



**South African Society for  
Basic and Clinical  
Pharmacology**

## 53rd Annual Conference of the South African Society for Basic and Clinical Pharmacology Programme

Accredited by the SA Medical Association; any comments on the content  
of the presentations or CPD points allocated can be directed to [cpd@samedical.org](mailto:cpd@samedical.org)



*This programme is partially sponsored through sponsorships by Analytical & Diagnostic Products, Anatech, Apex Scientific, Biocom Africa, GeneWay, Inqaba Biotech, Microsep, MSD, Novartis, Sartorius, Separations, South African Society for Basic and Clinical Pharmacology, United Scientific and The Scientific Group*

Saturday, 5 October		
07h00 - 08h00	Registration	
08h00 - 08h10	Opening of conference	Prof V Steenkamp University of Pretoria
<b>Session 1: Drug development and Young Pharmacologist Competition (2 level 1 CEU points)</b>		<b>Chair: Prof AD Cromarty</b>
08h10 - 09h10	Non-clinical drug safety testing in the development cycle of medicines	Prof V Naidoo University of Pretoria
09h10 - 09h25	1 Bioanalysis of the Geneva phenotyping cocktail in whole blood collected with volumetric absorptive microsampling by LC-MS/MS	Mrs M Leuschner University of Pretoria
09h25 - 09h40	2 Detection and quantification of different endogenous cardiotonic steroids by liquid chromatography tandem mass spectrometry	Mrs ZF Masso University of Pretoria
09h40 - 09h55	3 Development and validation of a liquid chromatography mass spectrometry assay for the determination of bedaquiline (a multi drug-resistant tuberculosis treatment drug) and its M2 metabolite in peripheral blood mononuclear cells	Ms P Ngwalero University of Cape Town
09h55 - 10h10	4 Determination of unbound concentrations of efavirenz, lopinavir, and ritonavir in human plasma using ultracentrifugation and liquid-chromatography/tandem mass spectrometry	Ms KR Kriegler University of Cape Town
10h10 - 10h30	<b>Tea and poster-viewing (sponsored by Inqaba Biotech)</b>	
<b>Session 2: Young Pharmacologist Competition (2 level 1 CEU points)</b>		<b>Chair: Prof H Reuter</b>
10h30 - 10h45	5 Determination of rifapentine and 25-O-desacetyl rifapentine from human breastmilk by liquid chromatography tandem mass spectrometry	Ms B Mkhize University of Cape Town
10h45 - 11h00	6 The pharmacokinetics of crushed levetiracetam administered to neonates	Dr V Pillay-Fuentes Lorente Stellenbosch University
11h00 - 11h15	7 Cardiovascular risk assesment and the effects of oral hypoglycaemic drugs on arterial elasticity in type 2 diabetic mellitus patients at Dr George Mukhari Academic Hospital	Mrs TL Rasakanya Sefako Makgatho University
11h15 - 11h30	8 Incident tuberculosis (TB) disease among patients receiving biologic therapies in the Western Cape, South Africa	Ms T du Toit Stellenbosch University
11h30 - 11h45	9 Clozapine haematological side effect monitoring in the Western Cape: A retrospective review of the Provincial Health Data Centre Database 2015-2017	Mr HC Geldenhuys Stellenbosch University
11h45 - 12h00	10 Evaluation of specialist out-patient clinic visits by chronic disease patients attending a tertiary hospital in the greater Tshwane metropolitan area	Mr MG Ncube University of Pretoria
12h00 - 12h15	11 Erythropoietin treatment in anaemic patients at the Nephrology Unit of the Steve Biko Academic Hospital - A retrospective, cross-sectional study	Mr E Kok University of Pretoria
12h15 - 12h30	12 Effect of pictorial information on dosing proficiency of 500 mg paracetamol-only tablets	Mr WH van Eeden University of Pretoria

12h30 - 13h30	Lunch and poster-viewing (sponsored by Anatech)	
Session 3: Young Pharmacologist Competition and delegate presentations (2 level 1 CEU points)		Chair: Dr W Cordier
13h30 - 13h45	13	The prevalence of eight single nucleotide variations in overweight and obese participants Mrs B Sansom University of Pretoria
13h45 - 14h00	14	The influence of decoy-databases, tryptinisation parameters and filtering in protein discovery by open-source bioinformatics analysis Mrs D Wilson University of Pretoria
14h00 - 14h15	15	The isomeric effects of camphor on <i>Anopheles</i> Mr TA Rantso University of the Witwatersrand
14h15 - 14h30	16	Morphological assessment of detergent decellularised dermal extracellular matrix scaffold for wound healing studies Ms MT Lebepe University of Pretoria
14h30 - 14h45	17	Copper-imidazo[1,2-a]pyridines stimulate the intrinsic apoptotic pathway and inhibit the protein expression of negative apoptotic regulators in leukaemic cells Ms Z Ismail University of the Witwatersrand
14h45 - 15h00	18	Effects of Z-venusol on cancer-related inflammatory cytokines in MCF-7, MDA-MB231 and BT-20 human breast cancer cell lines <i>in vitro</i> Mr SM Ndlovu University of KwaZulu-Natal
15h00 - 15h30	Tea and poster-viewing (sponsored by Analytical and Diagnostic Products)	
Session 4: Workshops		Chair: Ms H Parkar
15h30 - 16h30	Publication Workshop (2 level 1 CEU points) Ms AM Pordon Elsevier	
16h30 - 17h30	Young Pharmacologist Dissertation/Thesis Workshop: Roast and Toast Expert panel	
Post-conference functions		
18h00 - 18h40	Clinical Pharmacology (CMSA) Annual General Meeting	
18h00 - late	Young Pharmacologist-Organised Function (sponsored by Microsep)	
Sunday, 6 October		
07h00 - 08h00	Registration	
Session 5: Pharmacogenetics		Chair: Dr A Marais
08h00 - 08h45	Cell and gene therapy: New medicines on the horizon (1 ethics point) Prof M Pepper University of Pretoria	
08h45 - 09h30	Personalised medicine (0.5 level 1 CEU point) Dr Danny Meyersfeld DNAlysis	
09h30 - 10h00	High-throughput targeted gene technology of SNV genotyping and clinical application (0.5 level 1 CEU point) Ms Bianca Sansom GeneWay	
10h00 - 10h30	Tea and poster-viewing (sponsored by Separations)	
Session 6: Regulatory pharmacology		Chair: Prof E Osuch
10h30 - 11h15	Ethical and societal implications of neuroimaging in dementia (0.5 ethics point) Prof M Sathekge University of Pretoria	
11h15 - 11h40	Why prescription drugs can hurt? Using pharmacogenomics to reduce risk (0.5 level 1 CEU point) Ms D Langley Independent	
11h40 - 12h05	Trix patients use to get their fix (0.5 level 1 CEU point) Dr K Outhoff University of Pretoria	
12h05 - 12h30	Section 21 drugs (0.5 ethics point) Mrs M Leuschner University of Pretoria	

12h30 - 13h30		Lunch and poster-viewing (sponsored by GeneWAY)	
Session 7: Delegate presentations (2 level 1 CEU points)			Chair: Prof A Walubo
13h30 - 13h45	1	Big Pharma, Big Food and Consumer Protection - Magnifying the horizon of embedded pharmacology in dietary supplements	Dr G Gabriels University of the Witwatersrand
13h45 - 14h00	2	Evaluating the quality of life among human immunodeficiency virus/acquired immunodeficiency syndrome patients on antiretroviral therapy at a primary healthcare setting	Dr LN Katende-Kyenda Walter Sisulu University
14h00 - 14h15	3	Primary care clinical practice guidelines in South Africa: Qualitative study exploring perspectives of national guideline developers	Dr TJ Kredo Medical Research Council
14h15 - 14h30	4	Inappropriate prescribing of antibiotics in children with upper respiratory tract infections	Dr L Mathibe University of KwaZulu-Natal
14h30 - 14h45	5	The relationship between commonly used chemotherapy regimens and perceived cognitive function in patients with breast cancer at Dr George Mukhari Academic Hospital, South Africa	Mr N Keetile Sefako Makgatho University
14h45 - 15h00	6	Optimization of a platinum and enzyme power source for a hybrid nano drug delivery system	Dr G Naidoo Stellenbosch University
15h00 - 15h15	7	Towards the elimination of malaria: The computational drug design strategic search for the "silver bullet"	Dr SA Egjeyeh University of the Western Cape
15h15 - 15h30	8	Design and discovery of novel kinesin spindle protein (KSP) inhibitors as potential anticancer agents	Prof R Karpoomath University of KwaZulu-Natal
15h30 - 16h00	Tea and poster-viewing (sponsored by Biocom Africa)		
Session 8: Advancing safer use of biological medicines (1 level 1 CEU point)			Chair: Prof B Rosenkranz
16h00 - 16h30	An overview on the challenges in the use of biological medicines		Prof A Walubo University of the Free State
16h30 - 17h00	Prevention and management of common adverse reactions of biologics		Prof H Reuter Stellenbosch University
17h00 - 17h15	Framework for the use of biological medicines in South-Africa		Ms M Mocke-Richter University of the Free State
Post-conference functions (co-sponsored by Apex Scientific, Sartorius and United Scientific)			
17h30 - late	Harvest Table and Awards Function		
Monday, 7 October			
07h00 - 08h00	Registration		
Session 9: Symposium (2 level 1 CEU points)			Chair: Dr M Mothibe
08h00 - 08h15	Medical cannabis: Clinical evidence for its use		Dr R van Rensburg Stellenbosch University
08h15 - 08h30	Towards regulation of cannabis for medicinal use		Dr EN Madela-Mntla University of Pretoria
08h30 - 08h45	Medical cannabis – Research and development innovations and potential for South Africa – Beyond the CBD and THC hype		Prof MG Matsabisa University of the Free State
08h45 - 10h00	Open to the floor		Audience and speakers

10h00 - 10h30		Tea and poster-viewing	
Session 10: Industry Session and Annual General Meeting (2 level 1 CEU points)			Chair: Prof V Steenkamp
10h30 - 10h48	Anatech's innovative solutions for pharmacology applications		Anatech
10h48 - 11h06	AMNIS imaging cytometry pushing the limits of cellular visualization		Biocom Africa
11h06 - 11h24	GENEWAY™ - Transforming your future health		GeneWay
11h24 - 11h42	MassARRAY Solutions for Pharmacogenetics		Inqaba
11h42 - 12h00	Waters: New product solutions that will benefit your pharmaceutical environment		Microsep
12h00 - 12h45	SASBCP Annual General Meeting		SASBCP ExCo and members
12h45 - 13h30		Lunch and poster-viewing	
Session 11: Pharmacology education and conference closing (2 level 1 CEU points)			Chair: Prof E Decloedt
13h30 - 13h45	1	Smartteaching pharmacology	Prof JPH Van Wyk Sefako Makgatho University
13h45 - 14h00	2	The Grand Cannabis Debate: Stimulating graduate attribute development via asynchronous discussions	Dr W Cordier University of Pretoria
14h00 - 15h00	Education Round-table Discussion: Challenges faced when teaching clinical competencies in pharmacology		Interest group (all welcome)
15h00 - 15h15	Closing of conference		Prof V Steenkamp University of Pretoria

We graciously thank all our sponsors for contributing to the conference

