

SCIENTIFIC PROGRAMME

03 December 2023

Time	Activity	
13h00 - 17h00	Registration	All delegates
18h00 – 22h00	Welcome Remarks & Reception	

Day 1

4 December 2023

<i>Opening Session: Prof CM Nkambule</i>		
Time	Lecture	Speaker
8h30 - 8h50	Welcome and conference opening by the Vice-Chancellor & Principal of the University of Limpopo	Prof NM Mokgalong
8h50 - 9h40	PL-1: Playing Lego with aldehydes, acetophenones, acids and amines to design and synthesise bioactive conjugate quinolines, quinoxalines and benzimidazoles	Prof N Koorbanally
9h40 - 10h10	KN-1: Heterocyclic inhibitors of Plasmodium falciparum	Prof AL Rousseau
10h10 - 10h30	Coffee & Tea	
<i>Teuns Van Ree (UNIVEN) Session: Dr VJ Tembu</i>		
Time	Lecture	Speaker
10h30 - 10h50	Repurposing of the organic compounds as potential corrosion inhibitors	Dr T Leboho
10h50 - 11h10	Flow chemistry and reaction engineering tools for the competitive manufacture of pharmaceuticals in South Africa	Prof D Riley
11h10 - 11h30	Energy Harvesting Potential of Azobenzene and Perylene Tetracarboxylic Bisimide Derivatives: Synthesis, Phase Transition, and Computational Study	Dr N Molefe
11h30 - 11h50	Synthesis of peptide nucleic acids (PNAs) using a safety-catch protecting group strategy - Compatible with Boc-Chemistry	Dr E Macedo Brasil
11h50 - 12h10	High Performance GC- & GC-TOFMS metabolomics-Based approach for discovery of potential diabetes II biomarkers in human plasma	Dr C Kannigadu
12h10 - 12h30	Quinolone analogues of benzothiazinone: Synthesis, antitubercular structure-activity relationship and ADME profiling	Ms PS Dube
12h30 - 12h50	Biocatalytic and enantioselective synthesis of chiral oxygenated heterocycles	Ms MV Ndlovu

13h00 – 14h00 Lunch		
<i>Robert Vleggaar (UP) Session: Prof S Mnyakeni-Moleele</i>		
Time	Lecture	Speaker
14h00 - 15h00	PL-2: Organic Chemistry in Materials Science	Prof C Scott
15h00 - 15h30	KN-2: Molecular Hybridization Approach in the Design of Biologically Active Compounds	Prof S Khanye
15h30 – 15h45 Coffee & Tea		
<i>Joseph Michael (WITS) Session: Dr R Mohlala</i>		
15h45 - 16h05	New pentacyclic triterpenes from <i>Strychnos henningsii</i> and their Antidiabetic Activity	Dr N Latolla
16h05 - 16h25	LC-MS profiling of an extract of <i>Euphorbia grandicornis</i> with anti-HIV activity	Dr S Hlengwa
16h30 - 17h30	Flash Poster Presentations (6 minutes each)	
18h00 – 22h00 Bush Braai Dinner		

Day 2

5 December 2023

<i>Cedric W Holzapfel (UJ) Session: Dr M Selepe</i>		
Time	Lecture	Speaker
8h30 - 9h30	PL-3: Late-Stage Functionalizations	Prof Tobias Ritter
9h30 - 10h00	KN-3: Sustainability and the pharmaceutical industry: The rise of the machines	Dr J-L Panayides
10h00 – 10h30 Coffee & Tea		
<i>Siegfried E Drewes (UKZN) Session: Dr N Khanyile</i>		
Time	Lecture	Speaker
10h30 - 10h50	Finding the ajoene sweet-spot: structure-activity relations that govern bioavailability and cancer cell cytotoxicity	Dr C Kaschula
10h50 - 11h10	Structural characterization, and quantum chemical study of the 7-acetyl-5-nitrobenzofurans as anticancer agents with antioxidant properties	Dr MM Maluleka
11h10 - 11h30	Design, synthesis, structure-activity relationship/structure-property relationship analyses toward the identification of preclinical anti-infective agents	Prof R Beteck
11h30 - 11h50	Teaching systems thinking in and for Organic Chemistry	Prof L Pilcher
12h10 - 12h30	Quinoline-1,2,3-triazole molecular hybrids: Synthesis, antimicrobial evaluation and molecular docking studies	Mr P Seboletswe
12h30 - 12h50	Forgotten Gems: Exploring triazenes' untapped potential as antimalarials and antimicrobials	Dr FJ Smit
12h50 – 14h00 Lunch		
<i>Dawie Roux (UFS) Session: Prof W Nxumalo</i>		
Time	Lecture	Speaker
14h00 - 15h00	PL-4: Novel bioactive products from African Croton genus	Prof M Langat
15h00 - 15h30	KN-4: Modern approaches in the design of synthetically aware new chemical entities in drug discovery	Dr N Gumede
15h30 – 15h45 Coffee & Tea		
<i>Douglas Rivett (RU) Session: Mr N Makhubele</i>		
15h45 - 16h05	Adventures in the synthesis of imidazo[1,2-a]pyridin-3-amines as possible HIV-1 NNRTIs	Prof M Bode
17h30 – 21h30 Poster Presentations with Wine & Cheese		

Day 3

6 December 2023

<i>Hebert EM Magojo (UFH) Session: Prof RM Mampa</i>		
Time	Lecture	Speaker
8h30 - 9h30	PL-5: Plant Extracts as Sustainable Alternatives for Tyre Waste Management	Dr BG Hlangothi
9h30 - 10h00	KN-5: Native Mass Spectrometry as a Tool for Rapid Elucidation and Modulation of Difficult to Access Transient Protein-Protein Interactions	Prof C Veale
10h00 – 10h30 Coffee & Tea		
<i>Piet Steyn (SU) Session: Dr MM Maluleka</i>		
Time	Lecture	Speaker
10h30 - 10h50	A fractionated marine extract library to enrich marine biodiscovery efforts in South Africa	Prof DR Beukes
10h50 - 11h10	Phytochemical screening of commercial pine bark extracts for adherence to US pharmacopeia requirements	Mr L Samuwi
11h10 - 11h30	Stereoselective synthesis of functionalized pyrrolidines as potential anti-tubercular compounds	Mr ND Thobejane
11h30 - 11h50	Fmoc Removal in Solid-Phase Peptide Synthesis using Morpholine: Good Performance and Suppression of Side-Reactions	Ms SN Mthembu
Excursions, free afternoon & evening		

Day 4

7 December 2023

<i>Ivan R Green (UWC) Session: DR TC Leboho</i>		
Time	Lecture	Speaker
8h30 - 9h30	PL-6: Synthesizing complex bioactive structures through convergent coupling reactions	Prof W van Otterlo
9h30 - 10h00	KN-6: Exploring alternative amidation reactions and new phosphine ligands for palladium cross-coupling applications	Dr P Moshapo
10h00 – 10h30	Coffee & Tea	
<i>James R Bull (UCT) Session: Dr ST Mthembu</i>		
Time	Lecture	Speaker
10h30 -10h50	In silico discovery of new analogues of 1-Heteroaryl-2-Alkoxyphenyl as potential inhibitors of SARS-CoV-2	Dr OE Oyenyin
10h50 - 11h10	The design, synthesis and anti-tubercular properties of the sulfonated tri-substituted benzofuran derivatives.	Mr K Mojapelo,
11h10 - 11h30	I love chemistry! What now?	Dr J van Tonder
11h30 - 11h50	How NMR can help you to better understand the aggregation behaviour of amino acid surfactants	Mr E Wiese
11h50 - 12h10	Halogenated ortho-Hydroxybenzenecarbonyl derivatives as precursors to biologically relevant organic Motifs	Prof MJ Mphahlele
12h10 - 12h30	Palladium-catalyzed regiodivergent C-H olefination of imidazo[1,2a] pyridine carboxamide and unactivated Alkenes	Prof R Karpoomath
12h30 - 12h50	Organically shaking things up - Foray into mechanochemistry	Prof RWM Krause
13h00 – 14h00	Lunch	
<i>Frank Warren Lecture : Prof C Veale</i>		
14h00 - 15h00	PL-7: Exploring the natural product chemistry of South African medicinal plants	Prof WT Mabusela
15h00 – 15h30	Coffee & Tea	
18h00 – 22h00	Conference Gala Dinner & Awards	

Key: **PL** (Plenary Lecture), **KN** (Keynote Lecture)