

18-20 September 2024

## Hybrid Conference Programme

(BST)	(BST)	Presenter details		
Wednesday, 18 September 2024				
12:00	13:00	Registration, kunch and networking		
12:45	13:00	Brieling for session 1 speakers, microphone runners, chair, moderator & committee - Auditorium		
13:00	13:15	Welcome		
		Wellcome Connecting Science: Treasa Creavin, Connecting Science, UK Scientific Programme Committee: Sarah Aubum, Merzies School of Health Research, Australia Deus Ishengoma, National Institute for Medical Research, Tanzania Mara Lawniczak, Wellcome Sanger Institute, UK Daniel Vedisey, Harvard T.H. Chan School of Public Health, USA Vikki Stmpson, Welcome Sanger Institute, UK		
13:15	14:55	Session 1: Spatiotemporal genomic epidemiology of parasites and vectors		
		Crair: Sarah Audum, Merzels School of Health Research, Australia Moderator: Daniel Neafsey, Broad Institute, USA		
13:15	13:40	The Malaria Vector Genome Observatory – data, tools and training for genomic surveillance of Anopheles mosquitoes Anastasia Hernandez-Koutoucheva, Wellcome Sanger Institute, UK		
13:40	14:05	The utility of parasite population genetic data to monitor transmission dynamics: Insights from 20 years of surveillance in Papua New Guinea Alyssa Barry, Deakin University, Australia		
14:05	14:30	Establishing malaria genomic surveillance in far-west Africa Alfred Amambua Ngwa MRC, Gambia		
14:30	14:55	Strategic Use of Molecular Data for National Malaria Surveillance and Decision-Making Sarah Volkman, Harvard T.h. Chan School Of Public Health, USA & Daouda Ndiaye, CIGASS, Senegal		
14:55	15:30	Refreshment break and networking		
15:15	15:30	Brieling for session 2 speakers, chair & moderator - Auditorium		
15:30	16:50	Session 2: Drug, diagnostic and insecticide resistance		
		Chair: Deus Ishengoma, National Institute for Medical Research, Tanzania Moderator: Mara Lawniczak, Welcome Sanger Institute, UK		
15:30	15:55	Dissecting malaria parasites drug and diagnostic resistance through large scale genomics: implication for malaria control and elimination in Africa Abebe Fola, Brown University, USA (virtual presentation)		
15:55	16:20	Embedding mosquito genomics into vector control trials and implementation Martin Donnelly, Liverpool School of Tropical Medicine, UK		
16:20	16:35	Unraveling the genetic diversity and resistance profiles of P. falciparum in Southwestern Uganda: A low transmission setting Monica Mbabazi, Infectious Disease Research Collaboration, Uganda		
16:35	16:50	The Impact of switching first-line antimativials on drug-resistant Plasmodium faic/parum populations in the Greater Mekong Subregion Ethan Booth, Mahidol Oxford Tropical Medicine Research Unit (moru), Thailand		
16:50	17:30	Poster pitch talks for odd number posters Chair. Vikki Simpson, Wellcome Sanger Institute, UK		
17:30	19:00	Poster session 1 - odd number posters		
19:00	19:30	Speed networking		
19:30	21:00	Dinner		
19:30		Bar open (card payments only)		



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00:15     09:30     Briefing for Session 3 speakers, chair & moderator - Auditorium       09:30     11:20     Session 3: Genomic studies of species interactions       Chair. Mara Lawriczak, Welkoms Sanger Institute, UK Moderator: Sarah Auburn, Menzies School of Health Research, Australia	
09:30 11:20 Session 3: Genomic studies of species interactions Chair: Mara Lawniczak, Wellcome Sanger Institute, UK Moderator: Sarah Auburn, Menzies School of Heath Research, Australia	
Chair: Mara Lawniczak, Wellcome Sanger Institute, UK Moderator: Sarah Auburn, Menzies School of Health Research, Australia	
09:30 09:55 Exploring the history of human malaria using ancient DNA Megan Michel, Max Plank, Germany	
09:55 10:20 Using multi-prong approaches for tackling antimalarial resistance in Ghana Lucas Amenga-Etego, West African Centre for Ceil Biology of Infectious Pathogens, Ghana	
10:20 10:35 Defining immune escape polymorphisms in Plasmodium vivax: insights from the analysis of allelic turnover of 16 antigens in a longitudinal cohort of Papua New Guinean Alson Paolo Bareno, Burnet Institute Australia	shildren
10:35 10:50 Geographical analysis of the P-falciparum - sickle haemoglobin association at local and continental scales Gavin Band. Oxford University. UK	
10:50 11:05 Plasmodium falciparum establishes chronic infections through high var gene expression switching rate Antioine Classsens. University of Montoellier. France	
11:05 11:20 Plasmodium falciparum infection in the human host and the vector influences natural Anopheline biting behavior and parasite diversity Sophie Berube, University of Florida, USA	
11:20 12:00 Refreshment break and networking	
11:45 12:00 Briefing for Session 4 speakers, chair & moderator - Auditorium	
12:00 13:00 Session 4: Harmonising data standards and analysis resources for public health	
Chair: Bryan Greenhouse, University of California, USA Moderator: Daniel Neafsey, Broad Institute, USA	
12:00 12:05 Introduction Bryan Greenhouse, University of California, USA	
12:05 12:20 Tools for recurrence classification and marker evaluation Aimee Taylor, Institut Pasteur, France	
12:20 12:50 Interactive scenario: Can you prevent the spread of drug resistant malaria with your data analysis skills? Kathryn Murie, University of California, USA Sofonias Tessema, Africa Centres for Disease Control and Prevention, Ethopia Amy Wearchwei, Univer Swirker, Bloromers School Of Public Health USA	
and "you, the audience"	
12:50 13:00 Discussion and way forward	
12:50         13:00         Discussion and way forward           13:00         14:40         Lunch	
12:50     13:00     14:40     Lunch       14:25     14:40     Brieling for Session 5 speakers, chair & moderator - Auditorium	
12:50     13:00     Discussion and way forward       13:00     14:40     Lunch       14:25     14:40     Brieling for Session 5 speakers, chair & moderator - Auditorium       14:40     15:40     Session 5: Transmission and genetic surveillance of malaria: new methods, analyses and resources Chair Daniel Mealsoy, Broad Institute, USA	
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18-20 September 2024

Friday, 20 September 2024				
09:15	09:30	Briefing for Session 6 speakers, chair & moderator - Auditorium		
09:30	11:20	Session 6: Vector and parasites: neglected and emerging species		
		Chair: Alyssa Barry Deakin University, Australia Moderator: Dan Neafsey Harvard T.H. Chan School of Public Health, USA		
09:30	09:55	Molecular surveillance of Plasmodium vivax in Vietnam: Initial Findings and Prospective Challenges Nguyen Than Thuy Nhien, OUCRU, Vietnam		
09:55	10:20	Molecular surveillance of Plasmodium vivax in remote hard-to-reach communities from the Peruvian Amazon region: the last milestone to eliminate malaria Dionicia Gamboa, Universidad Peruana Cayetano Heredia, Peru		
10:20	10:35	Ad1000G: A comprehensive, range-wide evolutionary analysis of over 1000 whole genome sequences of Anopheles darlingi, the primary South American malaria vector Jacob Ternessen, Harvard TH Chan School of Public Health, USA		
10:35	10:50	Population genomics of Plasmodium malariae from four African countries Zach Popkin-Hall, University Of North Carolina, USA (virtual presentation)		
10:50	11:05	Updating the burden and drug resistance profiles of Plasmodium ovale species: a malaria elimination challenge Hoseah Akala, Kenya Medical Research Institute/WRAIR-A, Kenya		
11:05	11:20	A new chapter in the Malaria Cell Atlas: Insights into neglected malaria parasites, Plasmodium ovale and Plasmodium malariae from single-cell RNA-sequencing in Mali Sunil Kumar Dogga, Wellcome Sanger Institute, UK		
11:20	12:00	Refreshment break and networking		
11:45	12:00	Brieling for session 7 chair, moderator & committee - Auditorium		
12:00	13:00	Session 7: What next? Priorities for genomic epidemiology of malaria - panel discussion		
		Chair: Deus Ishengoma, National Institute for Medical Research, Tanzania Moderator: Vikki Simpson, Wellcome Sanger Institute, UK		
13:00	13:10	Closing remarks and award presentation		
		Scientific Programme Committee: Sarah Aubum, Menzias School of Health Research, Australia Deus Ishengrom, Natoral Institute for Medical Research, Tarzania Mara Lawniczak, Wellcome Sanger Institute, UK Daniel Nealsey, Harvard TH, Chans School of Public Health, USA Vikki Simpson, Wellcome Sanger Institute, UK		
13:10	14:00	Lunch and departures		
14:00		Coach departures for Stansted and Heathrow airports		
14:10		Coach departures for Cambridge train station and city centre		