

# 3<sup>RD</sup> SOUTHERN AFRICA MALARIA RESEARCH CONFERENCE PROGRAMME

Tuesday, 7 November 2017		
8:00 – 9:30	Registration	
9:30 – 10:00	Opening	<b>Prof Lucille Blumberg</b> <i>Deputy-Director: Epidemiology &amp; Medical Consultant, Centre for Emerging and Zoonotic Diseases</i>
10:00-10:30	<b>Plenary 1</b>	<b>Dr Richard N. Kamwi</b> <i>E8 Ambassador</i>
<b>Thematic Area: Regional and Residual Malaria</b> <b>Chairperson: Prof C de Jager</b>		
10:30 – 10:45	Ms E Wime	Impact of Community Mobilization on Cross Border Importation of Malaria in Southern Angola and Northern Namibia
10:45 – 11:00	Mr C Mwendera	Malaria Research in Malawi from 1984 to 2016: A literature review and bibliometric analysis
11:00 – 11:15	Dr D Moonasar	Profiling malaria in the Southern African Development Community (SADC) between 2013 and 2016
11:15 – 11:30	Dr SI Oyedeji	Molecular investigation of sub-microscopic and mixed Plasmodium species infection in North-central Nigeria
11:30 – 11:45	Mr S Katokele	Identifying drivers of transmission in outbreak-declared areas of northern Namibia in 2016 and 2017
11:45 – 12:00	Dr M Macherera	The level of utilisation of indigenous knowledge on malaria in Gwanda district Zimbabwe
12:00 - 13:00	<b>LUNCH AND POSTERS</b>	
<b>Thematic Area: Parasite Biology</b> <b>Chairperson: Prof L Koekemoer</b>		
13:00 – 13:15	Mrs N Coetzee	Exploiting the epigenomic and proteomic complexity of Plasmodium falciparum gametocytogenesis
13:15 – 13:30	Dr A Bennett	Progress with Infection studies with the malaria parasite, Plasmodium falciparum in Anopheles arabiensis at the Wits Research Institute for Malaria.
13:30 – 13:45	Mrs J Duvenhage	Zirconium-89 radiolabelling and pre-clinical imaging of Plasmodium-specific antibody bioconjugate aimed at the clinical tracking of malaria infections
13:45 – 14:00	Dr B Brider	Pleiotropic antimalarial polyamine analogues: resisting resistance
14:00 – 14:15	Ms R Biljon	Two roads diverged in a yellow wood: Unravelling the molecular proliferation and differentiation signals of Plasmodium falciparum parasites
14:15 – 14:30	Mr R van Wyk	Gene model assessment of Plasmodium falciparum gametocytes through RNA-sequencing
14:30 – 14:45	Dr P Moyo	Final-Bioassay-guided isolation, identification and biochemical characterisation of gametocytocidal compounds from Artemisia afra (Asteraceae)
14:45 – 15:00	Mrs M van der Watt	Potent Plasmodium falciparum gametocytocidal compounds identified by exploring the kinase inhibitor chemical space for dual active antimalarials.

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15:00 – 15:15	Ms S Shunmugam	Trafficking of merozoite adhesive erythrocyte binding-like protein in the human malaria parasite, <i>Plasmodium falciparum</i>
15:15 – 15:30	<b>TEA</b>	
	<b><i>Thematic area: Research Allocation and Advocacy</i></b> <b><i>Chairperson: Dr S Dlamini</i></b>	
15:30 – 15:45	Dr K Hlongwana	Factors influencing the implementation of the malaria elimination policy in South Africa
15:45 – 16:00	Mrs A Jacobs	Malaria awareness and prevention: teachers developing rural learners to become messengers of health
16:00 – 16:15	Dr T Kruger	Malaria Buddy App - Using modern cellular technology to inform and educate
16:15 – 16:30	Ms A van der Walt	Stakeholder perceptions of science communication at the University of Pretoria Centre for Sustainable Malaria Control: A challenge to ensure effective communication to enable successful collaboration
		Close of Day 1
<b>17:30 for 18:00</b>	<b>Welcoming Cocktail Evening</b>	

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Wednesday, 8 November 2017		
8:00 – 8:30	Plenary 2	Dr Jaishree Raman <i>Medical Scientist</i> “Strong selection for Lumefantrine tolerant parasite – A South African or African concern?”
		<b>Thematic Area: Surveillance</b> <b>Chairperson: Mr B Dlamini</b>
8:30 – 8:45	Mr E Mabunda	Malaria Outbreak Response Assessment in Limpopo Province, South Africa, 2017
8:45 – 9:00	Dr N Morris	Assessment of the functional status of foci of local malaria transmission in KwaZulu-Natal and Mpumalanga following revision of WHO foci criteria and the malaria outbreak of the 2016/2017 season
9:00 – 9:15	Ms M Nghipumbwa	Evidence-based decisions for malaria elimination: Design and implementation of DHIS2-based dashboards in Namibia
9:15 – 9:30	Mariana Da Silva	Toward the development of an epidemiologically appropriate surveillance system for Mozambique
9:30 – 9:45	Mr B Dube	Results for Malaria Indicator Survey in Zimbabwe, 2016: Progressing towards malaria elimination in 2030
9:45 – 10:00		<b>TEA</b>
		<b>Thematic area: Surveillance</b> <b>Chairperson: Dr N Morris</b>
10:00 – 10:15	Mr C Davies	Effectiveness of 24-hour mobile reporting tool during a malaria outbreak in Mpumalanga Province, South Africa.
10:15 – 10:30	Mrs Y Luther	Assessment of the Implementation of the Malaria Elimination Strategy in the West Rand District, Gauteng Province.
10:30 – 10:45	Dr E Pillay	Automated Diagnosis of Malaria: A Key Component in Eliminating the Disease?
10:45 – 11:00	Mr N Venter	Benchmarking insecticide resistance intensity bioassays for Anopheles malaria vector species against resistance phenotypes of known epidemiological significance
11:00 – 11:15	Dr T Kruger	Developing an integrated modelling and surveillance system based on climate, land use and malaria transmission dynamics in the eastern Limpopo River valley of South Africa
11:15 – 11:30	Mr B Dube	Catalysing data use in the malaria elimination settings? The design and implementation of DHIS2-based dashboards in Zimbabwe.
11:30 – 11:45	Ms B Shandukani	Epidemiological analysis of malaria cases in the three endemic provinces of south Africa, 2000-2016
11:45 – 12:00	Dr N Sweijd	A climate-based early warning prediction system for malaria in Limpopo South Africa - the iDEWS project
12:00 – 13:00		<b>LUNCH AND POSTERS</b>
		<b>Thematic area: Vector Control &amp; Integrated Vector Management</b> <b>Chairperson: Prof L Braack</b>
13:00 – 13:15	Mr T Madzorera	Development of a long lasting organophosphate impregnated tri-layer film for use as a mosquito control intervention in pyrethroid resistant settings

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13:15 – 13:30	Mr J Zawada	Functional genomics of male <i>Anopheles funestus</i> genitalia rotation.
13:30 – 13:45	Mr S Katokele	Lessons Learned during Implementation of Housing Improvements to Prevent Malaria in Namibia
13:45– 14:00	Prof E Rohwer	A new method for the collection and comparison of human skin volatile chemicals
14:00 – 14:15	Prof W Focke	The chemical engineering of malaria vector control products
14:15 – 14:30	Prof R Maharaj	Field evaluation of a new combination insecticide as a replacement for DDT
14:30 – 14:45	<b>TEA</b>	
<b>Thematic area: Vector Control &amp; Integrated Vector Management</b>		
<b>Chairperson: Prof R Maharaj</b>		
14:45 – 15:00	Ms A Burke	Which members of the <i>Anopheles funestus</i> species group are vectors of malaria in South Africa?
15:00 – 15:15	Prof L Braack	The use of systemic insecticides in cattle for outdoor targeting of malaria vectors
15:15 – 15:30	Mrs E Agubuzo	<i>Anopheles arabiensis</i> irradiation dose response comparison between a wild-type strain and its corresponding genetic sexing strain
15:30– 15:45	Mr A Jeanrenaud	Biological consequences of larval metal pollution on the life history of the major malaria vector <i>Anopheles arabiensis</i>
15:45 – 16:00	Dr S Oliver	The effects of two common herbicides on the life history of the major malaria vector <i>Anopheles arabiensis</i>
<b>17:30 for 18:00</b>	<b>GALA DINNER</b>	
<b>18:00 - 21:00</b>	<b>VIP guest speakers, entertainment, buffet dinner and networking</b>	

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Thursday, 9 November 2017		
8:00 – 8:30	<b>Plenary 3</b>	<b>Dr. Shiva Murugasampillay</b> <i>Public Health Physician &amp; Disease Control and Elimination Specialist Global Public Health (Freedom from Disease and Health for All)</i>  “Integrated Malaria Elimination and Universal Health for All”
		<b>Thematic Area: Pharmacology</b> <b>Co-Chairs: Dr Bianca Brider and Dr D Coertzen</b>
8:30 – 8:45	Dr S Egieyeh	Integrated Computational Pharmacology and Chemoinformatics drug development workflow: Enhancing optimization of 'antimalarial natural products' to 'antimalarial clinical candidates'
8:45 – 9:00	Ms L Damadeu	3-phenylpyridin-4(1H)-one derivatives targeting the cytochrome bc1 Qi site shows antiplasmodial activity
9:00 – 9:15	Dr MA Islam	Plasmodium falciparum dihydrofolate reductase-thymidylate synthase inhibitors: identification using pharmacoinformatics approaches
9:15 – 9:30	Ms C Sungkapreecha	Long-lasting mosquito repellent tool: DEET entrapped in biopolymer
9:30 – 9:45		<b>TEA</b>
		<b>Presentations by Sponsors</b> <b>Chairperson: Mr V Lakan</b>
9:45 – 10:00		Goodbye Malaria
10:00 – 10:15		Syngenta
10:15 – 10:30		Bayer
10:30 – 10:45		Alere Healthcare
		<b>Thematic Area: Research Capacity and Strengthening</b> <b>Chairperson: Dr T Kruger</b>
10:45 – 11:00	Dr S Dlamini	Malaria Research Challenges in Low Transmission settings: Implications for Malaria Elimination
11:00 – 11:15	Dr E Allen	Surviving an MCC regulatory inspection at a research-na?ve malaria clinical trial site
11:15 – 11:30	Dr R Pillay	Lifelong Education: An assessment of students? knowledge of Malaria at a rural university in Southern Africa
11:30 – 11:45	Dr I S Ukpe	Taking malaria case management education to households in Matsulu to combat late presentation
11:45 – 12:00	Dr J Kerr	The effectiveness of malaria health education provided to pregnant women by nurses at a selected health centre in Rwanda
12:00 – 13:00		<b>LUNCH AND CLOSING REMARKS</b>