURI TREES AFFECTED BY PHYTOPHTHORA AGATHIDICIDA Indigo Michael [PM]
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Wednesday 22 November (continued)

	LT1	LT2	LT3
16:30	Poster Session #2		
16:45			
17:00			
17:15			
17:30			
17:45			
18:00			
18:15	Conference Dinner		
18:30			
18:45			
19:00			
19:15			
19:30			
19:45			
20:00			
20:15			

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Thursday 23 November					
	LT1	LT2	LT3		
7:00					
7:15					
7:30					
7:45					
8:00					
8:15					
8:30					
8:45					
9:00	DEFENCE AND COUNTER-DEFENCE STRATEGIES IN THE PHAGE-BACTERIUM ARMS RACE Plenary - Peter Fineran				
9:15					
9:30					
9:45					
10:00	Morning Tea				
10:15					
10:30	LINKING GUT MICROBIOME COMPOSITION TO COGNITIVE DEVELOPMENT IN INFANT MALNUTRITION Invited - Justin O'Sullivan	PHOSPHORUS RECOVERY FROM WASTEWATER USING BIOSTRUVITE FORMING BACTERIA ZhenHua Wang [BT]	THE STRUCTURAL BASIS OF PHAGE DISPLAY TECHNOLOGY AND NOVEL BIONANOTECHNOLOGY APPLICATIONS Jasna Rakonjac [BO]		
10:45		ASSESSING MICROBIAL ACTIVITY AGAINST PET-PLASTIC AND PHB-BIOPLASTIC WITHIN PHB-FORTIFIED WINOGRADSKY COLUMNS Briar Collins [BT]	MODELS OF MICROBIOME EVOLUTION INCORPORATING HOST RESOURCE PROVISIONING Xiao Yao [BO]		

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Thursday 23 November (continued)

	LT1	LT2	LT3
11:00	INFLUENZA AND THE MICROBIOME: A SYSTEMATIC REVIEW AND META-ANALYSIS David Broderick [HM]	DEVELOPMENT OF FLUORESCENT ANALOGUES OF VITAMIN B12 AND THE COBINAMIDE PRECURSOR FOR ANTIBACTERIAL APPLICATIONS Jessica Fredericksen [BT]	NICHE DIFFERENTIATION WITHIN THE AQUATIC LUNA CLUSTER Annie West [ME]
11:15	NOVEL APPLICATION OF A COMMERCIAL AGENT TO ERADICATE LABORATORY GROWN BIOFILMS Arne Koefoed [HM]	MICROBIAL DEGRADATION OF ORGANIC MICROPOLLUTANTS BY PSEUDOMONAS PUTIDA IN SYNTHETIC WASTEWATER Boyu Lyu [BT]	WHAT ARE WE MISSING? OPTIMISING DNA EXTRACTION FROM ALLOPHANIC SOILS Faith Mtandavari [ME]
11:30	LONG-TERM THERAPEUTIC POTENTIAL OF FAECAL MICROBIOME TRANSFER IN ADOLESCENT OBESITY: 4-YEAR FOLLOW-UP Brooke Wilson [HM]	UNDERSTANDING LAG PHASE DYNAMICS WITHIN A HYDROGENOTROPHIC MICROBIAL CONSORTIUM FOR ZERO-EMISSIONS NITRATE REMOVAL Hukerenui Bonnet [BT]	GUANIDINE DEGRADATION SYSTEMS IN AMMONIA OXIDIZING MICROORGANISMS Craig Herbold [ME]
11:45	GUT MICROBIOTA AND DIETARY INTERVENTION: METABOLIC INSIGHTS FROM AN ASIAN CHINESE COHORT Saif Faraj [HM]	BIODEGRADATION OF AGRICULTURAL WASTES BY PLEUROTUS PULMONARIUS(FR.) QUEL AND ASPERGILLUS NIGER VAN TIEGHEM FOR BIOETHANOL-PRODUCTION Abiodun Ashiru [BT]	FOSTER METHOD: RAPID AND NON-INVASIVE DETECTION OF CLINICALLY SIGNIFICANT AFB DISEASE LEVELS IN HONEYBEES John Mackay [ME]
12:00	THE SINONASAL MICROBIOTA: A COMPARISON OF SWAB AND TISSUE SAMPLES David Broderick [HM]	DECIPHERING THE INDUCERS BEHIND CELLULASE PRODUCTION IN TALAROMYCES SP Nidhi Adlakha [BT]	INVESTIGATING THE IMPACT OF ZEIN-NANOPESTICIDES ON SOIL MICROBIAL ENZYME ACTIVITY AND GROWTH Hongxuan Li [ME]
12:15	LIVAUX: A LOW-DOSE PRECISION PREBIOTIC, AND HOW IT WORKS Dr Doug Rosendale [HM]		ALISTIPES ARE A DISTINCT GROUP WITHIN KYPHOSUS SYDNEYANUS GUT DEGRADING MARINE POLYSACCHARIDES AND ASSIMILATING NITROGEN. Cesar Facimoto [BO & ME]
12:30	Fungal foray: lessons learned from a lifetime of molecular mycology NZMS Oration - Richard Cannon		
12:45			
13:00			
13:15			
13:30			
13:30	Conference Closing (followed by takeaway lunch)		

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