



**5<sup>th</sup> ANNUAL SOUTHERN AFRICA MALARIA RESEARCH  
CONFERENCE**

***“COOPERATION FOR ELIMINATION”***

**30 JULY – 1 AUGUST 2019**

**VENUE: FUTURE AFRICA, UNIVERSITY OF PRETORIA**

**PROGRAMME ORAL PRESENTATIONS**



**UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
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**UP ISMC**

**UNIVERSITY OF PRETORIA  
INSTITUTE FOR SUSTAINABLE MALARIA CONTROL**

**DAY 1: TUESDAY, 30 JULY 2019**

<b>DAY 1: TUESDAY, 30 JULY 2019</b>		
7:30 – 9:00	<b>Registration and Tea</b>	
9:00 – 9:10	Welcome	Prof C de Jager
9:10 – 9:30	Opening	Dr Y Pillay
9:30 – 9:45	Progress towards Malaria Elimination in South Africa	Prof L Blumberg
9:45 – 10:00	Setting the scene: Overview of Malaria Control in South Africa	Dr D Moonasar
10:00 – 10:30	<b>TEA</b>	
<b>Thematic Area: Vector Control</b> <b>Chairperson: Dr Givemore Munhenga</b>		
10:30 – 10:50	Suppression of adult mosquito densities using microbial larvicides creates public health opportunities towards malaria elimination: Experimental results from semi-arid rural areas of Botswana and Zimbabwe	Dr M Mpofu (UP)
10:50 – 11:10	Mosquito repellent thermal stability and air volatility in neat form and from polyethylene strands	Mr AB Mapossa (UP)
11:10 – 11:30	Progress on the development of sex-separation techniques for SIT applications against <i>Anopheles arabiensis</i>	Mr T Mashatola (NICD)
11:30 – 11:50	Chemical profiling of the human skin surface for malaria vector control using a non-invasive sorptive sampler	Ms M Wooding (UP)
11:50 – 12:10	Characteristics of the life history parameters of a laboratory reared <i>Anopheles funestus</i> colony	Mr MP Zengenene (WITS)
12:10 – 12:30	The effect of multiple blood-feeding insecticide resistance intensity in the major malaria vector <i>Anopheles funestus</i>	Dr SV Oliver (NICD)
12:30 – 12:50	In vitro validation of naphthylisoquinoline alkaloids as hit antiplasmodial natural product compounds	Dr P Moyo (UP)
12:50 – 13:10	Alternative insecticides for indoor residual spraying	Prof R Maharaj (SAMRC)
13:10 – 14:30	<b>LUNCH &amp; POSTER VIEWING</b>	

**Thematic Area: Parasite & Parasite Control**

**Chairperson: Mr Wayne Ramkrishna**

14:30 – 14:50	Exploring the kinase inhibitor chemical space for dual active and gametocyte-focussed antimalarials	Dr M van der Watt (UP)
14:50 – 15:10	Epigenetic control of <i>P. falciparum</i> gametocyte development through unique repressive markers of gene expression	Ms J Connacher (UP)
15:10 – 15:30	Mechanistic investigation of a novel artemisinin-based combination therapy that targets <i>P. falciparum</i> parasites	Ms M Dilebo (UP)
15:30 – 15:50	<b>TEA</b>	
15:50 – 16:10	Drug treatment of severe malaria in HIV infected patients in a tertiary hospital setting in Soweto	Dr MD Muhammad Dandare (WITS)
16:10 – 16:30	Translating operational research into policy: assessing the progress and challenges with the roll-out of single low-dose primaquine in South African districts targeting malaria elimination	Dr J Raman (NICD)
16:30 – 16:50	The anticholinesterase effects of camphor on <i>Anopheles</i>	Mr TA Rants'o (WITS)
<b>CLOSE OF DAY 1</b>		

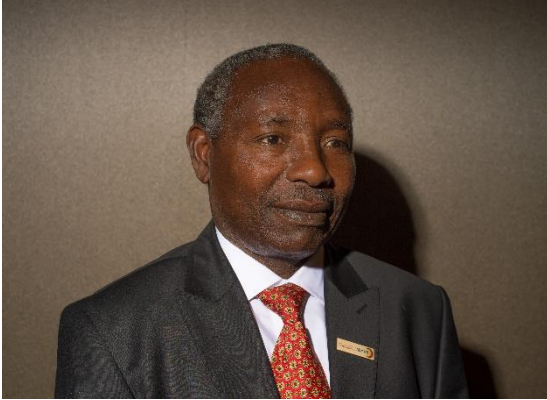
**DAY 2: WEDNESDAY, 31 JULY 2019**

<b>DAY 2: WEDNESDAY, 31 JULY 2019</b>		
8:00 – 8:30	<b>TEA</b>	
8:30 – 9:00	<b>Plenary</b> “Co-operation for Elimination: ALMA’s Perspective”	Dr A Mnzava
<b>Thematic area: Surveillance</b> <b>Chairperson: Ms Bridget Shandukani</b>		
9:00 – 9:20	Revising the national malaria risk map for South Africa	Dr N Morris (SAMRC)
9:20 – 9:40	Tracking of weekly malaria trends using real time reporting tool to identify outbreaks in SA, 2015-2019	Ms E Baloyi (NDoH)
9:40 – 10:00	Near-real-time monitoring of artemisinin and partner drug resistance using routine surveillance data from Nkomazi-Sub-District, Ehlanzeni, Mpumalanga	Dr FMK Kagoro (UCT)
10:00 – 10:20	Use of REDCap™ to develop a database for routine entomological surveillance	Mrs LN Lobb (WITS)
10:20 – 10:40	New biomarkers for the anti-peptide antibody diagnosis of <i>P.falciparum</i> , <i>vivax</i> and <i>knowlesi</i> malaria	Prof JPD Goldring (UKZN)
10:40 – 11:00	<b>TEA</b>	
<b>Thematic Area: Regional Malaria</b> <b>Chairperson: Prof Immo Kleinschmidt</b>		
11:00 – 11:20	Reactive focal interventions for malaria elimination: results from a cluster randomised trial	Prof I Kleinschmidt (LSHTM)
11:10 – 11:30	Utility of cross-border mobile clinics as an elimination intervention in South Africa, 2019	Ms E Baloyi (NDoH)
11:30 – 11:50	Key to successful cross border social and behaviour change communication: Lessons learnt from border regions in Zambia	Ms C Njovu (Isdell Flowers)
11:50 – 12:10	Using genotyping to investigate a fatal outbreak of Odyssean malaria in Gauteng province, 2019	Prof J Freen (NICD)
12:10 – 12:30	Accelerating for Impact in the MoSaSwa region	Dr N Morris (SAMRC)

12:30 – 12:50	Prevalence and factors associated with malaria infection in children under the age of 5 years in Mozambique: a secondary analysis of 2015 IMASIDA and 2018 MIS datasets	Dr AC Cassy (National Institute of Health)
12:50 – 13:10	Evidence-based tools to support decision making for malaria elimination	Dr SP Silal (UCT)
13:10 – 14:30	<b>LUNCH &amp; POSTER VIEWING</b>	
<b><i>Thematic Area: Education and Health Promotion</i></b> <b><i>Chairperson: Mr Vishan Lakan</i></b>		
14:30 – 14:50	Malaria education for children with disabilities could contribute greatly to a larger malaria education programme in Limpopo River Valley, South Africa	Dr T Kruger (UP)
14:50 – 15:10	Developing a programme to educate young children about malaria to effect behavioural change – pre-intervention findings	Mr C Anderson (UP)
15:10 – 15:30	“Why isn’t my house being sprayed anymore?”: A cross-sectional survey of knowledge, attitudes and practices about malaria, among adults visiting a Community Health Centre in Bushbuckridge, Mpumalanga, South Africa	Dr EB Mphaphuli (UP)
15:30 – 15:50	Community driven malaria control and elimination produce results on malaria and beyond	Ms E Wime (TKMI, Isdell Flowers)
15:50 – 16:00	House-keeping	
<b>CLOSE OF DAY 2</b>		
17:30 – 21:00	Conference Dinner and Launch of National Malaria Strategic Plan	

**DAY 3: Thursday, 1 AUGUST 2019**

<b>DAY 3: Thursday, 1 AUGUST 2019</b>		
8:00 – 8:30	<b>TEA</b>	
8:30 – 9:00	<b>Plenary</b> The role of Co-operation in achieving Elimination in Southern Africa	Dr J Chimumbwa
<b>Thematic area: Innovation for Elimination</b> <b>Chairperson: Prof Rajendra Maharaj</b>		
9:00 – 9:20	The University of Pretoria Institute for Sustainable Malaria Control as a vehicle to address the Sustainable Development Goals	Prof C de Jager (UP)
9:20 – 9:40	Evaluation of a deep machine learning-based automated malaria microscope	Mrs C Hamman (NICD)
9:40 – 10:00	Using an Investment Case to mobilise resources for malaria elimination in South Africa	Ms A Kollipara (UC)
10:00 – 10:20	Assessing the correlation between malaria case mortality rates and specific socio-economic factors	Mr RH Coetzer (UP)
10:20 – 10:45	<b>TEA</b>	
<b>PANEL DISCUSSION</b>		
10:45 -12:00	Translating Research into Policy	Dr J Raman, Prof K Barnes, Prof LM Birkholtz, Prof L Koekemoer and Prof R Maharaj
12:00 – 12:15	Presentation of Awards	
12:15 – 12:30	Closing of conference	
12:30 – 14:00	<b>LUNCH</b>	



### **Dr Abraham Mnzava**

Dr Abraham Mnzava is a renowned malaria expert with a focus on prevention and control. He retired as the Coordinator of the Entomology and Vector Control unit in the World Health Organization (WHO) Global Malaria Programme in July 2016.

### **Dr John Chimumbwa**

Dr John Chimumbwa boasts of more than 29 years of experience in managing public health programs across the continent of Africa. He is currently the Executive director of the SADC Malaria Elimination & Secretariat.





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