

# **Symposium Program**

	(subject to change)	
Sunday 24 <sup>th</sup> Aug	Sunday 24 <sup>th</sup> August	
4.00pm	Student Social Networking Function	
5.00pm – 7.00pm	Games Room, RACV Torquay Resort	
	Conference Registration and Welcome Reception Great Ocean Road Foyer	
Monday 25 <sup>th</sup> Au	gust	
8.00am	<b>Conference Registration</b> Great Ocean Road Foyer, RACV Torquay Resort	
	Session 1 – Opening	
8.30am- 10.00am	Great Ocean Road Ballroom	
8.30am – 8.40am	Chair: Presidents Welcome and Conference Opening	
	Jonathan Darbro, President, Mosquito Control Association of Australia (MCAA)	
8.40am – 8.45am	Welcome to Country	
8.45am – 9.00am	Welcome from Victoria Health	
9.00am – 9.30am	Keynote Address Bart Currie, Menzies School of Health Research and Royal Darwin Hospital	
9.30am – 10.00am	Keynote Address Nicholas Indelicato, Mercer County D.O.T. & I. / Highway Division	
10.00am - 10.30am	Morning Tea	
	Session 2 – National Arbovirus Surveillance and Mosquito Control Roundup	
10.30am – 12.00pm	Great Ocean Road Ballroom Chair:	
	Declining mosquito abundance, increasing mosquito-borne diseases over the 2023/24 and	
10.30am -10.45am	2024/25 seasons	
	Peter Neville, Department of Health Victoria	
10.45am – 11.00am	2023/24 and 2024/25 Northern Territory seasons. Mosquito and mosquito borne disease update.	
	Allan Warchot, Medical Entomology, Northern Territory Health	
11.00am – 11.15am	Arbovirus surveillance and mosquito borne diseases in Queensland: 2023/2024 - 2024/2025	
11.000.000	Cassie Jansen, Health Protection And Regulation Branch, Queensland Department Of Health	
11.15am – 11.30am	Tracking arbovirus activity in NSW: Challenges and emerging risks Keren Francis, Health Protection NSW	
11.30am – 11.45am	Arbovirus and mosquito surveillance in South Australia 2023-2024 & 2024-2025	
11.30ain - 11.43ain	Brad Mackintosh, SA Health	

11.45am – 12.00pm	Arbovirus and mosquito surveillance in WA: 2023/24 - 2024/25
	Jay Nicholson, Department of Health
12.00pm – 1.00pm	Lunch
	Session 3 – Challenges and Solutions for Mosquito Management (I)
1.00pm – 2.30pm	Great Ocean Road Ballroom
	Chair:
	A Survey of Action Threshold Use in Australian Mosquito Control Programs
1.00pm – 1.12pm	Jonathan Darbro, Metro North Public Health Unit
	Biorational larvicides and their potential impacts on Australian stingless bees
1.12pm – 1.24pm	Brian Johnson, QIMR Berghofer
	Morphological Identification of four Australian species in <i>Culex pipiens</i> complex
1.24pm – 1.36pm	Jyotika Taneja De Bruyne, Agriculture Victoria Research, Agribio Centre
	Will Wolbachia-based mosquito control survive climate change?
1.36pm – 1.48pm	Perran Ross, The University of Melbourne
	Modelling Aedes albopictus management, incorporating immigration and bidirectional
1.48pm – 2.00pm	Wolbachia interactions
	Roslyn Hickson, CSIRO
	Mosquito salivary antibody biomarkers as surrogate outcomes in trials of vector control
2.00pm – 2.12pm	Freya Fowkes, The University of Melbourne
	Collecting intelligence on mosquito host-seeking behaviour in response to permethrin-treated
2.12pm-2.24pm	uniforms
	Lisa Rigby, Australian Defence Force
2.25pm – 3.00pm	Afternoon Tea
	Session 4 – Rapid Fire Session
3.00pm – 4.45pm	Great Ocean Road Ballroom
	Chair:
	Exposure rate of Queensland macropods
3.00pm – 3.05pm	to Australian arboviruses associated with human infection
0.00p	
	Wenjun Liu, ADF Malaria And Infectious Disease Institute
2.05 am 2.10 am	
3.05pm-3.10pm	Wenjun Liu, ADF Malaria And Infectious Disease Institute
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4.45nm	Close of Day 1
4.40pm-4.45pm	Saiful Islam, Sylhet Agricultural University
4 40 mm 4 45 mm	Surveillance of Aedes spp in Sylhet City Corporation, Bangladesh
	Brendan Trewin, CSIRO
4.35pm-4.40pm	(PISCES)
4.30pm-4.35pm	Mosquitoes and lasers: Precision Insect Sorting and Classification Entomological Solution
	Abbey Potter, WA Department of Health
4.25pm-4.30pm	Comparison of yeast-generated carbon dioxide and dry ice in baiting mosquito traps
	Adrian Oo, National University of Singapore
4.25 mm 4.20 mm	Identification of CHIKV-derived viral small RNAs with virus modulatory profiles
	Mukund Madhav, CSIRO
4.20pm-4.25pm	applications
	Characterisation of novel Wolbachia strains in Australian mosquitoes for vector control
4.15pm-4.20pm	Hayden Rohlf, QIMR Berghofer
4.15 pm 4.20 pm	Castlerea virus as an arbovirus biocontrol agent in Australian vector species
4.10pm-4.15pm	Tyson Thomson, The University of Queensland
4.4.0 4.4.5	Drosophila melanogaster as a model for miRNAs in arboviral host-virus interactions
4.05pm-4.10pm	Kevin Moore, Griffith University
4.00pm-4.05pm	Feeding patterns of a JEV vector, Culex annulirostris, at Victorian commercial piggeries
	James Wisdom, Queensland Health
4.00pm 4.05pm	A survey of the mosquito fauna of K'gari (Fraser Island)

#### 4.45pm

## 5.00pm-6.00pm

# **Student Networking Function**

# Tuesday 26<sup>th</sup> August

## **Conference Registration**

Great Ocean Road Foyer, RACV Torquay Resort

	Session 5 – Buruli Ulcer
8.30am – 10.00am	Great Ocean Road Ballroom
	Chairs:
8.25am-8.30am	Welcome to Day Two
8.30am-9.00am	Keynote Address
	Paul Johnson, Austin Health
9.00am – 9.12am	Invertebrate carriage of Mycobacterium ulcerans in Australian hot spots for Buruli ulcer
9.00am – 9.12am	Stacey Lynch, CSIRO
9.12am – 9.24am	Challenges in defining suburb risk classifications for Mycobacterium ulcerans in Victoria
9.124111 - 9.244111	Catarina Agostinho, Victorian Department of Health
9.24am – 9.36am	Experimental infection of possums with Mycobacterium ulcerans, the agent of Buruli ulcer
5.24din 5.50din	Kim Blasdell, CSIRO
9.36am – 9.48am	Mycobacterium ulcerans in possum faeces precedes emergence in humans, Victoria.
5.50um 5.40um	Bridgette McNamara, Barwon Health
9.48am – 10.00am	Investigating the role of foxes in the epidemiology of <i>Mycobacterium ulcerans</i> transmission
5.40dm 10.00dm	Michael Muleme, Barwon Health
10.00am – 10.30am	Morning Tea
Session 6 – Challenges and Solutions to Mosquito Management (II)	
10.30am – 12.00pm	Great Ocean Road Ballroom
	Chair:
10.30am – 10.42am	Interventions to control Aedes notoscriptus numbers on the Mornington Peninsula.
10.50dm – 10.42dm	Peter Mee, Agriculture Victoria
10.42am-10.54am	Autodissemination stations to suppress Aedes notoscriptus in urban Victoria
10.42011-10.34011	Veronique Paris, The University of Melbourne

8.00am

10.54am – 11.06am	Dual communications strategies – risk avoidance vs disease detection for Buruli ulcer.
	Grace King, Department of Health
	Mozzie Monitors: lessons learnt in engagement, education and establishing a national
11.06am – 11.18am	program
	Craig Williams, The University of South Australia
	Integrating citizen science data for vector-borne disease outbreak prediction and
11.18am – 11.30am	surveillance
	Shashikala Wijesooriya, University of South Australia
	Social behavioural factors influencing mosquito borne disease prevention among
11.30am – 11.42am	Australians.
	Rebika Nepali, The University of Sydney
	Neutralising spatial sampling bias for modelling the distribution of Australian mosquito
11.42am-11.54am	vectors
	David Duncan, The University Of Melbourne

#### 11.55am – 1.00pm

11.55am – 1.00pm	Lunch
	Session 7 – Arbovirus threats to Australia (I)
1.00pm – 2.30pm	Great Ocean Road Ballroom
1.00pm – 2.30pm	Chair:
1.00pm – 1.12pm	Tracking the 2023-24 Ross River virus outbreak in Queensland using sugar-based surveillance
1.00pm – 1.12pm	Andrew van den Hurk, Queensland Health
112nm $124nm$	Predictive modelling of Ross River virus in NSW
1.12pm – 1.24pm	Suhasini Sumithra, NSW Health
1.24pm – 1.36pm	Spatial and temporal patterns of Ross River virus across Victoria, 2013-2023.
1.24pm = 1.50pm	Anura Jayasinghe, Loddon Mallee Public Health Unit
1 26nm 1 19nm	Why can some arthritogenic alphaviruses (RRV) infect pigs while others (CHIKV) can't?
1.36pm-1.48pm	Daniel Rawle, QIMR Berghofer
1.48pm – 2.00pm	Commercial Japanese encephalitis pig vaccines protect against the Australian Genotype IV
	virus
	Caitlin O'Brien, CSIRO ACDP
2.00pm – 2.12pm	Chondrocytes and muscle cells are potential reservoirs for persistent alphaviruses
	Lara Herrero, Griffith University
2.12 nm $- 2.24$ nm	Trends in exotic mosquito-borne diseases in Victoria, with an emphasis on dengue
2.12pm – 2.24pm	Monique Thomaidis, Department of Health Victoria

2.25pm – 3.00pm	Afternoon Tea
	Session 8 – Arbovirus threats to Australia (II)
3.00pm – 5.00pm	Great Ocean Road Ballroom
	Chair:
	Re-emergence of Japanese encephalitis virus genotype IV in Southeastern
3.00pm-3.12pm	Australia in 2024-25
	David Williams, CSIRO
2.4.2	Rethinking the sero-epidemiology of Japanese encephalitis serogroup flaviviruses
3.12pm – 3.24pm	Maxwell Braddick, Institute for Infection and Immunity
	Assessing the vector competence of Queensland mosquitoes for Japanese Encephalitis Virus
3.24pm – 3.36pm	Genotype-IV
	Narayan Gyawali, Queensland Health
2.26	Why do some people survive Japanese encephalitis and others don't?
3.36pm – 3.48pm	Abigail Cox, QIMR Berghofer
2.40	Comparing modelled JEV spillover risk to known transmission. How can models improve?
3.48pm – 4.00pm	Eloise Skinner, University of Queensland
4.00 4.40	Rapid dispersal of Murray Valley encephalitis virus during the 2023 Australian outbreak
4.00pm – 4.12pm	Jackie Mahar, CSIRO

4.12pm – 4.24pm	Molecular detection of Japanese and Murray Valley encephalitis virus in NT mosquitoes
· ·	Nina Kurucz, Northern Territory Health
4.24pm – 4.36pm	Increased Flavivirus activity in northern WA 2022 - 2025
	Jay Nicholson, Department of Health
4.36pm – 4.48pm	Flavivirus serosurvey of wild birds in the Kimberley region of Western Australia Abbey Potter, Western Australia Department of Health
4.50 mm	
4.50pm	Close of Day 2
7.00pm – 10.00pm	
	Great Ocean Road Ballroom
	Feature presentation: The Mosquito and Arbovirus Research Committee
	30 Years of Pioneering Research Brian Johnson, QIMR Berghofer
Wednesday 27 <sup>t</sup>	<sup>n</sup> August
8.00am	Conference Registration
o.ooani	Great Ocean Road Foyer
	Session 9 – Mosquito-borne disease challenges
8.30am – 10.00am	and building solutions in Papua New Guinea
8.50am - 10.00am	Great Ocean Road Ballroom
	Chair:
0.200	Keynote Address
8.30am- 9.00am	Stephen Karl, James Cook University
0.000.12	Building vector control capacity to reduce malaria transmission in Papua New Guinea
9.00am – 9.12am	Patrina Johnson, James Cook University
9.12am – 9.24am	Detection of Japanese Encephalitis Virus from mosquitoes in Papua New Guinea
5.12din 5.24din	Joelyn Goi, PNG Institue of Medical Research
9.24am – 9.36am	Diversity of insect-specific viruses in Culex mosquitoes collected in Papua New Guinea
	Nayomi Danthanarayana, CSIRO/ACDP and Charles Sturt University
9.36am – 9.48am	Lessons learned: designing longitudinal larval habitat surveillance in Kiunga, Western Province <b>Stephen Gideon,</b> <i>Burnet Institute</i>
	Guardian™ spatial emanator protects against Anopheles punctulatus group in Papua New
9.48am – 10.00am	Guinea
201000111	Michelle Katusele, James Cook University/PNG Institute of Medical Research
10.00am – 10.30am	Morning Tea
	Session 10 – Mosquito Management - Pacific and Beyond
10.30am – 12.00pm	
	Chair:
10 2025 10 12	Population genomics of the malaria vector Anopheles farauti through the Southwest Pacific
10.30am – 10.42am	Nigel Beebe, University of Queensland
10.42am – 10.54am	Insights from Laos dengue surveillance with Defence Forces Australia, Laos and Vietnam
10.42811 - 10.54811	Weng Chow, ADFMIDI
10.54am – 11.06am	The origin, invasion history and resistance architecture of Anopheles stephensi in Africa
	Tristan Dennis, Liverpool School of Tropical Medicine / University Of Queensland
11.06am – 11.18am	Farauti and furious: modelling malaria mosquitoes for outbreak prevention
	Manuela Mendiolar, CSIRO
11.18am – 11.30am	A consortium to strengthen mosquito surveillance and control in the Pacific Amanda Murphy, James Cook University
	Are neglected zoonotic arboviruses on the move?
11.30am – 11.42am	Francesca Frentiu, Queensland University of Technology
11.42am – 11.54am	
11.55am – 1.00pm	Lunch

	Session 11 – Dengue Threats and Response in Australia
1.00pm – 2.30pm	Great Ocean Road Ballroom
	Chair:
1.00pm – 1.30pm	Keynote Address
1.000000 1.300000	Anna-Bella Faillouxz, Institut Pasteur
1.30pm-1.42pm	Updating the distribution of dengue vectors in the Torres Strait
1.50pm 1.42pm	Alexander Gofton, CSIRO
1.42pm – 1.54pm	Modelling the global mosquito miscreants on Mer: Aedes albopictus
1.42011 1.34011	Francisca Powell-Romero, CSIRO
1.54pm- 2.06pm	Still holding back the tiger: battle against Aedes albopictus in Torres Strait
1.34pm 2.00pm	Mutizwa Odwell Muzari, Queensland Health, Tropical Public Health Services
2.06pm- 2.12pm	Battling the Dengue Mosquito: The Fight for a Aedes aegypti free Northern Territory
2.000000 2.12000	Stephen Fricker, Medical Entomology, Northern Territory Health
	Community engagement update from the Torres Strait: conversations towards Indigenous self-
2.12pm- 2.24pm	determination
	Brendan Trewin, CSIRO
2.25pm – 3.00pm	Afternoon Tea
	Session 12 – Local Government Perspectives in Mosquito Management
3.00pm – 4.36pm	Great Ocean Road Ballroom
	Chair:
3.00pm – 3.12pm	City of Armadale mosquito control treatment conducted in State Government managed land
5.00pm = 5.12pm	Agnes Novinda, City of Armadale
3.12pm – 3.24pm	Continued Surveillance of Aedes vigilax in the Gippsland Lakes
5.12pm 5.24pm	Samantha King, Wellington Shire Council
3.24pm – 3.36pm	Flying to beat the bite; local government, drones and mosquito control
5.24pm 5.50pm	Loyd Phillips Madeira, City of Greater Geelong
3.36pm – 3.48pm	Griffith City Council's 50yr contribution to safer communities
5.50pm 5.40pm	Vanessa Johns, Griffith City Council
3.48pm – 4.00pm	Managing mosquito-borne disease in Murrumbidgee Region in NSW
	Tony Burns, NSW Health Wagga Wagga
4.00 nm $- 4.12$ nm	
4.00pm – 4.12pm	Responding to a significant pest mosquito infestation in South-West Sydney
4.00pm – 4.12pm	Cameron Webb, NSW Health Pathology
4.00pm – 4.12pm 4.12pm – 4.24pm	

### 5.30pm-6.30pm

8.00am

## MCAA AGM

Great Ocean Road Ballroom

# Thursday 28<sup>th</sup> August

### **Conference Registration** *Great Ocean Road Foyer*

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8.25am – 10.00am	Session 13 – Mosquito Immunity, Microbiomes & the Future of Arbovirus Control Great Ocean Road Ballroom Chair:
8.25am – 8.30am	Welcome to Day Four
8.30am – 9.00am	Keynote Address Esther Schnettler, University of Hamburg, Germany
9.00am – 9.12am	Microbiome and arbovirus interactions in mosquitoes: new opportunities for biological control <b>Leon Hugo,</b> <i>QIMR Berghofer</i>
9.12am – 9.24am	REAVR technology reduces the vectorial capacity of <i>Aedes</i> mosquitoes for Zika virus <b>Dewi Megawati</b> , Warmadewa University
9.24am – 9.36am	Mozzies going viral: insect-specific flaviviruses and their potential for biocontrol Alyssa Peterson, University of Queensland / QIMR Berghofer

9 36am – 9 48am	Structural insights into Tpp2-mediated mosquito control: receptor engagement with Cqm1 Bradley Spicer, Monash University
9 48am - 10 00am	Impact of temperature changes on <i>Aedes aegypti</i> fitness and virus transmission <b>Prasad Paradkar</b> , CSIRO
10.00am – 10.12am	Investigations into insect-specific alphavirus host-restriction mechanisms Jessica Harrison, University of Queensland
10.15am – 10.45am	Morning Tea
10.45am – 1.00pm	Session 14 – Innovations in Arbovirus and Mosquito Surveillance Technology Great Ocean Road Ballroom
	Chairs:
10.45am-10.57am	Optimising reverse genetics synthesis of RNA arboviruses James Potter, University of Queensland
10 57am-11 09am	Host nuclear protein interacts with alphavirus 3'UTR to promote early protein translation Therese Lim, National University of Singapore
11 09am-11 21am	Enhancing pathogenic detection in Far North Queensland Melissa Graham, QIMR Berghofer
$11 \ 11 \ m_11 \ xx_{2m}$	Improving the sensitivity of metatranscriptomic arbovirus surveillance Jana Batovska, Agriculture Victoria
11 33am-11 45am	COSMOS: simultaneous virus-vector genomics for mosquito-borne diseases Tanya Golubchik, University of Sydney
11.45am-11.57am	Strengthening One Health surveillance in Victoria: environmental testing for re-emerging flaviviruses Mitchell Batty, VIDRL
11.57am-12.09pm	Inhibitor A11N demonstrates broad-spectrum antiviral activity against Alphaviruses and Flaviviruses Wesley Freppel, Griffith University
1) (lynm-1) /lnm	Mosquito salivary antibody biomarkers to surveil heterogeneity in exposure to mosquito bites Ellen Kearney, The University of Melbourne
12 21pm – 12 33pm	Proof-of-concept trial of an artificial intelligence system for mosquito identification. Binh Luong, City of Bayswater
12.33pm-12.45pm	Awards Presentation and Closing Ceremony
12.45pm	Lunch