

SASM Conference

Poster session: Wednesday 4 April and Thursday 5 April		
Disease		
Antibacterial and anti-quorum sensing potential of <i>Cryptocarya latifolia</i> against selected urinary tract	Itumeleng	Baloyi
Cytological study of the effect of nordihydroguaiaretic acid (NDGA) and its derivative terameprocol (M4N) on <i>Candida albicans</i>	Jacobus	Brink
Characterization of paramyxoviruses in mammalian hosts within South Africa	Erika	Bruck
Development of mammarena- and hantavirus nucleic acid detection assays for surveillance in non-volant small mammals of South Africa	Candice	Ceustermans
Assessing the effect of solar irradiated <i>Campylobacter jejuni</i> on the production of iNOS, pro-inflammatory cytokines and chemokines by RAW 264.7 macrophage cells in vitro	Patience	Chihomvu
Virulence determinants and antibiotic susceptibility profile of <i>Campylobacter</i> Spp. Isolated from children under the age of five attending clinics in the Northwest Province, South Africa	Martina	Chukwu
Identification of <i>Pelargonium sidoides</i> root-associated microbes and their potential for antifungal lipopeptide production	Lauren	du Toit
Spectrum of bacterial colonisation in patients admitted to a Tuberculosis hospital	Sharlene	Govender
Insights gained from sample diagnostics during anthrax outbreaks in the Kruger National Park, South Africa	Ayesha	Hassim
Development of an in-house ELISA for detection of Sindbis virus antibodies	Nicole	Kennedy
Investigating the production of 3-hydroxy fatty acids in <i>pseudomonas aeruginosa</i>	Evodia	Kgotle
Diversify or perish: exploring new ways to prevent infectious bronchitis in poultry	Liese	Kilian
Evaluating a novel disinfecting treatment to combat QAC tolerance in the nosocomial pathogen <i>Staphylococcus epidermidis</i> utilizing a bacteriophage encoded enzyme.	Liese	Kilian
Optimisation of <i>Megasphaera elsdenii</i> NCIMB 41125 biomass yield using the pulse-and- shift technique	Sydwell	Langa
T cell responses to the non-structural proteins of Crimean-Congo haemorrhagic fever virus in survivors of	Makgotso	Maotoana
Beneficial endophytes from medicinal crops in South Africa and Egypt	Thendo	Mashau
The biological control of <i>Fusarium</i> wilt of sweet potato using non-pathogenic <i>Fusarium oxysporum</i> rhizospheric endophytes and <i>Trichoderma</i> species	Tintswalo	Mathonsi
Prevalence of selected enteropathogens among patients attending health centres in Northern South Africa.	Renay	Ngobeni
Incidence and antibiotic susceptibility pattern of medically important bacteria in meat pie: Implications for public health	Godwin	Obande
The repurposing of anti-psychotic drugs, quetiapine and olanzapine as anti-cryptococcus drugs	Adepemi	Ogundeji
HST6 - a Stress Response Gene of <i>Candida albicans</i>	Bianca	Pieterse

Purification, characterization and identification of an anti-methicillin resistant <i>Staphylococcus aureus</i> compound from and endophytic <i>Curvularia</i> species	Nivisti	Singh
Ureaplasma species colonization of the placenta and histopathology in cases of preterm birth at Dora Nginza hospital, Port Elizabeth	Kaitlin	Sprong
Bacterial expression and solubilisation optimisation of Rotavirus VP7	Natalie	Vymetal
Industry		
Next-Generation Sequencing Analyses of Microbial Diversity from the Kogelberg Biosphere Reserve within the Cape Floral Kingdom	Sinqobile	Ndulini
AJB Botha - Anaerobic degradation of faecal sludge and associated microbial communities in continuously-stirred tank reactors	Albertus	Botha
antibiotic resistant bacteria and human pathogens	Jocelyn	Jardine
Antimicrobial activity of biosurfactant crude extracts produced by <i>Serratia</i> species	Thando	Ndlovu
Antioxidant and antibacterial activity of extractable and macromolecular antioxidant extracts of <i>Opuntia ficus-indica</i> cladodes	Christiana	Aruwa
Antiquorum sensing properties of <i>Apium graveolens</i> (celery)	Sekelwa	Cosa
Biological and enzymatic activity of actinobacteria associated with <i>Aloe ferox</i>	Nasreen	Isaacs
Characterization of a bioflocculant potentials of a uronic acid-containing glycoprotein produced by <i>Bacillus</i> sp. AEMREG4	Nozipo	Ntsangani
Coexpression of cellulase genes from a single transcript in <i>Saccharomyces cerevisiae</i> using a viral 2A peptide sequence	Marthinus	Myburgh
Development of eco-friendly Biostabiliser products for potential use in road construction	Veshara	Malapermal
Effect of Lactic Acid Bacteria (LAB) administered as Direct Fed Microbial (DFM) on weight gain and ruminal pH of two South African sheep breeds	Sinalo	Mani
The Environment		
Nutrient composition of Nigerian wild mushrooms: a comparative analysis of understudied species	Mobolaji	Adeniyi
Antibiotic resistance profile of <i>Staphylococcus aureus</i> Isolated from health chickens	AbdulGaniy	Agbaje
Adhesion and competitive exclusion characteristics of probiotic bacteria against enteroaggregative <i>Escherichia</i>	Wisdom	Agbemavor
Impact of beneficial rhizobacteria with biofertilizer potential on the growth of bambara groundnut	Caroline	Ajilogba
Production of Glutaminase by <i>Aspergillus niger</i>	Ayodeji	Amobonye
Prevalence of tuberculous lymphadenitis in slaughtered cattle in Eastern Cape, South Africa	Nolwazi	Bhembe

A wide range CRISPR-Cas9 (Clustered regularly interspaced short palindromic repeats- CRISPR associated systems9) system in yeasts	Eduvan	Bisschoff
Detection of virulent thermophilic Campylobacter species in chicken cloacal samples	Marie	Bissong
Resistance to the South African Cassava Mosaic Virus is Associated with the Activity of a RING Finger E3 Ubiquitin Ligase	Patience	Chatukuta
In pursuit of E. coli O157_LE Chenhaka	Lee-Hendra	Chenhaka
Isolation and screening for biosurfactant producing Serratia species	Tanya	Clements
Detection and quantification of clinical plasmid mediated AmpC beta-lactamase genes from mixed environmental samples and isolated from aquatic environments	Roelof	Coertze
Detecting single chain variable fragments' to potentially neutralise infectious bronchitis virus (IBV)	Janetta	Coetzee
In silico characterisation of Endo-polygalacturonase in members of the fungal order Agaricales	Martin	Coetzee
Biosynthesis of copper nanoparticles using a bioflocculant from Alcaligenis faecalis HCB2, characterization and application	Nkosinathi Googman	Dlamini
Investigating the influence of natural fungicides on Chenin Blanc wine organoleptic quality by using chemical, sensory and metabolomic approaches.	Ntombiyesicelo	Dzedze
Molecular characterisation and determination of proteolysis within biofilms and planktonic cells of Bacillus	James	Elegbeleye
Novel insights into precipitation and interactions of copper with Desulfosporosinus acidiphilus and	Corinne	Fourie
Onele Gcilitshana Poster Abstract	Onele	Gcilitshana
Network in South Africa	Luveshnie	Gounden
Polyhydroxyalkanoate-producing potential of bacteria isolated from pulp and paper mill sludge	Roshini	Govinden
Isolation and whole genome analysis of a lytic bacteriophage infected Bacillus anthracis isolate from Pafuri, South Africa	Ayesha	Hassim
Immunomics: In silico mapping of immune signalling pathways in chickens related to Avibacterium paragallinarum C-3 serovar infection.	Poojah	Jawallapersand
Antimicrobial susceptibility pattern of some selected bacterial pathogens of lower respiratory tract to commonly used antibiotics at university of Ilorin teaching hospital, Ilorin, Nigeria.	Zaharaddin	Kalgo
Putative virulence gene profiles of pathogenic escherichia coli isolated from beef abattoir samples	Christ - Donald	Kaptchouang Tchatchouang
Descriptive sensory profile of chicken meat and its relation to microbial flora during storage	Wendy	Katiyo
Determination of the growth promoting abilities of the selected microbial strains on crops cultivated in constant artificial environment	Motlagomang	Khantsi
Antibiotic-producing Actinobacteria associated with South African medicinal plants	Maria	King
Distribution and antibiotic resistance mechanisms of Staphylococcus aureus	Siziwe	Koba

Effect of simulated Cleaning In Place on the germination of <i>Bacillus cereus</i> spores isolated from Extended Shelf Life milk	Chane	Kruger
The everyday effects on honey bees, <i>Apis mellifera capensis</i> . A closer look at microbial gut health and immune	Kayla	Lawson
Evaluating the role of actinobacteria in plant health and growth enhancement of <i>Aspalathus linearis</i>	Danielle	Leukes
Understanding the role of arachidonic acid in increasing the susceptibility of <i>C. albicans</i> biofilms in the presence of fluconazole	Moses	Madende
Fusel alcohol biosynthesis in the <i>Ceratocystidaceae</i>	Dineo	Mailula
Poster session: Friday 6 April and Saturday 7 April		
The Environment		
Isolation, identification and screening of potential probiotic bacteria in milk from South African Saanen goats	Goitsewang	Makete
New insights into microbial rare earth interactions: Bioreduction and Bioaccumulation	Maleke	Maleke
The suitability of a low cost modified hydrogen sulphide (H ₂ S) kit to determine the microbial water	mokaba	malema
Characterisation of biocide resistant and antibiotic cross-resistant potential pathogens from sewage and river water	Brendon	Mann
Wastewater treatment plants as a potential source of multi- antimicrobial resistant <i>Aeromonas</i> spp.	Brendon	Mann
Soil bacteriological pollution in pig farm vicinity: assessment of bacterial dynamics and detection of antimicrobial resistance gene	Dikonketso	Matjuda
Investigation into the efficiency of Biofertilizers and Vermicompost used by smallholder farmers in South Africa	Rendani	Mbedzi
Occurrence of Non-Tuberculous Mycobacteria in Chloraminated Drinking Water Distribution Systems	Tlangelani	Mlambo
Antagonistic and probiotic properties of fungal strains associated with tomato fruits in South Africa.	Letlhogonolo	Moeng
Antibacterial effect of ethanolic fractions of <i>Polyalthia longifolia</i> leaves against <i>Staphylococcus aureus</i>	Aishat	Mohammed
Devising a portable sensitivity test for the rapid detection of <i>Enterococcus</i> spp in environmental water systems	Lesego	Molale-Tom
Antifungal activity of semi - synthetic eugenol derivatives agaist <i>Candida albicans</i>	Julitha	Molepo
Isolation and characterization of denitrifying bacteria from open cast mines of Southern Africa	Karabelo	Moloantoa
Diversity and dynamics of the bacterial community associated with different ground and surface waters used for drinking water production	Kinoshia	Moodley
Prevalence and antibiogram profiles of <i>Escherichia coli</i> O157:H7	Luyanda	Msolo
Effect of <i>Bidens pilosa</i> L in sulfate removal from industrial wastewater in a hydroponic pond system.	Qhamukile	Mthembu
Next-Generation Sequencing Analyses of Microbial Diversity from the Kogelberg Biosphere Reserve within the Cape Floral Kingdom	Sibongile	Mtimka
Determination of the impacts of Conservation and conventional agriculture on microbial diversity and activity	Ofhan	Mukhorro

Purification and Characterisation of alpha-amylase from Paenibacillus sp. D9 and E.coli recombinants	Kayleen	Naidu
Cladosporium in South Africa: Biodiversity boost or silent killer	Gcobisa	Ndlangalavu
The detection and characterization of potential zoonotic coronaviruses in bats and non-volant mammals in Irene and Meletse, South Africa	Hlengiwe	Nkambule
Appraisal of Wastewater Final Effluents as reservoirs of cholera and non-cholera Vibrio species: A case study of the two Wastewater Treatment Plants in Amathole and OR Tambo DM, South Africa.	Nolonwabo	Nontongana
The use of photodynamic treatment (PDT) as an alternative treatment for Cryptococcus infections	Mathope	Ntoi
produces a glycoprotein-bioflocculant	Ncedo	Ntozonke
Potential microbial drivers of biodegradation of crude oil sludge using composting technique	Linda	Obi
Vibrio species in wastewater final effluents: Implications on the environment and public health	Allisen	Okeyo
In-vitro evaluation of the antagonistic potential of Trichoderma asperellum soil isolate against Ganoderma, trunk rot pathogen of oil palm	Francisca	Okungbowa
Tripartite symbiosis of medicinal legumes, rhizobia and arbuscular mycorrhizal fungi avenue for drug search	Kgashane	Pilusa
Microbial analysis of commercial biofertilizers for quality assessment	Adekunle	Raimi
The biotechnological application of solid state fermentation using mushrooms in the production of animal feed	Christopher	Rothmann
Solubilisation and purification of recombinant Bluetongue virus VP7 expressed in a bacterial system	Bonnie	Russell
The detection and characterization of paramyxoviruses in small mammal populations in Meletse and Irene, South Africa	Lebogang	Sibiya
Responses of Microbial Communities to Seasonal Changes at Lake Cubhu	Gciniwe	Sithole
A Genome Wide Association Study (GWAS) to identify genes associated with mycelial growth rate in the plant pathogen Ceratocystis albifundus	Nicole	Soal
Optimisation of Protease Production in Indigenous Bacillus Spp. Isolated from Soil Samples in Lagos, Nigeria using Response Surface Methodology	Yewande	Suberu
Emergence of VRE in South Africa, implications on public health	Frank Eric	Tatsing
Tsipinana Sinawo abstract	sinawo	tsipinana
Application of organic –and bio-fertilisers on rhizospheric microbial enzyme activities and mycorrhizal colonisation of Bt maize	Deidre	van Wyk
Characterisation of wine yeasts for varietal red wine production by using chemical, sensory and metabolomic	Michell	Williams

Industry		
Evaluation of Antimicrobial activities of extract from <i>Pyrenacantha grandiflora</i> Baill. [ICACINACEAE]	Arinao	Murei
Heterologous expression of a fungal lignin peroxidase in <i>Pichia pastoris</i> .	Odwa	Biko
Heterologous expression of restriction endonucleases isolated by metagenomics from Kogelberg Biosphere Reserve soil	Priyen	Pillay
Optimization of a microwave-assisted dilute acid pretreatment of cowpea residue for fermentable sugar production	Somiame	Okuofu
Optimization, Purification, Characterization and Application of a Biosurfactant produced by <i>Acinetobacter</i>	Nokwanda	Ntshingila
Purification and characterization of exo-inulinase from <i>Paenibacillus</i> sp. D9 strain	Sphelele	Jeza
Recombinant expression of lysins derived from viral Diversity from the Kogelberg Biosphere Reserve within the Cape Floral Kingdom	Nwabisa	Jafta
Polyhydroxyalkanoate-producing potential of bacteria isolated from pulp and paper mill sludge	Roshini	Govinden
Production and characterization of bioflocculant from a consortium of marine bacterial strains and its	Sinethemba	Zulu
The antifungal and virulence attenuating activity of <i>Pelargonium sidoides</i> extracts against <i>Cryptococcus neoformans</i>	Shakier	Samie
The effect of blocking selected endocytic mechanisms on heterologous protein secretion in the yeast	Kim	Freeman
The in vitro detection and measurement of the unfolded protein response in <i>Saccharomyces cerevisiae</i>	Gillian	Cedras
Genetics, systematics and evolution		
Diversities of salmonella spp. in gut of chickens found in Mafikeng, north-west province, south africa	Stephen	Akinola
Phylogeography of <i>Bradyrhizobium</i> associated with native southern African legumes	Ricu	Claassens
South Africa	Johannes	Fourie
Comparative genome analysis of <i>Avibacterium paragallinarum</i> serogroups.	Julius	Hellmuth
Quality and characteristics of antibiotic resistant bacteria in water from drinking water production and distribution systems	Rinaldo	Kritzinger
Genetic Characterization of Fitness Traits and Efficacy of putative Probiotic Bacteria in South African Goats	takalani whitney	Maake
Site-directed mutagenesis to construct human papillomavirus type 31 long control region plasmid constructs	Yuri	Munsamy
Multiple uses of genome sequences in characterizing novel bacteria.	Jeffrey Newman	Newman
Whole genome sequence of <i>Bacillus oleronius</i> confirm its closest phylogenetic neighbour	Rodney	Owusu-Darko

Omics

Application of Metagenomic Analysis to Characterise Microbial Communities Involved in Biological Sulphate Reduction for ARD Bioremediation	Rob	Huddy
Elucidating Inhibitor tolerance traits of Wild Type <i>Saccharomyces cerevisiae</i> with QTL analyses	Riaan	de Witt
Hub WRKY transcription factors and interacting partners in response to cassava mosaic geminiviruses	Warren	Freeborough
Metagenomic link between enhanced bio-methane production and water hyacinth (<i>Eichornia crassipes</i>) pre-treatment	Ashira	Roopnarain
The metavirome of Kogelberg Biosphere Reserve fynbos soil	Jane	Segobola
The use of genome comparisons to identify processes potentially involved in host-specificity in <i>Fusarium</i>	Claudette	Dewing
Awareness and education		
Evaluation of safety and colonization properties of putative probiotic bacteria	Ziyanda	Dlamini
<i>Plesiomonas</i> -related research disproportionate with high prevalent rates in Africa	Temitope	Ekundayo