



PRELIMINARY PROGRAM 2024 ANNUAL MSA SYMPOSIUM AND AGM

Date and Venue: September 17th to 18th. Thamsanqa Kambule Auditorium, GJ Gerwel Building, UNISA Science Campus, Florida, Johannesburg

17-Sep	Speaker/Presenter	Title	Institution	Theme
09:00-09:10	Fidele Tugizimana - MSA	Opening/Welcoming Address	University of Johannesburg (UJ)/MSA	Opening/Welcoming Address
09:10-09:30	Talk 1	The effect phenological growth stages on the antioxidant, cytotoxicity and chemical profiling of <i>Buddleja saligna</i>	Tshwane University of Technology (TUT)	Plants, Food, Environment and Microbial Ecosystems
09:30-09:50	Talk 2	The Metabolic Consequences of Two Weeks Chronic Cannabidiol Treatment in Kramnik Mice	North-West University (NWU)	Plants, Food, Environment and Microbial Ecosystems
09:50-10:35	Nokwanda Makunga (Key Speaker 1)	Multi-omics approaches for studying selected South African medicinal plants – prospects and challenges	Stellenbosch University (SU)	Plants, Food, Environment and Microbial Ecosystems
10:35-10:55	Tea/Coffee Break (Exhibitions & Posters)			
10:55-11:05	Molati Nonyane and John Becker- ACGT			
11:05-11:35	National Metabolomics Platform (NMP)			
11:35-11:55	Talk 3	Integrated computational systems biology for bioprospection of active pharmaceutical ingredients	Durban University of Technology (DUT)	Computational Metabolomics, Statistics, Bioinformatics and Omics integration
11:55-12:15	Talk 4	Comparative metabolomics and ionomics of three <i>Pelargonium</i> species	University of Venda (UNIVEN)	Computational Metabolomics, Statistics, Bioinformatics and Omics integration

12:15-12:35	Talk 5	Comprehensive analysis and data comparison of Skin Gas and its changes using High-Sensitivity GCxGC-TOFMS	Leco, Africa	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
12:35-12:55	Talk 6	Metabolomic Profiling of Hormonal Contraceptive Use in Young Females Using a Commercially Available LC-MS/MS Kit	North-West University (NWU)	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
12:55-13:45	Lunch (Exhibitions & Posters)			
13:45-14:15	Poster session 1			
14:15-15:00	Mohammed Balogun (Key Speaker 2)	Polymer therapeutics for infectious diseases- breaking new frontiers in advanced therapeutics.	Council for Scientific and Industrial Research (CSIR)	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
15:00-15:20	Talk 7	Metabolomics-guided tentative identification of antimycobacterial compounds in Crinum asiaticum	University of Pretoria (UP)	Computational Metabolomics, Statistics, Bioinformatics and Omics integration
15:20-15:35	Tea/Coffee Break (Exhibitions & Posters)			
15:35-15:55	Microsep			
15:55-16:15	Talk 8	1,25-Dihydroxyvitamin D3 primes monocytes for macrophage function by inducing early changes in metabolism and gene expression	University of the Witwatersrand (WITS)	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
16:15-16:35	Talk 9	Evaluation of Phytochemicals in Kigelia africana Fruit Extracts and Chemical Profiling Analysis Using UHPLC-qTOF-MS2 Spectrometry	National Institute for Occupational Health (NIOH)	Plants, Food, Environment and Microbial Ecosystems
Break				
16:45-17:45	CAREER SESSION			

18-Sep	Speaker /Presenter	Title	Institution	Theme
09:00-09:45	Nonhlangabezo Mabuba (Key Speaker 3)	Water quality monitoring using electrochemical biosensors	University of Johannesburg	Industry Spotlight
09:45-10:05	Talk 10	Elucidating rhizosphere microbial interactions: Utilizing Untargeted metabolomics to investigate perturbations triggered by cross-feeding mechanisms between two PGPR strains	University of Johannesburg (UJ)	Computational Metabolomics, Statistics, Bioinformatics and Omics integration
10:05-10:25	Talk 11	A proteolipidomic signature for hair curvature	University of Cape Town (UCT)	Computational Metabolomics, Statistics, Bioinformatics and Omics integration
10:25-10:35	DIPLOMICS			
10:35-11:05	Tea/Coffee Break (Exhibitions & Posters)			
11:05-11:25	Shimadzu			
11:25-11:45	Talk 12	Occurrence of priority phthalates esters and human health risks of sewage sludge application to soil for agriculture in Gauteng,	University of South Africa (UNISA)	Plants, Food, Environment and Microbial Ecosystems
11:45-12:05	Talk 13	Phytochemical screening, antioxidant and antibacterial activity of Ricinus Cummunis extracts	Medical University of Southern Africa (MEDUNSA)	Plants, Food, Environment and Microbial Ecosystems
12:05-12:50	Olga de Smidt (Key Speaker 4)	Unravelling the microbiome in abattoir effluent	Central University of Technology (CUT)	Plants, Food, Environment and Microbial Ecosystems
12:50-13:00	Benny ZA			
13:00 - 13:45	Lunch (Exhibitions & Posters)			
13:45-14:15	Poster session 2			

14:15-14:35	Talk 14	Characterization of cassava genotypes response to early drought stress using untargeted metabolomics approaches	Nelson Mandela University (NMU)	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
14:35-14:55	Talk 15	Using Metabolomics for Improved Disease Characterization, Diagnostics and Treatment Strategies/New Drug Development Against Tuberculosis	North-West University (NWU)	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
14:55-15:15	Talk 16	Effect of Biological Oxidants on the Functioning of MEP Pathway's [Fe-S] Cluster-dependent Enzymes.	Stellenbosch University (SU)	Metabolomics in Human Health and Disease (Drug/Biomarker Discovery and Diagnostics)
15:15-15:30	Tea/Coffee Break (Exhibitions & Posters)			
15:30-16:15	Sooraj Baijnath (Key Speaker 5)	Advances in spatial mass spectrometry and its applications	University of the Witwatersrand (Wits)	Technology Advancements and Quality Assurance
16:15-16:25	Separations			
16:25-16:45	Awards and Closing			
Break				
17:00-18:00	AGM			



2024 ANNUAL MSA SYMPOSIUM AND AGM EMN CAREER NIGHT



Metabolomics South Africa (MSA) is excited to announce our first career event!
Panel Discussions with Experts from different fields on the following topics:

Click to register for the career night



STEM

ACADEMIA
VS
INDUSTRY

SCHOLARSHIPS
AND GRANT
APPLICATIONS

HOW TO
PUBLISH

Date: September 17th Time: 16:45-17:45

Thamsanqa Kambule Auditorium, GJ Gerwel Building, UNISA Science Campus, Florida,
Johannesburg



The Venue and the Parking details

Venue: Thamsanqa Kambule Auditorium, **GJ Gerwel building**, UNISA Science campus, Florida, Johannesburg. Highlighted on the map below

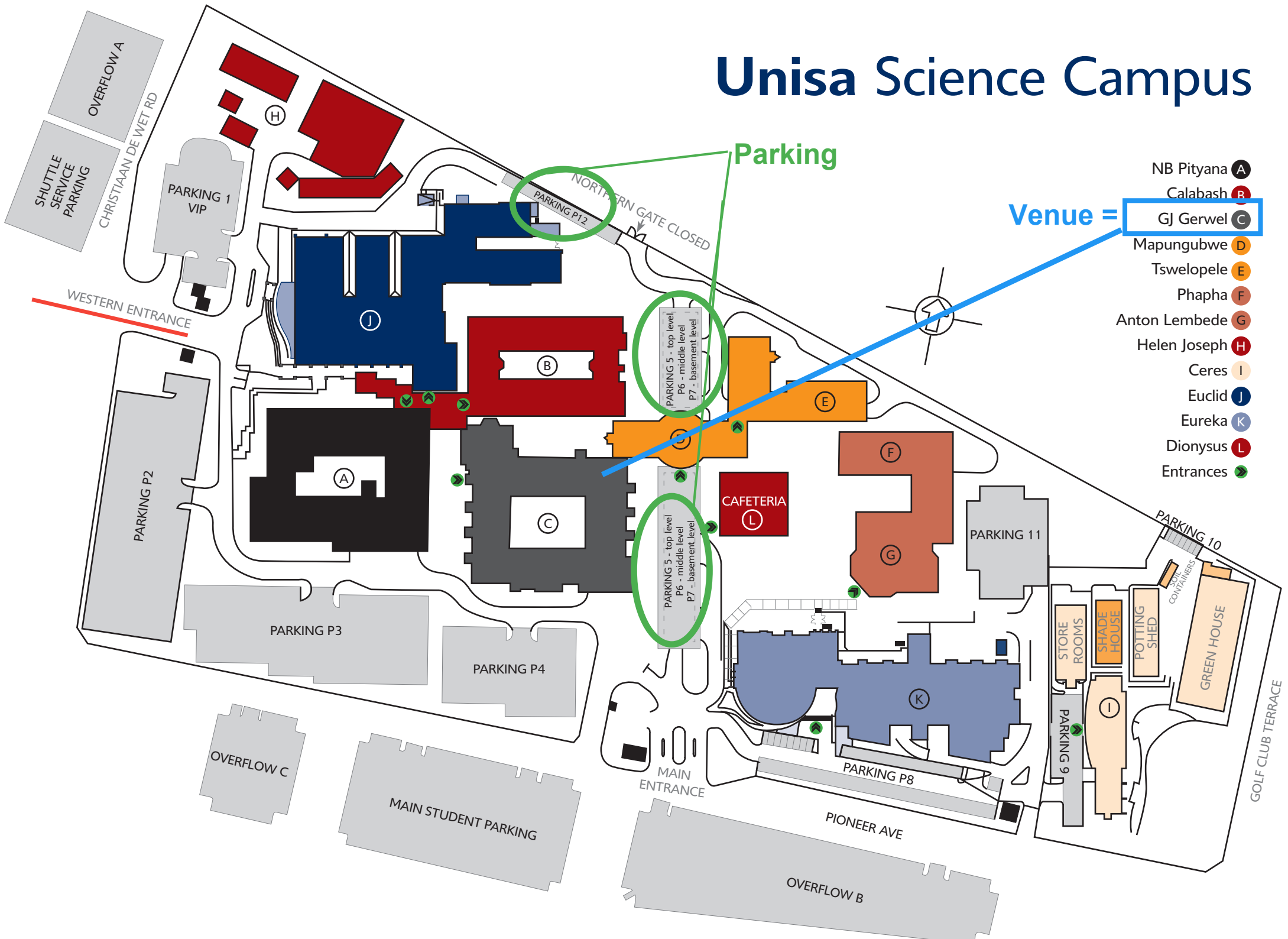
Parking details (green circle on the map below)

- **P5** - behind the cafeteria
- **P5** - Behind Security Station
- **P12** Opposite Security Station and by the Deslin gate.

The best entrance to use is “western entrance” on the Christian De Wet Road (red underline on the map below). The main entrance can be busy, but it can also be used.

Please see the highlights on the map of the Campus below

Unisa Science Campus



- NB Pityana **A**
- Calabash **B**
- Venue =** GJ Gerwel **C**
- Mapungubwe **D**
- Tswelopele **E**
- Phapha **F**
- Anton Lembede **G**
- Helen Joseph **H**
- Ceres **I**
- Euclid **J**
- Eureka **K**
- Dionysus **L**
- Entrances **➔**

Parking

Venue =

PARKING 5 - top level
P6 - middle level
P7 - basement level

PARKING 5 - top level
P6 - middle level
P7 - basement level

CAFETERIA **L**

STORE ROOMS
SHADE HOUSE
POTTING SHED
SOIL CONTAINERS
GREEN HOUSE

OVERFLOW A
SHUTTLE SERVICE PARKING
CHRISTIAAN DE WET RD

PARKING 1 VIP

NORTHERN GATE CLOSED
PARKING P12

WESTERN ENTRANCE

PARKING P2

PARKING P3

PARKING P4

OVERFLOW C

MAIN STUDENT PARKING

MAIN ENTRANCE

PARKING P8

OVERFLOW B
PIONEER AVE

PARKING 11

PARKING 9

PARKING 10

GOLF CLUB TERRACE

Accommodation / Hotels near UNISA Florida Campus

1. **ANEW Hotel Roodepoort Johannesburg** (10 min away / to the venue UNISA)
 - Corner Of 14th Avenue &, Hendrik Potgieter Rd, Weltevredenpark, Johannesburg, 1739
 - <https://anewhotels.com/hotels/roodepoort/>
2. **The Michelangelo Hotel**
 - Location: Nelson Mandela Square, Sandton
 - Features: Luxurious rooms, spa, fine dining, and close proximity to shopping areas.
3. **Four Seasons Hotel The Westcliff Johannesburg**
 - Location: 67 Jan Smuts Avenue, Westcliff
 - Features: Stunning views, elegant accommodations, multiple dining options, and a spa.
4. **Saxon Hotel, Villas & Spa**
 - Location: 36 Saxon Road, Sandhurst
 - Features: Exclusive luxury, private villas, award-winning spa, and fine dining.
5. **The Maslow Hotel, Sandton**
 - Location: 151, 5th Street, Sandton
 - Features: Modern amenities, business facilities, and a rooftop pool.
6. **Radisson Blu Hotel, Sandton**
 - Location: 108 Rivonia Road, Sandton
 - Features: Contemporary design, wellness facilities, and close to major attractions.

These hotels offer a range of luxurious amenities and are within a reasonable distance from the UNISA Science Campus.

Get smarter answer from GPT-4o

Key Landmarks:

1. **Florida Park:** A nearby recreational area that can serve as a reference point.
2. **Florida Mall:** A shopping centre located close to the campus, useful for amenities and services.
3. **Westgate Shopping Centre:** Another shopping destination nearby, providing additional reference.
4. **Roodepoort Country Club:** A golf course that can help orient you in the area.
5. **University of Johannesburg (UJ) - Florida Campus:** Close to UNISA, this can be a useful landmark.

Major Roads:

1. **Albertina Sisulu Road (R553):** A primary route that connects to the campus and is easily accessible.
2. **Ontdekkers Road (R28):** A significant road that leads towards Florida and can be used to reach the campus.
3. **Crownwood Road:** This road runs through the area and provides access to the campus.
4. **Hendrik Potgieter Road:** A major thoroughfare that can be used to navigate towards Florida.

Directions:

- From **Johannesburg CBD**, take the N1 highway towards Roodepoort, then exit onto the R28 (Ontdekkers Road) towards Florida.
- Follow the signs for UNISA Science Campus, which is located on **Crownwood Road**.

These landmarks and roads should help you find your way to the UNISA Science Campus in Florida.