

2nd South African Malaria Research Conference

Towards Malaria Elimination: Research, Innovation and Education 31 July - 2 August 2016, Pretoria, South Africa

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PROGRAMME

DAY 1 Sunday 31 July 2016		
Time	Event / Presentation title	Speaker
09:30 - 11:30	Registration (Tea / Coffee) (posters to be put up)	
11:30 - 11:40	Welcome and opening address	Tiaan de Jager <i>UP ISMC</i>
11:40 - 12:05	Setting the research agenda around malaria elimination	Lucille Blumberg <i>NICD</i>
12:05 - 12:30	Towards malaria elimination in the MOSASWA (Mozambique, South Africa and Swaziland) region	Patrick Moonasar <i>NDoH</i>
12:30 - 13:30	Lunch (posters to be put up)	
Session 1 13:30 - 17:00	Human and environmental aspects: Cross-border, regional control, health promotion, malaria education and surveillance <i>Session Chairs: Tiaan de Jager (UP ISMC) & Patrick Moonasar (NDoH)</i>	
13:30 - 13:50	Malaria Case Management in the context of Malaria Elimination: The role of the population at risk	Sunday Ukpe <i>DoH Mpumalanga</i>
13:50 - 14:10	Residual Malaria: Changed mind-sets to quell the seeds of failure	Leo Braack <i>UP ISMC</i>
14:10 - 15:00 4 orals 10 minutes talk, 2 minutes Q&A and/or discussion	Could a song about malaria prevention help protect children under five in Venda rural communities?	Chad Anderson <i>UP ISMC</i>
	Focus on malaria in education in South Africa	June Petersen <i>UP ISMC</i>
	Malaria deaths: Meeting the 2015 near zero target in South Africa	Eunice Misiani <i>NDoH</i>
	Targeting foci of transmission towards elimination of malaria in South Africa	Natashia Morris <i>MOMR / UP ISMC</i>
15:00 - 15:30	Tea / Coffee (posters to be put up)	

<p>15:30 - 17:00 7 orals</p> <p>10 minutes talk, 2 minutes Q&A and/or discussion</p>	The impact of malaria program interventions and climate change on mortality and morbidity rates between 2009 and 2016 in Limpopo Province: Preliminary findings	Lactatia Motsuku <i>NDoH / UP ISMC</i>
	Travel patterns and demographic characteristics of malaria cases, the case study of Swaziland's active surveillance system, 2010-2014	Deepa Pindolia <i>CHAI</i>
	Operational factors associated with increased detection of infections for reactive case detection (RACD) in Swaziland	Khayelihle Bhangu <i>NMCP Swaziland</i>
	A study to identify high malaria risk groups and the associated risk factors using a programmatic tool: Malaria elimination risk factor assessment	Erastus Haindongo <i>Uni Namibia</i>
	Imported cases, sporadic outbreaks and resurgence are the highest threats to malaria elimination in the E8 region	Kaka Mudambo <i>SARN - RBM</i>
	The contribution of a sustainable volunteer base on cross-border malaria elimination: An impact assessment	Constance Njovu <i>FCBMI</i>
	Facilitating factors and barriers to malaria research utilization for policy development in Malawi	Chikondi Mwendera <i>UP ISMC</i>
Cocktail welcoming		
17:00 for 17:30	At conference venue	Welcoming page for programme
17:30 - 20:00	VIP guest speakers, entertainment, cocktail dinner and networking	

DAY 2 Monday 1 August 2016		
Time	Event / Presentation title	Speaker
07:30 - 08:30	Registration (Tea / Coffee)	
Session 2 08:30 - 12:15	Biology and epidemiology of the malaria parasite and transmission blocking Session Chairs: Karen Barnes (UCT) & Erick Strauss (SU)	
08:30 - 08:50	Seeing the wood for the trees: Malaria parasite systems biology and how it aids antimalarial drug discovery	Lyn-Marie Birkholtz UP ISMC
08:50 - 09:10	Mutant Malaria Parasites: An Overview on their Genetics, Origins and Spread	Jaishree Raman NICD
09:10 - 10:15 5 orals 10 minutes talk, 2 minutes Q&A and/or discussion	Comparing canine <i>Babesia rossi</i> with human falciparum malaria	Andrew Leisewitz UP ISMC
	Starving malaria: Targeting nutrient uptake in the sexual, transmissible stages of <i>Plasmodium falciparum</i> parasites	Jandeli Niemand UP ISMC
	<i>Plasmodium falciparum</i> gametocytes show stage-specific, chemotype specific transcriptional response to drug perturbation	Riëtte van Biljon UP ISMC
	Synthesis and biological evaluation of heteroaromatic inhibitors of <i>Plasmodium falciparum</i>	Amanda Rousseau WITS
	A comparative, transcriptomic analysis of the effects of a lead clinical candidate on the asexual and gametocyte stages of <i>Plasmodium falciparum</i> parasites	Jessica Connacher UP ISMC
10:15 - 10:45	Tea / Coffee Poster session (Odd numbered posters)	
10:45 - 12:15 7 orals 10 minutes talk, 2 minutes Q&A and/or discussion	Quantitative profiling of the <i>Plasmodium falciparum</i> parasite's histone posttranslational modification landscape during sexual differentiation	Nanika Coetzee UP ISMC
	Cross-reactivity of oxidant drugs against asexual and gametocyte stages in <i>Plasmodium falciparum</i> parasites	Dina Coertzen UP ISMC
	Heterogeneity of <i>Plasmodium falciparum</i> malaria in Matabeleland south: Analysis travel history reported by malaria cases reported in routine surveillance	Gladwin Muchena MHCC
	Assessing risk factors associated with <i>Plasmodium falciparum</i> exposure using serological data in Bushbuckridge municipality, Mpumalanga Province, South Africa	Eunice Agubuzo WRIM
	Prevalence of glucose-6-phosphate dehydrogenase (G6PD) deficient phenotypes and genotypes at select point of care health settings in Vhembe District, Limpopo Province, South Africa	Shehu Awandu UP ISMC
	Heterogeneity of <i>Plasmodium falciparum</i> transmission in north-eastern South Africa: Implications for malaria elimination	Joe Biggs NICD
	Infection of African malaria vector mosquitoes with <i>Plasmodium falciparum</i> malaria parasites	Annette Bennette WRIM
12:15 - 13:30	Group photo followed by Lunch Poster session (Odd numbered posters)	

Session 3 13:30 - 17:00 Biology and epidemiology of the malaria vector and remote sensing Session Chairs: Basil Brooke (WRIM) & Leo Braack (UP ISMC)		
13:30 - 13:50	Perspectives on translating research into malaria vector control	Basil Brooke <i>WRIM</i>
13:50 - 14:10	Spatio-temporal dynamic of asymptomatic malaria in a sahelian environment	Jean Gaudart <i>Aix-Marseille Uni</i>
14:10 - 15:00 4 orals 10 minutes talk, 2 minutes Q&A and/or discussion	<i>Anopheles arabiensis</i> habitat suitability model spatially predicts malaria hotspots in Zimbabwe	Isaiah Gwitira <i>Uni Zimbabwe</i>
	Is <i>Anopheles vaneedeni</i> a vector of malaria in South Africa?	Ashley Burke <i>NICD</i>
	Analysis of the esterase enzymes activity in <i>Anopheles funestus</i> adults	Lizette Koekemoer <i>WRIM</i>
	Modelling the spatio-temporal dynamics of mosquitoes and its response to SIT control	Claire Dufourd <i>UP ISMC</i>
15:00 - 15:30	Tea / Coffee and poster session	
15:30 - 17:00 5 orals 10 minutes talk, 2 minutes Q&A and/or discussion	The effects of agrochemicals on the life history and insecticide resistance phenotype of the major malaria vector <i>Anopheles arabiensis</i> (Diptera: Culicidae)	Shune Oliver <i>NICD</i>
	Monitoring insecticide resistance in the <i>Anopheles gambiae</i> complex from Kwazulu-Natal, South Africa	Mohlominyana Mofokeng <i>WRIM</i>
	Selecting most efficient targets for spatially focused interventions: Malaria incidence versus population mobility	Sallah Kankolé <i>Aix-Marseille Uni</i>
	Evaluating effects of Landsat-derived environmental covariates for predicting malaria distribution in rural villages of Vhembe District, South Africa	Oupa Malahlela <i>SANSA / UP ISMC</i>
	Analysing trends and forecasting malaria epidemics in Madagascar using a sentinel surveillance network: A web-based application	Girond Florian <i>IPM</i>
Gala function		
17:30 for 18:00	Protea Manor Hotel, Hatfield	Welcoming page for programme
18:00 - 21:00	VIP guest speakers, entertainment, buffet dinner and networking	

DAY 3 Tuesday 2 August 2016		
Time	Event / Presentation title	Speaker
07:30 - 08:30	Registration (Tea / Coffee)	
Session 4 08:30 - 12:00	Alternative methods and novel interventions for malaria vector control Session Chairs: Rajendra Maharaj (MOMR) & Lizette Koekemoer (WRIM)	
08:30 - 08:50	New approaches towards malaria vector control	Walter Focke <i>UP ISMC</i>
08:50 - 09:10	Impact of the Lubombo spatial development initiative after twelve years in southern Mozambique	Rajendra Maharaj <i>MOMR</i>
09:10 - 10:00 4 orals 10 minutes talk, 2 minutes Q&A and/or discussion	Pyrethroid-impregnated wall linings: Three years post installation durability, user acceptability, perceived effectiveness, and laboratory confirmed efficacy	Mildred Ramothole <i>UP ISMC</i>
	Sustained release of repellent mixtures through engineering the molecular interactions	Homa Izadi <i>UP ISMC</i>
	Microporous polyolefins as controlled release devices for mosquito repellents	Mthokozisi Sibanda <i>UP ISMC</i>
	Planning of housing improvement interventions for malaria elimination in Swaziland	Mathokoza Sibandze <i>NMCP Swaziland</i>
10:00 - 10:30	Tea / Coffee Poster session (Even numbered posters)	
10:30 - 12:00 7 orals 10 minutes talk, 2 minutes Q&A and/or discussion	Environmental problems with DDT as used in malaria control	Hindrik Bouwman <i>NWU</i>
	The potential use of serious games in malaria control and elimination programmes	Marlize Coleman <i>LSTM</i>
	The larvicidal and brine shrimp activities of eugenol and five derivatives	Nelusha Shunmoogam-Gounden <i>WITS</i>
	Field effectiveness of microbial larvicides on mosquito larvae in malaria areas of Botswana and Zimbabwe	Mulamuli Mpofu <i>UP ISMC</i>
	A review of the sterile insect technique for the control of malaria vectors in South Africa	Givemore Munhenga <i>NICD</i>
	Attacking the mosquito on multiple fronts: Insights on optimal combinations of vector control interventions for malaria elimination from a mathematical model	Samson Kiware <i>IHI</i>
	Mathematical modelling guiding elimination in the Asia-Pacific region and its potential in Africa	Sheetal Silal <i>UCT</i>
12:00 - 13:30	Lunch & Poster session Poster session (Even numbered posters) Elimination 8 meeting (13:00)	

Session 5 13:30 - 15:30		
Interventions against the malaria parasite <i>Session Chairs: Lyn-Marie Birkholtz (UP ISMC) & Jaishree Raman (NICD)</i>		
13:30 - 13:50	Antimalarial drug discovery at H3D	Kelly Chibale <i>H3D</i>
13:50 - 14:10	Current state of development of pantothenamides as anti-plasmodial agents	Erick Strauss <i>Stellenbosch Uni</i>
14:10 - 15:20 6 orals 10 minutes talk, 2 minutes Q&A and/or discussion	Dynamic evaluation of potential transmission blocking antiplasmodials: Rate and stage-specific descriptions of gametocytocidal compounds	Janette Reader <i>UP ISMC</i>
	Digital image analysis for determining malaria parasite density in thick blood films	John Frean <i>NICD</i>
	Using a risk based approach to develop a quality manual for public health institutions undertaking investigator-led antimalarial drug clinical research in South Africa	Cordelia Leisegang <i>UCT</i>
	Bioprospecting traditionally used antimalarial plants by means of NMR-based metabolomics	Johanna Bapela <i>UP ISMC</i>
	Novel drug scaffolds for the treatment of multi-drug resistant <i>Plasmodium falciparum</i>	Jenny-Lee Panayides <i>CSIR</i>
	The molecular determinants for trafficking of ama-1, a malaria invasion protein and vaccine candidate	Alisje Churchyard <i>WRIM</i>
15:20 - 15:25	Wrapping up and summary of the conference	Rajendra Maharaj <i>MOMR</i>
15:25 - 15:30	Closing of conference	Tiaan de Jager <i>UP ISMC</i>
15:30 - 16:00	Collection of posters	

Acronym / Initialism	Affiliation and Country
Aix-Marseille Uni	Aix-Marseille University, France
CSIR	Council for Scientific and Industrial Research, South Africa
DoH Mpumalanga	Department of Health Mpumalanga, South Africa
E8	Elimination 8, Namibia
FCBMI	Flowers Cross Border Malaria Initiative, United States of America
H3D	Drug, Discovery and Development Centre, UCT, South Africa
IHI	Ifakara Health Institute, Tanzania
IPM	Institute Pasteur de Madagascar, Madagascar
LSTM	Liverpool School of Tropical Medicine, United Kingdom
MHCC	Ministry of Health and Child Care, Zimbabwe
MOMR	Medical Research Council (MRC) Office of Malaria Research, South Africa
NDoH	National Department of Health, South Africa
NICD	National Institute for Communicable Diseases, South Africa
NMCP Swaziland	National Malaria Control Programme, Swaziland
NWU	North-West University, South Africa
SANSA	South African National Space Agency, South Africa
SARN - RBM	Southern Africa Regional Network - Roll Back Malaria, Botswana
SU	Stellenbosch University, South Africa
UCT	University of Cape Town, South Africa
Uni Namibia	University of Namibia, Namibia
UP ISMC	University of Pretoria Institute for Sustainable Malaria Control, South Africa
Uni Zimbabwe	University of Zimbabwe, Zimbabwe
WITS	University of the Witwatersrand, South Africa
WRIM	WITS Research Institute for Malaria, South Africa