

PHARMACOGENETICS AND PRECISION MEDICINE CONFERENCE PROGRAM

University of Cape Town, South Africa

4 – 9 April 2016

Monday, 4th April 2016

09:00-11:00	Registration for Satellite Meeting
11:00-17:00	Bioinformatics Workshop

Tuesday, 5th April 2016

09:00-17:00	Bioinformatics Workshop
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Wednesday, 6th April 2016

09:00-17:00	Bioinformatics Workshop
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THURSDAY, 7TH APRIL 2016 PHARMACOGENETICS AND PRECISION MEDICINE CONFERENCE

10:00-13:00	Registration Venue: IDM Legotla 3A
13:00-14:00	Opening Ceremony: Wolfson lecture Theatre Chair: Professor Gary Maartens; Acting Head, Department of Medicine, University of Cape Town and Groote Schuur Hospital
14:00-15:00	INVITED SPEAKER I: Mining African Genome Data for Variants of Pharmacogenomics Relevance <i>Professor Michèle Ramsay (Sydney Brenner Institute for Molecular Bioscience and Division of Human Genetics, University of the Witwatersrand, Johannesburg)</i>
15:00-15:20	Tea/Coffee Break

SESSION 1: SAHGP

Chairs: Professor Michael Pepper and Professor Michèle Ramsay

15:20-15:40	Invited Speaker II Southern African Human Genome Programme (SAHGP): Introduction on the Program aims and objectives <i>Professor Michael Pepper</i>
15:40-16:05	SAHGP Speaker Southern African Human Genome Programme (SAHGP): Deep whole genome sequencing provides insight into the genomic architecture of South Africans. <i>Professor Michèle Ramsay, Sydney Brenner Institute for Molecular Bioscience, University of the Witwatersrand</i>
16:05-16:30	Invited Speaker III Southern African Human Genome Programme (SAHGP): Data Analysis from African Whole Genome Sequences. <i>Professor Nicky Mulder, University of Cape Town</i>
16:30-17:00	Invited Speaker IV: Reduced Salivary Cortisone, but Comparable Salivary Cortisol in Addison's disease Patients, Compared to Healthy Controls. <i>Professor Ian Ross; PGWC: Medical Specialist(Sub Speciality), Division of Endocrinology & Diabetology, University of Cape Town</i>

17:00-18:00 POSTER SESSION I

19:00-22:00 Welcome Reception: Venue: IDM Cafeteria (by IDEAS Café)

Friday, 8th April 2016		
SESSION 2: Wolfson Lecture Theatre Chairs: Professor Louise Warnich and Professor Andrea Gaedigk		
08:30-08:50	O-01: Pharmacogenetics in Botswana: Interethnic differences and public health <i>Dr Giacomo Maria Paganotti (Botswana-UPenn Partnership)</i>	
08:50-09:10	O-02: Relationship between CYP2C19 genotype and proguanil metabolic ratio in sickle cell disease patients and non-sickle cell <i>Dr Olufunmilayo Egunoluwa Adejumo (Department of Pharmaceutical Chemistry, Olabisi Onabanjo University)</i>	
09:10-09:40	INVITED SPEAKER V: CYP2D6 pharmacogenetics from WGS to clinical implementation <i>Professor Andrea Gaedigk (Clinical Pharmacology, Toxicology & Therapeutic Innovation, Children's Mercy Hospital, USA)</i>	
09:40-10:10	INVITED SPEAKER VI: Discovery & Validation of Urinary Biomarkers of Tuberculosis Disease <i>Professor Jonathan Blackburn (Division of Chemical & Systems Biology, Department of Integrative Biomedical Sciences; & Institute of Infectious Disease & Molecular Medicine, University of Cape Town)</i>	
10:10-10:30	O-03: A South African study for Clinical pharmacogenomics <i>Dr Judit Kumuthini (Centre for Proteomic and Genomic Research)</i>	
10:30-10:50	O-04: Platinum Sponsor Agilent Genomics in the age of Personalized Medicine <i>Michelle Bronze (Diagnostech, South Africa)</i>	
10:50-11:10	Tea/Coffee Break	
11:10 -12:10	CONFERENCE KEY NOTE PLENARY SPEAKER: Genomics and Therapeutics <i>Prof Sir Munir Pirmohamed (Wolfson Centre for Personalised Medicine, University of Liverpool)</i>	
	SESSION 3A: Wolfson Lecture Theatre Chair: Professor AC Allabi	SESSION 3B: MAC Club Chair: Dr Shaheen Mowla
12:10-12:30	O-05: Over exposure to efavirenz plasma concentrations among Beninese HIV patients <i>A/Professor Aurel Constant Allabi (Unité de Pharmacologie, Université d'Abomey-Calavi)</i>	O-08: Carpal tunnel syndrome: The role of collagen gene variants <i>Dr Marilize Burger (Division of Exercise Science and Sports Medicine, University of Cape Town)</i>
12:30-12:50	O-06: Regulation of NFKB1 implicated in antipsychotic treatment response in a South African first episode schizophrenia cohort. <i>Miss Ellen Susan Ovenden (Department of Genetics, Stellenbosch University)</i>	O-09: Identifying and assessing mitochondrial DNA variation that could play a role in disease onset or progression <i>Mrs Marianne Pretorius (Center for Human Metabolomics, North-West University)</i>
12:50-13:10	O-07: A pharmacokinetic evaluation of the drug-drug interaction between rifampicin and metformin in a hyperglycaemic rat model <i>Miss Katya Govender (Department of Pharmacology, University of KwaZulu Natal)</i>	O-10: Biomarker identification in cancer-Applications in molecular pathology. <i>Associate Professor Richard Naidoo, Department of Pathology, University of Cape Town.</i>
13:10-14:30	LUNCH & POSTER SESSION II	

SESSION 4: Wolfson Lecture Theatre			
Chair: Professor Ambroise Wonkam			
14:30-15:00	INVITED SPEAKER VII: Perspectives on Pharmacogenetics of Sickle Cell Disease <i>Professor Ambroise Wonkam, MD, PhD; A professor of medical geneticist, in the Division of Human Genetics, Faculty of Health Sciences, and University of Cape Town, South Africa.</i>		
15:00-15:30	Invited Speaker VIII: Discovery Health Exome screening project <i>Dr Gary Kantor (Discovery Health, South Africa)</i>		
15:30-16:00	O-011: Novel genetic variant improves bleeding risk prediction in warfarin treated African Americans <i>Dr Minoli Perera (Department of Medicine, University of Chicago)</i>		
16:00-16:30 Tea/Coffee Break			
SESSION 5A: Wolfson Lecture Theatre		SESSION 5B: Jolly Lecture Theatre	
Chair: Professor Sharon Prince		Chair: Dr Mamadou Kaba	
16:30-16:50	O-12: The B-cell specific DNA-modifying enzyme, Activation-Induced cytidine Deaminase (AID), promotes proliferation, migration and genome instability in cancer cells <i>Dr Shaheen Mowla (Division of Haematology, University of Cape Town)</i>	O-17: Perspectives on human microbiome research in Africa <i>Dr Mamadou Kaba (Division of Medical Microbiology, University of Cape Town)</i>	
16:50-17:10	O-13: Her2 assessment in breast cancer subtyping: From immunohistochemistry to microarrays and whole exome sequencing <i>Professor Maritha Kotze (Department of Pathology, Stellenbosch University)</i>	O-18: The gut microbiome in PTSD <i>Dr Stefanie Malan-Müller (Department of Psychiatry, Stellenbosch University)</i>	
17:10-17:30	O-14: Micro-RNA-137 replacement to target the oncogenic TBX3 in the treatment of melanoma <i>Dr Jade Peres (Department of Human Biology, University of Cape Town)</i>	O-19: Improved tuberculosis treatment monitoring with molecular bacterial load assay (MBLA) <i>Dr Elizabeth Kampira (College of Medicine, University of Malawi)</i>	
17:30-17:50	O-15: Targeted metabolomics reveals dysregulated arginine, proline and propionylcarnitine in HIV-infected patients with antiretroviral therapy related polyneuropathy <i>Mr Frank Ndakala (University of Nairobi, Institute of Tropical and Infectious Diseases)</i>	O-20: Genome-wide association study of ancestry-specific TB risk in the South African coloured population <i>Dr Emile Chimusa (Department of Integrative Biomedical Sciences, University of Cape Town)</i>	
17:50-18:10	O-16: Implementation of PGx in the Austrian health care system <i>Professor. Dr. med. MARKUS PAULMICHL Paracelsus Medical University, Salzburg, Austria</i>	O-21: Evaluation of CYP450 inhibition profile of selected medicinal herbal plant extracts and predictive potential of drug interaction <i>Nicholas Ekow Thomford. Division of Human Genetics & IDM, University of Cape Town, South Africa.</i>	
18:20-19:00	African Pharmacogenomics Consortium Meeting (Venue: Wolfson Lecture Theatre)		
20:00: -23:00	CONFERENCE DINNER: MOYO, KIRSTENBOSCH BOTANICAL GARDENS		
Saturday, 9 th April 2016			

SESSION 6 - Sponsored by the Section of Pharmacogenetics and Pharmacogenomics, IUPHAR	
Wolfson Lecture Theatre	
Pharmacogenetics: A focus on infectious diseases and population diversity	
<i>Chairpersons: Professor Guilherme Suarez-Kurtz and Prof Collet Dandara</i>	
08:30-08:45	Introduction: Professor Guilherme Suarez-Kurtz
08:45-09:10	IINVITED SPEAKER IX: Pharmacogenomics in admixed populations <i>Professor Guilherme Suarez-Kurtz (Brazilian Pharmacogenomics Network, Brazil)</i>
09:10-09:35	INVITED SPEAKER X: Pharmacogenetics of HIV, HIV-TB, and HIV-malaria co-treatment <i>Professor Eleni Aklillu (Karolinska Institute, Sweden)</i>
09:35-10:00	INVITED SPEAKER XI: Pharmacogenetics of Efavirenz: Motivating for genotype-assisted dosing <i>Professor Collet Dandara (University of Cape Town, South Africa)</i>
10:00-10:25	INVITED SPEAKER : Genomics of the bug and host as determinants of drug response <i>Professor Sir Munir Pirmohamed (University of Liverpool, the Wolfson Centre for Personalised Medicine, United Kingdom)</i>
10:25-10:55	SPEAKER XII: Ethical Legal and Social Implications for Genomic Bio banking in South Africa <i>Professor Keymanthri Moodley (Professor & Director, Centre for Medical Ethics & Law Department of Medicine, Faculty of Health Sciences, Stellenbosch University South Africa)</i>
10:55-11:10	Tea/Coffee Break
Session 7 - Sponsored by ASSAf; Ethical, Legal, Social Implications (ELSI): Human Genetics consensus study (Wolfson Lecture Theatre) <i>Chair: Professor Michael Pepper and Professor Rose Diab</i>	
11:10-13:35	ASSAf Speaker: ELSI: Human Genetics Consensus Study: Introduction and overview of the ASSAf project. <i>Professor Michael Pepper, Pretoria University</i>
11:35-12:00	ASSAf Speaker: ELSI: Human Genetics Consensus Study: Respect for persons. <i>Dr Freddy Myongani</i>
12:00-12:25	ASSAf Speaker: ELSI: Human Genetics Consensus Study: Relationship building “Relationship-building with broad stakeholders on the SAX study, to promote further community engagement activities” <i>Dr Megan Campbell</i>
12:25-12:50	ASSAf Speaker: ELSI: Human Genetics Consensus Study: Good stewardship. <i>Dr Jantina De Vries</i>
12:50-13:15	ASSAf discussion on points raised in the presentations
13:15-14:00	Lunch
14:00-15:00	Chair: Professor Collet Dandara Invited Speaker XIII: Genomic Diversity of African populations and pharmacogenomics in the safe and efficacious use of efavirenz in the treatment of HIV/AIDS <i>Professor Collen Masimirembwa, African Institute for Biomedical Science and Technology (AiBST)</i>
15:00-16:00	Invited Speaker XIV: Host directed therapies against tuberculosis <i>Professor Robert Wilkinson: Director, Clinical Infectious Diseases Research Initiative (CIDRI), University of Cape Town, SOUTH AFRICA</i>
16:00	Closing
Sunday, 10th April 2016	Tours for the rest of the delegates (own arrangements)
Sunday, 10th April 2016 (Attendance is by invitation)	ASSAf sponsored: Human Genetics Consensus Study Committee meeting (By Invitation) (venue: To be advised)