

PROGRAMME

DAY 1

Wednesday, 19 October 2011

08h00 – 08h40 Registrations

08h40 – 08h50 Welcome

Dr Thabi Maitin (Chair) Research Capacity Development, MRC
Prof Ali Dhansay, Acting President and Vice President: Research, MRC
MRC Board Prerepresentative

09h00 – 09h30

Keynote talk

Mycobacterial heterogeneity in tuberculosis infection – “Extreme Makeover”

Dr Bavesh Kana

Director of the DST/NRF Centre of Excellence for Biomedical TB Research, Faculty of Health Sciences at the University of the Witwatersrand (Wits) / National Health Laboratory

PARALLEL SESSION 1

Biomedical

Venue: Auditorium

Chair: Dr Andre Loxton

09h30 – 09h45

Cyclopa maculata has anti-obesity effects in wistar rats

O Patel

09h45 – 10h00

The role of TNF in experimental tuberculosis of the central nervous system

B Sebesho

10h00 – 10h15

The effects of clofazimine on mycobacterial biofilm formation

T Mothiba

10h15 – 10h30

Msx2 expression is positively associated with the osteoblastic potential of adipose-derived stromal cells

H Gijzen

10h30 – 10h35

Chemical profiling and antimicrobial activity of Salvia repens plants grown under different conditions

L Lekgari **PP**

10h35 – 10h40

Anti-obesity properties of rooibos (Aspalathus linearis) in 3T3-L1 adipocytes

M Sanderson **PP**

10h40 – 10h45

Deciphering the potential cytoprotective role of novel heat shock responsive proteins

C Kimar **PP**

Clinical

Venue: Restaurant

Chairs: Dr SKO Ntwampe

09h30 – 09h45

Understanding host immune function during Central Nervous System Tuberculosis infection: Neural route of Mycobacterium infection

P Randall

09h45 – 10h00

Development of HCV genotype 5A sub genomic replicon RNA from HCV positive sera

C Kinge

- 10h00 – 10h15 The role of cell specific Tumour Necrosis Factor in the host's immune response against *Mycobacterium tuberculosis infection*
N Allie
- 10h15 – 10h30 Prevalence of antimalarial drug resistance markers in plasmodium falciparum isolates from Gaza Province, Mozambique following changes in malaria treatment policy
J Chewparsad
- 10h30 – 10h45 Statin-induced autophagy and phagolysosomal maturation leads to reduced growth of intracellular pathogens
S Parihar
- 10h45– 10h50 Correspondence between self-reported and objectively determined memory and attention/concentration performance in traumatized adolescents
L Martin **PP**

10h50 – 11h20

TEA

PARALLEL SESSION 2

Biomedical

Venue: Auditorium

Chair: Dr Collet Dandara

- 11h20 – 11h35 Red or white wine: which one should you drink to protect your heart?
Z Albertyn
- 11h35 – 11h50 Antifungal and antibacterial activity of *Salvia runcinata* L.F. extracts from in vitro and hairy root organ cultures
S Figlan
- 11h50– 12h05 The use of dietary ω -6/ ω -3 fatty acid ratios as potential chemopreventive tools against colon cancer
C Abrahams
- 12h05 – 12h20 Anticancer properties of unfermented rooibos (*Aspalathus linearis*), honeybush (*Cyclopia* spp) and green tea (*Camellia sinensis*) in different cell lines: role of polyphenols
S Samodien
- 12h20 – 12h35 The role of resuscitation promoting factors in peptidoglycan hydrolysis and reactivation from dormancy in *Mycobacterium smegmatis*
G Beukes
- 12h35 – 12h40 The production of potential anticancer anthraquinones in genetically transformed hairy roots of *Ceratostylis triloba*
L Naicker **PP**
- 12h40 - 12h45 Investigating the role of IL-4 receptor alpha signalling through CD4⁺ T cells in ovalbumin-induced allergic airway disease
J Jayakumar **PP**

Public Health/Translational

Venue: Restaurant

Chair: Prof Ilse Truter

- 11h20 – 11h35 The Pan African Clinical Trials Registry (www.pactr.org) Monitoring child-health related trial activity
A Abrams

- 11h35 – 11h50 Microbiological hazards associated with the food safety in childcare facilities around Bloemfontein
N Badoa
- 11h50– 12h05 Constitutive modelling of degradation induced mechanical changes in polyester-urethane scaffold for soft tissue regeneration
H Krynauw
- 12h05 – 12h20 Exploring students perceptions of the risk and protective factors associated with child sexual abuse and incest
C Lambert
- 12h20 – 12h25 It's Important to take your medication everyday okay. An evaluation of counselling for ARV adherence support in the Western Cape
S Dewing **PP**
- 12h25 – 12h30 Inter-professional collaboration between general practitioners and community pharmacists: General practitioners' perspectives
E Egieyeh **PP**
- 12h30 – 12h35 Challenges in providing appropriate incentives to study participants in low-income settings
S Ndwayana **PP**
- 12h35 – 12h40 Causes of child mortality in Mafikeng municipality, North West Province: Implications for health interventions
M Mokone **PP**
- 13h00 – 13h30 LUNCH

PARALLEL SESSION 3

Biomedical

Venue: Auditorium

Chair: Dr Peter Owira

- 13h30 – 13h45 Vascular imaging of the adipose tissue using peptide -functionalised quantum dots
N Thovhogi
- 13h45 – 14h00 Role of the safe pathway and the mitochondria in HDL cholesterol (and its constituent sphingosine-1-phosphate) induced cardioprotection
D Hacking
- 14h00 – 14h15 The role of DNA glycosylases in mutagenesis and adaptation to stress in mycobacteria
B Gordhan
- 14h15 – 14h30 Initiation of allergen specific T-helper 2 immune responses in the absence of IL-4 signals CD4+ T cells
F Kirstein
- 14h30 – 14h45 Full genome characterisation of selected Group A G9 rotavirus strains isolated from Central, East and Southern Africa between 1999 and 2010
M Nyaga
- 14h45 – 15h00 Functional characterization of molybdopterin synthase-encoding genes in mycobacteria
N Narrandes
- 15h00 – 15h05 An in vitro study of repigmentation in vitiligo and partial-thickness burn wounds
J Chang **PP**
- 15h05 – 15h10 The effect of prosopis glandulosa (diavitetm) on rat cardiac- and skeletal muscle insulin sensitivity
C George **PP**

Public Health/Translational Venue: Restaurant Chair: Prof Ntambwe Malangu

- 15h30 – 15h45 Isolation of Somatic and F –RNA phage types from potable and non potable water sources in the North West Province - A Pilot Study
K Mabote
- 15h45 – 16h00 Assessment of the uptake of infant referrals by community health workers to public health facilities in Umlazi, KwaZulu-Natal
D Nsibande
- 16h00 – 16h15 Assessment of household water use and treatment in rural communities of Limpopo Province
L Mudau
- 16h15 – 16h30 Is love all men need? Masculinity, romantic love and violence prevention
C Rule
- 16h30 – 16h45 Multi-drug resistant-TB is evolving towards totally drug resistant-TB in the Eastern Cape, South Africa
M Tait
- 16h45 – 16h50 Child Maltreatment Scale: Initial Phase in the Development Process
G Ismail **PP**
- 16h50 – 16h55 Acceptability of using an Audio Computer Administered Self Interview tool among women aged 16 to 44 in a peri-urban setting in the Western Cape, South Africa
X Nokoyo **PP**
- 16h55 – 17h00 The molecular epidemiology of Streptococcus pyogenes pharyngitis among children in the Vanguard Community (Bonteheuwel /Langa), Cape Town, South Africa
B Muhamed **PP**
- 17h00 CLOSING FOR DAY

PROGRAMME

DAY 2

Thursday, 20 October 2011

08h40 – 09h00 Registration

09h00 – 09h30 **Keynote talk**

Vaccine Development in Africa – Quo vadis?

Dr Morena Makhoana

CEO Biovac Institute

PARALLEL SESSION 5

Biomedical

Venue: Auditorium

Chair: Prof Marco Weinberg

09h30 – 09h45 Antibacterial activity of some medicinal plant combinations used in the greater Cape Town region

S Zonyane

09h45 – 10h00 Immunoglobulin e-producing b lymphocytes mediate ulcerative colitis

J Hoving

10h00 – 10h15 Antifungal activity of Western Cape *Salvia africana-lutea* populations against *Fusarium* species

M Nkomo

10h15 – 10h30 The Role of TBX3 in Programmed Cell Death

W Kröger

10h30 – 10h35 Molecular genetics: strategies to identify congenital cataract genes in captive-bred vervet monkeys

Z Magwebu **PP**

Clinical and public health/translational

Venue: Restaurant

Chair: Dr K Kasongo

09h30 – 09h45 Are memory, sleep disturbances associated with acute stress disorder?

S Suliman

09h45 – 10h00 A tumour suppressor role for the TBX3 transcription factor in fibroblasts

A Cooper

10h00 – 10h05 Impulsivity in obsessive-compulsive disorder: clinical and genetic correlates

B Coetzee **PP**

10h05 – 10h10 A mechanistic understanding of the interaction between neuronal nitric oxide synthase (NOS) and beta amyloid peptide (A β) motifs: An insight into the etiology of alzheimers disease

E Padayachee **PP**

- 10h10 – 10h15 Repigmentation in vitiligo: an immunohistochemical analysis of melanocyte migration, proliferation, and differentiation
M Petersen **PP**
- 10h15 – 10h30 The tumor necrosis factor- α gene polymorphisms -308 G/A and -238 G/A modulate the relationship between dietary fat intake, obesity risk and serum lipid concentrations in black and white South African women
Y Joffe
- 10h30 – 10h45 TNFRP75 promotes mycobacterium tuberculosis pathogenesis
R Keeton
- 10h45 – 10h50 Adolescent experiences in a clinical trial - A pilot study
A Abrams **PP**
- 10h50 – 10h55 The usefulness of alternative classifications of mortality for health planning?
I Neethling **PP**
- 10h55 – 11h00 Fusarium mycotoxins in commercially produced indigenous banana beer (Urwagwa) in Rwanda
J Mukamugema **PP**
- 11h00 – 11h30 TEA

PARALLEL SESSION 6

Biomedical

Venue: Auditorium

Chair: Dr Zenixole Tshentu

- 11h30 – 11h45 Regulation of allergic airway disease by IL-4/IL-13 activated macrophages and dendritic cells
N Nieuwenhuizen
- 11h45 – 12h00 Detection and characterization of circulating NSP4 genotypes in children presenting with rotavirus diarrhoea in the Gauteng Region
F Mapuroma
- 12h00 – 12h15 The buffering effect of voluntary exercise on relative telomere length in a rat model of developmental stress
M Botha
- 12h15 – 12h30 The role of IL-4R α , IL-4, and IL-13 in spatial learning and memory
T Brombacher
- 12h30 – 12h45 Anti-tuberculosis drugs: when heroes become villains
G Louw
- 12h45 – 13h00 The derivation of pigmented cells from mouse embryonic stem cells
M Goolam
- 13h00 – 13h05 The conjugated linoleic fatty acid content of dairy cow milk as affected by breed and diet
B Sasanti **PP**
- 13h05 – 13h10 Investigating the effect of early postnatal maternal separation and adult restraint stress on gene expression in the rat ventral hippocampus
I Uys **PP**
- 13h10 – 13h15 Phenotypic characterization of Δ mobA mutants of Mycobacterium tuberculosis and Mycobacterium smegmatis
M Williams **PP**

Public Health/Translational

Venue: Restaurant

Chair: Prof Cl Obi

- 11h20 – 11h35 Epidemiology of rotavirus diarrhoea in children under five years of age attending selected public and private healthcare facilities in 2009 ? 2010, Swaziland
[G Maphalala](#)
- 11h35 – 11h50 Measuring accuracy of health and medical web sites through web site reviewing: a pilot
[V Gunguluza](#)
- 11h50 – 12h05 AfroAIDSinfo: Good practice guidelines for evaluating policy articles
[H Makowa](#)
- 12h05 – 12h20 Use of traditional medicines for chronic health conditions in Cape Town PURE Study participants: A pilot study
[K Ndayi](#)
- 12h20 – 12h25 Psycho-graphic predictors of art non-adherence: treatment intervention among patients receiving art in Gauteng, South Africa
[L Phiri](#) **PP**
- 12h25 – 12h30 Does the number of experienced abuses impact on measures of neurocognition in trauma exposed South African youth?
[N Revington](#) **PP**
- 12h30 – 12h35 The effect of progressive resistance training on plasma lipoproteins in post-menopausal women
[J Viljoen](#) **PP**
- 13h15 – 14h00 LUNCH
- 14h00 – 14:30 PRIZE-GIVING AND CLOSING