

PROGRAMME

Sunday 8 April 2018	
11h00	Depart on Tour to Sterkfontein Caves and Maropeng Visitor Centre
17h00	Return From Tour
18h00	Welcome function
Monday 9 April 2018	
07h30	Registration open
08h30	Opening Martha Trujillo
08h40	P1 Keynote: A need for taxonomists to take actions before it's too late Ramon Rosselló-Móra
09h30	Tea Break
10h00	Session 1 - Chairperson Martha Trujillo
10h00	P2 Keynote: Update in the phylogeny and hierarchy of the members of the phylum <i>Actinobacteria</i> Wen-Jun Li
10h30	1.1 Revisiting genotypic and phenotypic properties as an aid to circumscribe species of the genus <i>Salinispora</i> Luis Maldonado
10h50	1.2 The use of whole genome sequencing to confirm the recognition of <i>M. noduli</i> and <i>M. saelicesensis</i> Raul Riesco
11h10	1.3 Genome-scale data call for a taxonomic rearrangement of <i>Geodermatophilaceae</i> Maria del Carmen Montero-Calasanz
11h30	1.4 Diversity and distribution of sphingomonads Yili Huang
11h50	1.5 Genome-informed <i>Bradyrhizobium</i> taxonomy: where to from here? Juanita Avontuur
12h10	1.6 Divergence and gene flow in <i>Xanthomonas</i> plant pathogens Marion Fischer-Le Saux
12h30	Lunch
13h30	Session 2 - Chairperson Barny Whitman
13h30	P3 Keynote: Creating the taxonomic structure for the phylum <i>Acidobacteria</i> Svetlana Dedysh
14h00	2.1 A core-genome sequence based taxonomy of the family <i>Leptotrichiaceae</i> calculated using EDGAR 2.0 Peter Kämpfer

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14h20	2.2 A global catalogue of microbial genomes - type strain sequencing project of WDCM Juncai Ma
14h40	2.3 Genome sequence-based criteria for species demarcation: Insights from the genus <i>Rickettsia</i> Pierre-Edouard Fournier
15h00	2.4 What exactly are bacterial subspecies? Stephanus Venter
15h20	Tea
15h50	Discussion: Where to with species descriptions (Leader Martha Trujillo)
17h00	Poster session with short introductions Group 1. Chairperson Stephanus Venter
18h30	Dinner
Tuesday 10 April 2018	
8h30	Session 3 - Chairperson Brian Hedlund
8h30	P4 Keynote: Phylogenomic analyses of a clade within the roseobacter group suggest taxonomic reassignments of species of the genera <i>Aestuariivita</i> , <i>Citricella</i> , <i>Loktanella</i> , <i>Nautella</i> , <i>Pelagibaca</i> , <i>Ruegeria</i> , <i>Thalassobius</i> , <i>Thiobacimonas</i> , and <i>Tropicibacter</i> and the proposal of the six novel genera <i>Cognatishimia</i> , <i>Cognatiyoonia</i> , <i>Flavimaricola</i> , <i>Limimaricola</i> , <i>Pseudaestuariivita</i> , and <i>Yoonia</i> Barney Whitman
9h00	3.1 Actinobacterial biodiversity: a potential driver for the South African Bio-economy Marilize Le Roes-Hill
9h20	3.2 Identification and recovery of "missing microbes" from the gut microbiota of human populations living non-industrial lifestyles Paul Lawson
9h40	3.3 Capturing the hidden bacterial diversity at the Lonar Crater, India formed ~52000 years ago Kamlesh Jangid
10h00	3.4 Phylogenetic characterisation of <i>Streptomyces</i> species causing fissure scab of potatoes in South Africa Michele Cloete
10h30	Tea
11h00	Session 4 - Chairperson Emma Steenkamp
11h00	P5 Keynote: Cultivation, physiology, genomic, and exometabolomic study of previously uncultivated Chloroflexi class TK10 (TK17), a global inhabitant of geothermal springs and other environments Brian Hedlund
11h30	4.1 Genomic diversity of human gut-associated <i>Treponema</i> inferred from shotgun metagenomic datasets Krithivasan Sankaranarayanan

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11h50	4.2 Application of whole genome sequencing to exploring intra-generic heterogeneity Vartul Sangal
12h10	4.3 Relating tRNA gene diversity with the evolution of <i>Planctomycetes-Verrucomicrobia-Chlamydia</i> (PVC) and PVC-like bacteria Bhagwan Rekadwad
12h30	4.4 Phylogenomic analyses: The whole is greater than the sum of its parts Marike Palmer
12h50	Lunch
14h00	BISMIS AGM
15h00	Tea
15h30	Poster session with short introductions Group 2. Chairperson Stephanus Venter
16h30	Bergey Award lecture P6 Keynote: Database-driven taxonomic framework for Bacteria and Archaea Jongsik Chun
18h30	Conference dinner
Wednesday 11 April 2018	
8h30	Session 5 - Chairperson Iain Sutcliffe
8h30	P7 Keynote: The evolution of fungal taxonomy: from cryptic Latin diagnoses to genome-facilitated systematics Wilhelm de Beer
9h00	5.1 Lessons from bacterial systematics are shaping our concepts of fungal species Emma Steenkamp
9h20	5.2 Multiple uses of genome sequences in characterizing novel bacteria Jeffrey Newman
9h40	5.3 Importance of microbial culture collections (mBRC's) Paul de Vos
10h00	Tea
10h30	Discussion: Bacterial systematics: What lies ahead? (Leader: Iain Sutcliffe)
11h30	Closing Iain Sutcliffe
12h00	Lunch
13h00	Depart on Lion Park tour / Lion Park, Lesedi, Pilanesberg Tour