



forward together · saam vorentoe · masiye phambili

Programme

The First Stellenbosch University African Microbiome Workshop and Symposium

28 – 30 November 2019

CONTENT

1. FORMAT.....	2
2. ORGANIZING COMMITTEE.....	2
3. SYMPOSIUM VENUE.....	2
4. REGISTRATION AND ABSTRACT SUBMISSIONS	3
5. ACCOMMODATION.....	3
6. CONTACT DETAILS.....	3
7. PROGRAMME.....	4
8. LIST OF ACCOMMODATION OPTIONS	9

I. FORMAT

The programme will consist of a workshop and symposium; with the 1st day training and 2nd day working with own datasets. The symposium (Day 2 and Day 3) will present the latest scientific advances in the field of the Microbiome and the Metabolome presented by national and international leaders in the field.

2. ORGANIZING COMMITTEE

Prof Wim de Villiers, Rector & Vice-Chancellor, Stellenbosch University

Prof Hugh Patterson, Ph.D., Professor of Bioinformatics, Center for Bioinformatics and Computational Biology, Faculty of Science, Stellenbosch University

Prof Florian Bauer, Institute for Wine Biotechnology, Faculty of AgriSciences, Stellenbosch University

Prof Stephen O'Keefe: Director, African Microbiome Institute, Faculty of Medicine and Health Sciences, Stellenbosch University and Div Gastroenterology, University of Pittsburgh

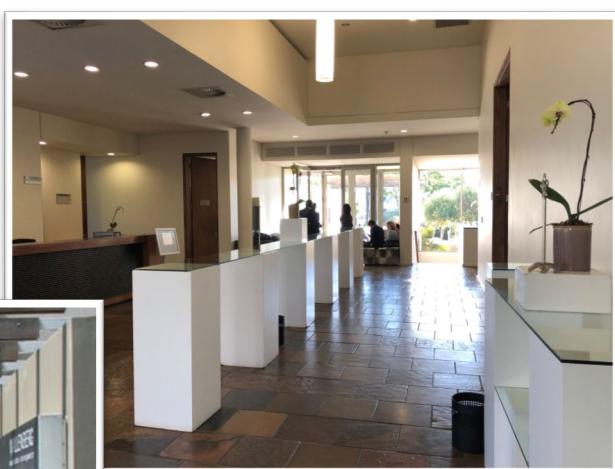
Prof Andrew Whitelaw, Head of Division: Medical Microbiology, Executive Head: Department of Pathology, Faculty of Medicine and Health Sciences

Prof Grant Theron, Division of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, University of Stellenbosch

3. SYMPOSIUM VENUE

The [Wallenberg Research and Conference Centre, STIAS](#), Stellenbosch University

Click [here](#) for directions to the venue



4. REGISTRATION AND ABSTRACT SUBMISSIONS

- Special rates will be available for students and for registration before November 1.
- Abstract submission deadline is November 1.

Registration Fees (ZAR)	Early (before 1 Nov)	Late
Workshop (<i>all categories</i>)	R 1 200	R 1 200
Symposium		
Academics (<i>anyone with a formal affiliation with a university</i>)	R 1 500	R 2 000
Industry & Public	R 2 000	R 2 500
Students	R 400	R 500
Exhibits (<i>includes one representative</i>)	R 4 000	R 6 000

5. ACCOMMODATION

A wide variety of accommodation is available ranging from 5* hotels to bed and breakfasts, wine farms, and university lodgings. Please click [here](#) for a full list of accommodation options.

6. CONTACT DETAILS

Queries about the **WORKSHOP** can be directed to:

Olivia van Wyk

Faculty of Science, Stellenbosch University

oliviavw@sun.ac.za

Tel: +27 21 808 9514

Website: <http://www.sun.ac.za/english/faculty/science/sci-bioinformatics/events>

Queries about the **SYMPOSIUM** can be directed to:

Joyal Arendse

African Microbiome Institute (AMI)

Faculty of Medicine and Health Sciences, Stellenbosch University

jvarendse@sun.ac.za OR sjokeefe@pitt.edu

Tel: +27 21 938 9627

Website: <http://www.sun.ac.za/africanmicrobiomeinstitute>

7. PROGRAMME

Day 1 & 2	Workshop: Microbiome Analytical Techniques
Dates	Thursday, November 28 and Friday, November 29 (morning)
Venue	Stellenbosch University, AI Perold Building 2005, Stellenbosch
Intended audience	<p>Researchers who want to start analysing their data with Qiime 2 or simply want to know more about the process. The course will run through a basic Qiime 2 tutorial which should enable new users to complete a basic analysis of their own data and how to start with more advanced analyses.</p> <p>Registration and more information:</p> <p>https://forms.gle/xRtgCVPfUXoVAvVKA</p> <p>http://www.sun.ac.za/english/faculty/science/sci-bioinformatics/events</p> <p>http://www.sun.ac.za/africanmicrobiomeinstitute</p>

PROGRAMME: DAY 1 (28 November 2019)

Workshop: Microbiome Analytical Techniques

08:30	Registration
09:00	Introduction: Riaan N de Witt, Centre for Bioinformatics and Computational Biology
09:30	Break
10:30	Connect to HPC
11:30	Core concepts
12:00	Lunch break
13:00	Standard workflow tutorial: Importing data
13:30	Sample processing
14:00	Alpha & Beta diversity
15:00	Break
13:30	Taxonomy
16:30	Local install

PROGRAMME: DAY 2 (29 November 2019)

Workshop: Microbiome Analytical Techniques

08:30	Course review
09:00	Additional analyses: Differential abundance
10:00	Break
10:30	Review of commands; download data
11:30	Questions and discussion
12:00	End of workshop

SYMPOSIUM

Day 2 & 3	Symposium: Interactions between the Environmental and Human Microbiota in the Preservation of Health and Genesis of Disease
Dates	Friday, November 29 and Saturday, November 30
Venue	The Wallenberg Research and Conference Centre at STIAS, Stellenbosch
Registration	https://forms.gle/uEocWYSkxfXQGTIZ7
Further information	http://www.sun.ac.za/english/faculty/healthsciences/african-microbiome-institute/Pages/default.aspx

PROGRAMME: DAY 2 (29 November 2019)

TIME	ITEM	SPEAKER / FACILITATOR
10:00 – 12:00	Registration	
13:00 – 13:15 (15 min)	Opening Address and Introduction	Prof. Wim de Villiers Rector & Vice-Chancellor, Stellenbosch University
SESSION I: Recent advances in study design and analytical measurements of the microbiome and metabolome		
<u>Chair(s): Prof Nico Gey van Pittius (Vice Dean: Research and Professor in Molecular Biology)</u>		
13:20 – 14:00 (40 min)	SESSION I.1 Update on the Measurement of the Microbiome, Metagenome, and Transcriptome Lecture: 30 min Discussion: 10 min	Prof. Barbara Methé PhD, Professor of Medicine, Co-Director, Center for Medicine and the Microbiome
14:00 – 14:40 (40 min)	SESSION I.2 Enterotypes, Signatures, and Specific Microbes in Health and Disease Lecture: 30 min Discussion: 10 min	Prof. Erwin Zoetendal PhD, Universitair docent Wageningen University, Agrotechnology & Food Sciences
14:40 – 15:20 (40 min)	SESSION I.3 A systems biological approach to the interpretation of multi-omics data Lecture: 30 min Discussion: 10 min	Dr. Joram M. Posma PhD, MSc, B AS, MRSC. Division of Systems and Digestive Medicine (Computational and Systems Medicine), Imperial College London, United Kingdom

TIME	ITEM	SPEAKER / FACILITATOR
15:20 – 15:40 (20 min)	Roundtable speaker and peer group discussion	Session Chair
15:40 – 16:00	Break (20 min)	
16:00 – 16:40 (40 min)	SESSION 1.4 Metabolic phenotyping in host-microbial interactions Lecture: 30 min Discussion: 10 min	Dr. Jia Li <i>Faculty of Medicine, Department of Metabolism, Digestion and Reproduction, Imperial College, London</i>
16:40 – 17:10 (30 min)	KEYNOTE ADDRESS The development of phenome centres - is an international phenome centre desirable and feasible?	Prof. Jeremy Nicholson <i>Australian National Phenome Center, Perth, Australia</i>
18:00 – 20:00	Welcoming reception and poster presentations	VENUE: The Wallenberg Research and Conference Centre at STIAS

PROGRAMME: DAY 3

TIME	ITEM	SPEAKER / FACILITATOR
SESSION 2: Advances in the Understanding of the impact of the environmental microbiome on the human microbiome		
	<u>Chair(s):</u> Prof. Alf Botha and Prof. Gideon Wolfaardt (<i>Microbiology, Faculty: Science, SU</i>)	
From 07:30	Arrival coffee & tea	
08:00 – 08:20 (20 min)	SESSION 2.1 Controlling the wine microbiome: Bringing change to the global wine industry	Prof Florian Bauer <i>Institute for Wine Biotechnology, Stellenbosch University</i>
08:20 – 08:40 (20 min)	SESSION 2.2 Temporal shifts in the vineyard soil and grape must fungal populations	Dr Evodia Setati <i>PhD, Senior Researcher</i>
08:40 – 09:00 (20 min)	SESSION 2.3 The microbiome in South African homes: Biodiversity boost or silent killer?	Prof Karin Jacobs <i>PhD, Department of Microbiology, Stellenbosch University</i>
09:00 – 09:20 (20 min)	SESSION 2.4 Microbiome analysis of treated water	Prof Wesaal Khan <i>PhD, Department of Microbiology, Stellenbosch University</i>
09:20 – 09:50 (30 min)	Roundtable speaker and peer group discussion	Session Chair

TIME	ITEM	SPEAKER / FACILITATOR
SESSION 3: The Human Microbiome		
Chair(s): Prof. Rafique Moosa (<i>Department of Internal Medicine, SU</i>); and Prof. Christo van Rensburg (<i>Division of Gastroenterology, SU</i>)		
09:50 – 10:10 (20 min)	SESSION 3.1 Diet and the Microbiome in Health and Disease	Prof. Stephen O'Keefe <i>Director, African Microbiome Institute, Stellenbosch University</i>
10:10 – 10:40 (30 min)	SESSION 3.2 The Role of Dysbiosis in Obesity and Inflammatory Bowel Disease	Prof. Dr. Dirk Haller <i>Chair of Nutrition and Immunology, Director ZIEL, Institute for Food & Health, Technical University of Munich</i>
10:40 – 11:00	Break (20 min)	
11:00 – 11:20 (20 min)	SESSION 3.3 The Emerging Crisis in Antimicrobial Resistance and What Resistome Analysis can tell us	Prof. Andrew Whitelaw <i>Head of Division: Medical Microbiology, Executive Head: Department of Pathology, Faculty of Medicine and Health Sciences, Stellenbosch University</i>
11:20 – 11:40 (20 min)	Roundtable speaker and peer group discussion	Session Chair
SESSION 4: Translational Research		
Chair(s): Prof. Steve Innes (<i>Department of Paediatrics and Child Health, SU</i>) and Prof. Renée Blaauw (<i>Division of Human Nutrition, SU</i>)		
11:40 – 12:10 (30 min)	SESSION 4.1 The Role of the Microbiome in Inflammation and Carcinogenesis	Prof. Christian Jobin <i>PhD: Gatorade Trust Professor of Medicine, Program Co-leader Cancer Therapeutics and Host Response, University of Florida</i>
12:10 – 12:40 (30 min)	SESSION 4.2 The Impact of Intermicrobial Interactions on the Host Mucosa	Prof. H Rex Gaskins <i>PhD, Prof Mucosal and Immunological Biology, Nutritional Sciences, University of Illinois-Urbana</i>
12:40 – 14:00	Lunch break and poster presentations	
14:00 – 14:30 (30 min)	SESSION 4.3 The Influence of the Microbiota on Drug Metabolism and anti-Viral Therapy	Prof. Nichole R. Klatt <i>PhD, Assistant Professor, Department of Pharmaceutics, Program in Molecular and Cellular Biology, Program in Pathobiology, University of Washington</i>
14:30 – 14:50 (20 min)	SESSION 4.4 Probiotics and the gut-brain axis	Prof. Leon Dicks <i>Distinguished Professor in Microbiology, Department of Microbiology, Stellenbosch University</i>

TIME	ITEM	SPEAKER / FACILITATOR
14:50 – 15:10 (20 min)	Roundtable speaker and peer group discussion	Session Chair
SESSION 5: Young Investigators		
<u>Chair(s): to be confirmed</u>		
15:10 – 15:30 (20 min)	SESSION 5.1 Metabolomics and the Inflammasome	James Kinross <i>FRCS PhD, Consultant Surgeon and Clinical Senior Lecturer in Colorectal Surgery, Imperial College London</i>
15:30 – 15:50	Break (20 min)	
15:50 – 16:10 (20 min)	SESSION 5.2 Investigating urinary and faecal metabolic differences among native Africans, African Americans and Alaskans using mass spectrometry	Grace Barker <i>Imperial College, London</i>
16:10 – 16:30 (20 min)	SESSION 5.3 Germ-free Mouse Models to Determine Cause or Effect in Microbiome Association Studies	Dr. Soren Ocvirk <i>PhD, Universities of Pittsburgh, USA, and Berlin, Germany</i>
16:30 – 16:50 (20 min)	SESSION 5.4 Microbiota and response to TB therapy	Prof. Grant Theron <i>Division of Molecular Biology and Human Genetics, Faculty of Medicine and Health Sciences, University of Stellenbosch</i>
16:50 – 17:10 (20 min)	SESSION 5.5 The influence of migration from a rural to an urban environment on the microbiome and cancer risk in Zimbabweans	Dr. Leo Katsidzira <i>Gastroenterologist, University of Zimbabwe</i>
17:10 – 17:30 (20 min)	Roundtable speaker and peer group discussion	Session Chair
17:30 – 18:10 (40 min)	Prizes for posters Summary and Conclusions: The Way Forward	Prof. Stephen O'Keefe <i>Director, African Microbiome Institute, Stellenbosch University</i> Panel: all speakers and peer groups (consensus statement)
18:30 – 20:30	Reception and networking @ The Old Nectar Historic Homestead Estate and Gardens, Jonkershoek Valley	<i>The venue is 10min drive from STIAS</i>

8. LIST OF ACCOMMODATION OPTIONS

NAME	ADDRESS	TEL	EMAIL	WEBSITE
10 Alexander B&B	10 Alexander Street	+27 (0)21 887 4414	stay@10alexander.co.za	www.10alexander.co.za
22 Die Laan Self catering	22 Die Laan	+27 (0)21 886 8753	info@22dielaan.co.za	www.22dielaan.co.za
Avenues	32 The Avenue	+27 (0)21 887 1843	info@avenuesguestlodge.com	www.theavenues.co.za
Bonne Esperance Guest House	17 Van Riebeeck Street	+27 (0)21 887 0225/6	stay@bonneesperance.com	www.bonneesperance.com
Caledon Villa	7 Neethling Street	+27 (0)21 883 8912	info@caledonvilla.co.za	www.caledonvilla.co.za
Crofters(Self-catering units)	15 Thibault Street	+27 (0)21 883 8912	info@crofters.co.za	www.crofters.co.za
De Haas Luxury Living	2 Die Laan	+27 (0)74 918 5658	info@dehaasliving.co.za	www.dehaasliving.co.za
De Oude Meul	10A Mill Street	+27 (0)21 887 7085	info@deoudemeul.co.za	www.deoudemeul.com
Fynbos	14 Neethling Street	+27 (0)21 883 8670	info@fynbosguesthouse.co.za	www.fynbosguesthouse.co.za
Jonkershuis Guest House	50 Jonkershoek Drive	+27 (0)21 886 6000	info@jonkershuis.co.za	
Laanhof Self catering	28 Die Laan	+27 (0)21 66 22 14452	laanhof@gmail.com	www.laanhof.co.za
Labri Manor	71 Victoria Street	+27 (0)21 886 5652	email from website	www.stellenbosch.travel/stay/labri-manor
Lanzerac Hotel & Spa	1 Lanzerac Road	+27 (0)21 887 1132	info@lanzerac.co.za	www.lanzerac.co.za
Life & Leisure Self catering	20 Van Riebeeck St	+27 (0)21 886 6955	info@lifeandleisure.co.za	www.lifeandleisure.co.za
Malans Guest House	4 Keerom Street	+27 (0)21 887 8859	malansgh@gmail.com	www.malansgueshousestellenbosch.co.za
Oak Village B&B	7 Hamman Street	+27 (0)21 887 7889	oakvillage@volkskombuis.co.za	www.oakvillage.co.za
Roosenwijn Guest House	14 Van Riebeeck Street	+27 (0)21 883 3338	roosenwijn@stellenguest.co.za	www.stellenguest.co.za
Summerwood	28 Jonkershoek Road	+27 (0)21 887 4112	info@summerwood.co.za	www.summerwood.co.za
Villa Grande Guest House	1 Keerom Street	+27 (0)21 887 8454	info@villa-grande.com	https://www.villa-grande.com/
Hotel accommodation in Stellenbosch				
107 Dorpstraat Boutique Hotel	107 Dorp Street	+27 (0)21 882 8696	dorpboutiquehotel@icloud.com	https://www.107dorp.co.za/
Coopmanhuijs Boutique Hotel	33 Church Street	+27 (0)21 883 8207	gm@coopmanhuijs.co.za	https://coopmanhuijs.co.za/
Eendracht Village Hotel	161 Dorp Street	+27 (0)21 883 8843	info@eendracht-hotel.com	www.eendracht-hotel.com
Oude Werf Hotel	30 Church Street	+27 (0)21 887 4608	hotel@oudewerfhotel.co.za	www.oudewerfhotel.co.za
Stellenbosch Hotel	162 Dorp Street	+27 (0)21 888 0100	reservations@stellenboschhotel.co.za	www.stellenboschhotel.co.za
Other accommodation near Stellenbosch				
Protea Hotel Dorp Street	22 Dorp Street	+27 (0)21 883 9881	info@dorphuis.co.za	
Protea Hotel Tegno Park	35 Techno Ave, Techno Park	+27 (0)21 880 9500	info@phstellenbosch.com	

NAME	ADDRESS	TEL	EMAIL	WEBSITE
Soverby Guesthouse	Annandale Road, Lynedoch	+27 (0)21 881 3291 +27 (0) 84 901 2564	soverby@adept.co.za	www.soverby.co.za
Spier Hotel	R310 Baden Powell Drive	+27 (0)21 809 1100	reservations@spier.co.za	www.spier.co.za