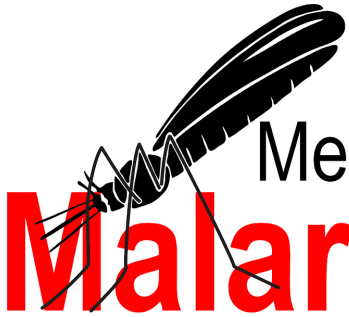

Melbourne Malaria 2021

28–29 October 2021

Program

#malariamelb21

malariainmelbourne@gmail.com

https://www.malariainmelbourne.org.au

Program at a Glance

Day 1

09:50 - 10:00am	Welcome and Housekeeping
10:00 - 10:30am	**Plenary Session 1**
10:30 - 12:00pm	**Session 1: Epidemiology**
12:00 - 12:30pm	Lunch
12:30 - 1:40pm	**Session 2: Drug development**
1:40 - 2:10pm	**Short Talks: Session 1**
2:10 - 2:20pm	**Poster Briefing**
2:20 - 2:30pm	Break
2:30 - 3:00pm	**Poster Session 1**
3:00 - 4:10pm	**Session 3: Emerging technologies**

Day 2

09:50 - 10:00am	Welcome and Housekeeping
10:00 - 10:30am	**Plenary Session 2**
10:30 - 12:00pm	**Session 4: Molecular parasitology**
12:00 - 12:30pm	Lunch
12:30 - 1:40pm	**Session 5: Immunology**
1:40 - 2:10pm	**Short Talks: Session 2**
2:10 - 2:20pm	**Poster Briefing**
2:20 - 2:30pm	Break
2:30 - 3:00pm	**Poster Session 2**
3:00 - 4:10pm	**Session 6: Surveillance and elimination**
4:10 - 4:20pm	**Closing Remarks and Awards**

Links

Day 1: Zoom

https://unimelb.zoom.us/j/87480697780?pwd=dEZnRDVNOFNPRnVQNWFDR2xSTFF6UT09
Password: 051312

Or by phone:
Dial (Australia): +61 3 7018 2005 or +61 2 8015 6011
Meeting ID: 874 8069 7780 | Password: 051312
More international numbers available: https://unimelb.zoom.us/u/kfYGkYvWr

Or from a H.323/SIP room system:
Dial:87480697780@zoom.aarnet.edu.au | or SIP:87480697780@zmau.us | or 103.122.166.55
Meeting ID: 87480697780 | Password: 051312

Day 1: Remo poster session

https://live.remo.co/e/mim-poster-session-1

Day 2: Zoom

https://unimelb.zoom.us/j/87571163552?pwd=VHAzR2xTRndQcFNZanovOU5qUmNrUT09
Password: 035276

Or by phone:
Dial (Australia): +61 3 7018 2005 or +61 2 8015 6011
Meeting ID: 875 7116 3552 | Password: 035276
More international numbers available: https://unimelb.zoom.us/u/kcWFSlucHB

Or from a H.323/SIP room system:
Dial:87571163552@zoom.aarnet.edu.au | or SIP:87571163552@zmau.us | or 103.122.166.55
Meeting ID: 87571163552 | Password: 035276

Day 2: Remo poster session

https://live.remo.co/e/mim-poster-session-2

09:50 - 10:00am Acknowledgment of Country

Welcome and Housekeeping

10:00 - 10:30am **Plenary Session 1**

Sponsored by The Walter and Eliza Hall Institute of Medical Research

Session chair: Lisa Ioannidis

Harnessing liver-resident T cell immunity for protection against malaria

Dr Daniel Fernandez-Ruiz - The Department of Microbiology and Immunology and Peter Doherty Institute for Infection and Immunity, The University of Melbourne, Melbourne, VIC, Australia

10:30 - 12:00pm **Session 1: Epidemiology**

Session chairs: Myo Naung and Katherine O'Flaherty

T1 **Molecular surveillance to assess the impact of sequential malaria control interventions on the reservoir of *Plasmodium falciparum* in a high-transmission area in northern Ghana**

Kathryn Tiedje - The Department of Microbiology and Immunology, Bio21 Institute and Peter Doherty Institute, The University of Melbourne, Melbourne, VIC, Australia

T2 **Evaluation of the usefulness of intermittent preventive treatment of malaria in pregnancy with sulfadoxine-pyrimethamine in a context with increased resistance of *Plasmodium falciparum* in Kingasani Hospital, Kinshasa in the Democratic Republic of Congo**

Evariste Tshibangu (on behalf of Nadine Kayiba Kalenda) - Research Institute of Health and Society, Catholic University of Louvain, Brussels, Belgium

T3 **Unravelling var chaos for malaria surveillance: Linkage of the DBLα tag and var**

Mun Hua Tan - The Department of Microbiology and Immunology, Bio21 Institute, The University of Melbourne, Melbourne, VIC, Australia

T4 **Mixed effect analysis of factors influencing the use of insecticides treated bed nets among pregnant women in Ghana: Evidence from the 2019 malaria indicator survey**
Desmond Klu - Centre for Malaria Research, Institute of Health Research, University of Health and Allied Sciences, Ghana

T5 **The role of anti-malarial immunity in the spontaneous clearance of molecular-detectable *Plasmodium* spp. infection**
Merryn Roe - Disease Elimination Program, Burnet Institute for Medical Research and Public Health, School of Public Health and Preventive Medicine, Monash University, Melbourne, VIC, Australia

12:00 - 12:30pm **Lunch**

12:30 - 1:40pm **Session 2: Drug development**

Sponsored by The Anti-malaria Synergy Team

Session chairs: Hanh Nguyen and Charlie Jennison

T6 **Dual plasmepsin-targeting antimalarial agents disrupt multiple stages of the malaria parasite lifecycle**
Paola Favuzza - The Walter and Eliza Hall Institute of Medical Research, Melbourne, VIC, Australia

T7 **An untargeted target identification approach for novel aminobenzimidazole antimalarials identifies Exportin-1 as a potential target**
Matthew Challis - Monash Institute of Pharmaceutical Sciences, Drug delivery, disposition and dynamics, Global Health Therapeutic Program Area, Monash University, Melbourne, VIC, Australia

T8 **L672H mutation in the *P. falciparum* flavokinase confers resistance to roseoflavin and 8-aminoriboflavin**
Ayman Hemasa - Research School of Biology, Australian National University, Canberra, ACT, Australia

T9 **The sulfonylpiperazine MMV020291 prevents red blood cell invasion through interference with actin-1/profilin**

dynamics in the malaria parasite *Plasmodium falciparum*
Madeline Dans - Burnet Institute, The Walter and Eliza Hall Institute, Melbourne, VIC, Australia and Deakin University, Geelong, VIC, Australia

1:40 - 2:10pm **Short Talks: Session 1**

Session chairs: Jack Adderley and Kirsty McCann

ST1 ***Plasmodium falciparum's*** **redox homeostasis is perturbed by peroxide antimalarials**
Ghizal Siddiqui - Drug Delivery, Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC Australia

ST2 **Can we target the mosquito stages of *Plasmodium* with 'drugs' to reduce transmission?**
Sarah Farrell - School of BioSciences, The University of Melbourne, VIC, Australia

ST3 **Molecular surveillance of asymptomatic *Plasmodium falciparum* in high-transmission regions in the context of interventions**
Dionne Argyropoulos - The Department of Microbiology and Immunology, Bio21 Institute and Peter Doherty Institute, The University of Melbourne, Melbourne, VIC, Australia

ST4 **Effect of primaquine daily dose on tolerability in patients with uncomplicated *Plasmodium vivax*: a systematic review and individual patient data meta-analysis**
Megha Rajasekhar - Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, The University of Melbourne, Melbourne, VIC, Australia

ST5 **Complement and Fcγ-receptor mediated antibody effector functions target merozoites and are associated with protection from severe malaria in children**
Sandra Chishimba - Burnet Institute, Life Sciences and The Department of Medicine at Royal Melbourne Hospital, Melbourne Medical School, Faculty of Medicine, Dentistry and Health Sciences, University of Melbourne, Melbourne, VIC, Australia

ST6 **The *Plasmodium* apicoplast is essential for construction of GPI anchors needed for egress and invasion**

Long Kim Huynh - The Department of Biochemistry and Pharmacology, The University of Melbourne, Melbourne, VIC, Australia

ST7 **PTEX-mediated export of effector proteins depends upon the length of an unstructured region downstream of the conserved export motif**
Mikha Gabriela - Malaria Virulence and Drug Discovery Group, Burnet Institute, Melbourne, VIC, Australia and School of Medicine, Deakin University, Geelong, VIC, Australia

2:10 - 2:20pm **Poster Briefing: Coralie Boulet**

2:20 - 2:30pm **Break**

2:30 - 3:00pm **Poster Session 1**

3:00 - 4:10pm **Session 3: Emerging technologies**

Session chairs: Dulcie Lautu and Caitlin Bourke

T10 **A mathematical model of within-host hypnozoite dynamics for *Plasmodium vivax***
Somya Mehra - School of Mathematics and Statistics, The University of Melbourne, Melbourne, VIC, Australia

T11 **Metabolomic and thermal proteomic profiling to facilitate mode of action discovery for multistage active malaria box compounds with unknown targets**
Carlo Giannangelo - Drug Delivery, Disposition and Dynamics, Global Health Therapeutic Program Area, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC, Australia

T12 **Investigating the role of the spleen in red blood cell dynamics in malaria using mathematical modelling**
Saber Dini - Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, University of Melbourne, Melbourne, VIC, Australia

T13 **An interactive, user-friendly platform for end-to-end analysis of targeted amplicon sequencing data**
Somesh Mehra - Life Sciences Discipline, Burnet Institute, Melbourne, VIC, Australia

09:50 - 10:00am Acknowledgment of Country

Welcome and Housekeeping

10:00 - 10:30am **Plenary Session 2**

Sponsored by The Peter Doherty Institute for Infection and Immunity

Session chair: Lee Yeoh

The evolving economic case for malaria control and elimination
Dr Angela Devine - Menzies School of Health Research, Darwin, NT, Australia

10:30 - 12:00pm **Session 4: Molecular parasitology**

Sponsored by Qiagen

Session chairs: Elyse Dunn and Oliver Looker

T14 **Malaria parasite trafficking defect: weird knobs, vesicle pile-up and failure to deliver a critical virulence factor**
Olivia Maria Silva Carmo - The Department of Biochemistry and Pharmacology, Bio21 Molecular Science and Biotechnology Institute, University of Melbourne, Melbourne, VIC, Australia

T15 **Apicoplast derived isoprenoids are essential for the biosynthesis of glycophosphatidylinositol anchors and egress of asexual stage *Plasmodium falciparum***
Michaela Bulloch - Department of Biochemistry and Pharmacology, The University of Melbourne, Melbourne, VIC, Australia

T16 **Phenotyping the protein kinase CLK3 knockout in *Plasmodium* parasite**
Ying Yui Grace Law - School of Biosciences, The University of Melbourne, VIC, Melbourne, Australia

T17 **Knockdown of PTEX impairs the haemoglobin digestion pathway in *Plasmodium falciparum***
Thorey Jonsdottir - Burnet Institute and The Department of Microbiology and Immunology, The University of Melbourne, Melbourne, VIC, Australia

T18 **Role of PHIST protein in knob formation**
Mohini Anjna Shibu - The Department of Biochemistry and Molecular Biology, Bio21 Molecular Science and Biotechnology Institute, The University of Melbourne, Melbourne, Melbourne, VIC, Australia

12:00 - 12:30pm **Lunch**

12:30 - 1:40pm **Session 5: Immunology**

Sponsored by The Burnet Institute

Session chairs: Lynette Beattie and Rhea Longley

T19 **Antibody targets and properties for complement fixation against the circumsporozoite protein in malaria immunity**
Liriye Kurtovic - Burnet Institute and The Department of Immunology and Pathology, Monash University, Melbourne, VIC, Australia

T20 **The role of an innate-like T cell subset during *Plasmodium* sporozoite infection**
Phoebe Dewar - The Department of Microbiology and Immunology, Peter Doherty Institute for Infection and Immunity, The University of Melbourne, Melbourne, VIC, Australia

T21 **Defining the mechanisms of action of antibodies against *Plasmodium vivax* malaria**
Kaitlin Pekin - Burnet Institute, The Department of Microbiology, Monash University, Melbourne, VIC, Australia

T22 **Effect of the PAMVAC vaccine on the antibody functional responses in non-pregnant populations**
Amaya Ortega - Department of Infectious Diseases, University of Melbourne, The Doherty Institute, Melbourne, VIC, Australia

1:40 - 2:10pm **Short Talks: Session 2**

Chairs: Emma McHugh and Maria Nogueira De Menezes

ST8 **Identification of biochemical changes in drug-resistant *Plasmodium falciparum* parasites, with a focus on parasite haemoglobin digestion and redox homeostasis**
Yunyang Zhou - Monash Institute of Pharmaceutical Sciences, Drug Delivery, Disposition and Dynamics, Melbourne, VIC, Australia

ST9 **Untargeted metabolomics analysis reveals cyclopropyl amide antimalarials act by disrupting *Plasmodium falciparum* pyrimidine metabolism**
Abbey McCorquodale - Drug Delivery, Disposition and Dynamics, Global Health Therapeutic Program Area, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC, Australia

ST10 **Effect of primaquine dose of the risk of recurrence in patients with uncomplicated *Plasmodium vivax*: a systematic review and individual patient data meta-analysis**
Rob Commons - Global Health Division, Menzies School of Health Research and Charles Darwin University, Darwin, NT, Australia, WorldWide Antimalarial Resistance Network (WWARN) and Internal Medical Services, Ballarat Health Services, Ballarat, VIC, Australia

ST11 **Identifying key targets for $CD8^+$ tissue resident memory T cell based malaria vaccine**
Zhengyu (Jeff) Ge - The Department of Microbiology and Immunology, The University of Melbourne, Melbourne, VIC, Australia

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Kael Schoffer - Walter and Eliza Hall Institute of Medical Research, Melbourne, VIC, Australia

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Sophie Collier - School of BioSciences, The University of Melbourne, Melbourne, VIC, Australia

ST14 **Genomic Profiling of *Plasmodium falciparum* using Targeted Amplicon Sequencing with the Portable MinION-MK1C Sequencer**
Zahra Razook - Institute of Mental and Physical Health and Clinical Translation (IMPACT) and School of Medicine, Faculty of Health, Deakin University, Geelong, VIC, Australia and Life Sciences Discipline, Burnet Institute, Melbourne, VIC, Australia

2:10 - 2:20pm **Poster Briefing: Coralie Boulet**

2:20 - 2:30pm **Break**

2:30 - 3:00pm **Poster Session 2**

3:00 - 4:10pm **Session 6: Surveillance and elimination**

Sponsored by The Australian Centre for Research Excellence in Malaria Elimination (ACREME)

Session chairs: Fiona Agrisano and Charles Narh

T23 **Field evaluation of highly sensitive diagnostic methods for detection of malaria infections in pregnancy in Papua New Guinea**
Benishar Kombut - Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea and Burnet Institute for Medical Research, Kokopo, Papua New Guinea

T24 **Induction, decay, and determinants of functional antibodies induced by the RTS,S malaria vaccine in young children**
Gaoqian Feng - Burnet Institute and The Department of Medicine, The University of Melbourne, Melbourne, VIC, Australia

T25 **Rebound in the *Plasmodium falciparum* reservoir following the implementation of seasonal malaria chemoprevention and discontinuation of indoor residual spraying**
Sanjay Gautam - Department of Microbiology and Immunology, The University of Melbourne, Bio21 Molecular Science and Biotechnology Institute and Peter Doherty Institute, Melbourne, VIC, Australia

T26 **Antibody avidity and maintenance in malaria vaccine responses**

Jessica Horton - Burnet Institute and The Department of Medicine, University of Melbourne, Melbourne, VIC, Australia

4:10 - 4:20pm **Prizes and closing remarks**

ST1 ***Plasmodium falciparum's*** **redox homeostasis is perturbed by peroxide antimalarials**
Ghizal Siddiqui - Drug Delivery, Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC Australia

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Mikha Gabriela - Malaria Virulence and Drug Discovery Group, Burnet Institute, Melbourne, VIC, Australia and School of Medicine, Deakin University, Geelong, VIC, Australia

P1 **Application of serological markers for the assessment of the transmission of *Plasmodium vivax* infections in Papua New Guinea**
Natalie Cerovac - Population Health and Immunity Division, The Walter and Eliza Hall Institute of Medical Research, Melbourne, VIC, Australia

P2 **Evaluation of an optimal community-delivered malaria elimination model for the Greater Mekong Sub-region: protocol of a stepped wedge cluster-randomized controlled trial nested with mixed methods studies**
Win Htike - Burnet Institute, Melbourne, VIC, Australia

P3 **Understanding the Role of PfMT-A70.2 in the *Plasmodium falciparum* N6-methyladenosine Writer Complex**
Asela Lakvin Fernando - Department of Biochemistry and Molecular Biology, Bio21 Molecular Science and Biotechnology Institute, The University of Melbourne, Melbourne, VIC, Australia

P4 **Perspectives of health and community stakeholders on community-delivered models of malaria elimination in Lao People's Democratic Republic: A qualitative study**
May Chan Oo - Burnet Institute Myanmar, Yangon, Myanmar

P5 **The design, synthesis and evaluation of novel metalloaminopeptidase inhibitors as antimalarial agents**
Mahta Mansouri - Medicinal Chemistry, Monash Institute of Pharmaceutical Sciences, Melbourne, VIC, Australia

P6 **N/A**

P7 **Repeated *Plasmodium falciparum* infection in humans drives the clonal expansion of an adaptive gamma delta T cell repertoire**
Anouk von Borstel - Infection and Immunity Program and The Department of Biochemistry and Molecular Biology, Biomedicine Discovery Institute, Monash University, Melbourne, VIC, Australia

P8 **A novel mechanism of clindamycin resistance in *Plasmodiu*m that does not transmit readily**
Jessica Home - School of Biosciences, The University of Melbourne, Melbourne, VIC, Australia

P9 **The identification of addiction to a human kinase inhibitor in *Plasmodium falciparum***
Tayla Williamson - Centre for Chronic Infectious and Inflammation Disease, Biomedical Sciences Cluster, School of

Health and Biomedical Sciences, RMIT University, Melbourne, VIC, Australia

P10 **Identifying the mechanism of action of a novel invasion-blocking compound in *Plasmodium falciparum***
Dawson Ling - Burnet Institute and The University of Melbourne, Melbourne, VIC, Australia

P11 **Bayesian within-host modelling of red blood cell dynamics and primaquine-induced haemolysis in G6PD deficiency**
Parinaz Mehdipour - Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, University of Melbourne, Melbourne, VIC, Australia

P12 **Glycosylation of *Plasmodium falciparum* thrombospondin repeats ensures mosquito transmission and sporozoite infectivity**
Justin Boddey - The Walter and Eliza Hall Institute of Medical Research and The Department of Medical Biology, University of Melbourne, Melbourne, VIC, Australia

P13 **Ultrastructure and function of nuclear microtubules in *Plasmodium falciparum* gametocytes**
Jiahong Li - Department of Biochemistry and Pharmacology, The University of Melbourne, Melbourne, VIC, Australia

P14 **A multiscale mathematical model of *Plasmodium vivax* transmission**
Md Nurul Anwar - School of Mathematics and Statistics, The University of Melbourne, Melbourne, VIC, Australia and Department of Mathematics, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh

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P15 **N/A**

P16 **Optimised sampling of *Plasmodium knowlesi* in Indonesia**

Lucinda Harrison - School of Mathematics and Statistics, The University of Melbourne, Melbourne, VIC, Australia

P17 ***Plasmodium vivax* malaria serological exposure markers: assessing the presence and implications of potential cross-reactivity with *P. knowlesi***

Rhea Longley - Population Health and Immunity Division, WEHI and The Department of Medical Biology, University of Melbourne, Melbourne, VIC, Australia

P18 **Alternate synthesis & evaluation of 2 aminobenzimidazole antimalarials**

Jomo K. Kigotho - Medicinal Chemistry, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC, Australia

P19 **i-bodies; fully human single domain antibodies are capable of identifying the conserved and conformational epitopes of Apical Membrane Antigen 1 from *Plasmodium falciparum***

Dimuthu Angage - Department of Biochemistry and Genetics, La Trobe Institute for Molecular Sciences, La Trobe University, Melbourne, VIC, Australia

P20 **Sustainability of a mobile phone application-based data reporting system in Myanmar's malaria elimination program: A qualitative study**

Kaung Myat Thu - Burnet Institute Myanmar, Yangon, Myanmar

P21 **Using Anopheles salivary antibody biomarkers to assess the effectiveness of personal insect repellent in Southeast Myanmar**

Ellen Kearney - Burnet Institute and Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, VIC, Australia

P22 **Investigating the *in vitro* stability profile of bistriazines, a potent novel antimalarial class**

Peiyuan Luo - Drug Delivery, Disposition and Dynamics, Global Health Therapeutic Program Area, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC, Australia

P23 **Anti-gametocyte humoral immunity and gametocyte carriage during treatment of uncomplicated falciparum malaria: A multi-national cohort study**
Katherine O'Flaherty - Burnet Institute, Melbourne, VIC, Australia

P24 ***P. falciparum*** **tyrosine tRNA synthetase as an antimalarial drug target**
Chiawei Tai - Bio21, Department of Biochemistry and Pharmacology, The University of Melbourne, Melbourne, VIC, Australia

P25 **Synthesis and biological evaluation of potent *Plasmodium falciparum* M1 & M17 aminopeptidase inhibitors with polar S1′ moieties**
Petar Calic - Medicinal Chemistry, Monash Institute of Pharmaceutical Sciences, Monash University, Melbourne, VIC, Australia

P26 **Antibody responses to *P. falciparum* transmission-stage antigens in participants following a human experimental malaria infection study**
Shirley Lu - Burnet Institute, and The Department of Medicine, University of Melbourne, Melbourne, VIC, Australia

P27 **Evaluating the effects of sorbitol synchronization of clinical and laboratory isolates of *Plasmodium falciparum* on their susceptibility to antimalarial compounds**
Frank Obeng Addae - Department of Biochemistry, Cell and Molecular Biology, University of Ghana, Legon, Ghana

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Synergy Team