



# **The 5<sup>th</sup> Annual Meeting of The African Society of Human Genetics**

in conjunction with

**The First Annual meeting of The Division of Human Genetics and Genome Research, NRC and The National Society of Human Genetics**

## **Conference Program**

*Conference Theme:*

**Genomics Research in Africa:**

**Implications for Disease Diagnosis, Treatment and Drug Development**

**Day 0 (2<sup>nd</sup> November 2007)**

1800-1900

**REGISTRATION**

1900-2200

**WELCOME RECEPTION and BUFFET DINNER**

**Teeba Ballroom**

**Semiramis Intercontinental Hotel**

## Day 1 (3<sup>rd</sup> November 2007)

### Session 1

#### Opening Remarks and Keynote lecture

0930 – 0935 Opening remarks by Prof Amal Mahmoud, DHGGR Head  
0935 – 0940 Opening remarks by Samia Temtamy, NSHG President  
0940 – 0950 Opening remarks by Charles Rotimi, AfSHG President  
0950 – 1000 Opening remarks by Professor Hany El-Nazer, NRC Director  
1000 – 1100 **Keynote Speaker:** Africa and the Genomics Revolution - Francis Collins, Director, NHGRI/NIH, USA

**1100 – 1125**

**Break**

### Session 2

#### Understanding Genetic Diseases in Africa: Implications for Research and Public Health Strategies (Chairs: Samia Temtamy and Amal Mahmoud)

1125– 1145 Infectious Diseases Genomics: The Malaria GEN Network – D. Kwiatkowski (UK)  
1145 – 1205 Genetic Epidemiology of Diabetes in Africa - Charles Rotimi (USA)  
1205 – 1225 Stratification of Cancers into Genetic Subtypes is an Aide to Clinical Management - Raj Ramesar (South Africa)  
1225 – 1245 Genetics of Hypertension in Africa - Adebawale Adeyemo (USA)  
1245 – 1300 International HapMap repositories – update and challenges - Duncan Ngare (Kenya) and Donald Coppock (USA)

**1300 – 1430**

**Lunch and poster viewing**

1430 – 1500

Session 2 Discussion – all speakers

### Session 3

#### Understanding the Genetic Basis of Common Human Diseases (Chairs: Melanie Newport and Raj Ramesar)

1500 – 1515 Recent Studies in limb and skeletal malformations - Samia Temtamy (Egypt)  
1515 - 1530 A novel approach for the study of the Genetics of Hypertension in Arabs. Heritability and linkage analysis results of “Oman Family Study” - Mohammed. Hassan (Oman)  
1530 - 1545 Identification of loci for the obesity-diabetes phenotypes among Arabs of the “Oman Family Study” - Riad. Bayoumi (Oman)  
1545 - 1555 \*High prevalence of the 516 G>T mutation in CYP2B6 and impact on the population pharmacogenetics of efavirin in HIV/AIDS outpatients in Zimbabwe - Christopher Nyakutira (Zimbabwe)  
1555 – 1605 \*CCR5 gene polymorphisms in two Berber communities and a cosmopolitan population from Tunisia - Asma JIzi (Tunisia)

**1700 – 2100**

**Evening Social Event: Light and Sound Show at the Pyramids**

## Day 2 (November 4<sup>th</sup> 2007)

0830 – 0930 **Early bird teaching session** – workshop on gene expression data mining and analysis - Joseph Beyene (Canada)

**Session 4** **Human Genetic Variation and Disease** (Chairs: Giorgio Sirugo and Muntaser Ibrahim)

0930 – 1000 **Keynote:** Human polymorphisms and malaria selection - Lucio Luzzatto (Italy)

1000 – 1015 The Structure and Migrations of Human Populations in Africa– Floyd Reed (USA)

1015 - 1025 \*Genetic diversity within Africa based on Autosomal haplotypes – Sylvester Kajuna (Tanzania)

**Session 5** **Understanding the Human Journey Within and Outside of Africa** (Chairs: Giorgio Sirugo and Muntaser Ibrahim)

1025 – 1045 Understanding the Human Migration: Genographic Project - Himla Soodyall (S. Africa)

1045 – 1105 Regional populations and the increasingly flat world of genetics - Emily Niemitz (Nature Genetics, USA)

**1105 – 1135 Break**

**Session 6** **Free papers** (Chairs: Eman Aboul-Ezz and Luke Mumba)

1135 – 1145 Different genetic patterns of Y chromosome and mitochondrial DNA variation, with implications to the peopling of Sudan - Hisham Hassan (Sudan)

1145 – 1155 A genome-wide gene expression signature of lifestyle in peripheral blood of Moroccan Amazigh - Y Idaghdour (USA)

1155 - 1205 Large scale screen of candidate genes in durable vaccine-induced immunity to HBV in The Gambia - Branwen Hennig (UK)

1205 - 1215 Evidence for a genetic contribution to rheumatic fever occurrence: a systematic review and meta-analysis of twin studies - Mark Engel (South Africa)

1215 - 1225 Role of interphase fluorescence in situ hybridization and M-FISH in multiple myeloma - Ashraf Ibrahim (Egypt)

1225 - 1235 Molecular diagnosis of hereditary neurological disease in Mali - KG Balk (Mali)

1235 - 1245 Molecular investigation and development of DNA-based tools for diagnosis of metabolic diseases in Tunisia - W Cherif (Tunisia)

**1245 – 1400 Lunch and poster viewing**

**Session 7** **Genetics and Genomics of Cancer** (Chairs: Riad Bayoumi and Muntaser Ibrahim)

1400 – 1430 **Keynote:** The role of genomics in understanding the basic molecular mechanisms of cancer - Sir Walter Bodmer (UK)

1430 – 1445 Epigenetic and chromosomal modification of colorectal cancer in African Americans - Hassan Ashktorab (USA)

1445 – 1500 Ethnicity and molecular fingerprints in sub-Saharan African breast cancer: studies in Central Sudan - Renato Mariani-Costantini (Italy)

1500 – 1515 Genomics of Cancer: Preventive and Predictive Medicine Implications - Lotfi Chouchane (Qatar/Tunisia)

1515 – 1530 Functional Integrated 'Omics' in Cancer Wael El-Rifae (Egypt/USA)

1530 – 1550

**Break**

**Session 8**

**Free papers** (Chairs: Ekram Fateen and Himla Soodyall)

1550 – 1600

Molecular investigation of hereditary breast cancer in Tunisia - W Troudi (Tunisia/USA)

1600 – 1610

Haplotypic classification of DEB in Tunisia: implication for prenatal diagnosis - H Ouragini (Tunisia)

1610 – 1620

Selection, validation and testing SNPs for human identification - Iliena Pietrangeli (Italy)

1620 – 1630

CoCoNUT: A software system for comparative genomics - Mohamed Abouelhoda (Germany)

1630 – 1640

Prevalence rates of congenital anomalies in Giza, Egypt (2005-2007): establishment of population bases registry - Ghada Abdel-Salam (Egypt)

1640 – 1650

Acceptability of prenatal diagnosis of sickle disease by a sample of Cameroonian parents with an affected child - Ambroise Wonkam (Cameroon)

1650 – 1700

Informed consent process for community based genetic research in Southern Ethiopia – Gail Davey (Ethiopia)

**2000**

**Gala Dinner – Nile Cruise** with announcement of the winner the AfSHG Prize for young investigators in the field of genetics in Africa (Branwen Hennig)

## Day 3 (5<sup>th</sup> November 2007)

### Session 9 Genomic Technologies, Pharmacogenomics and Bioinformatics (Chair Joseph Beyene and Raj Ramesar)

- 0830 - 0845 Genomic sequence data mining: a way to identify disease causing genes - Farideh Chitsaz (USA)
- 0845 - 0900 Genomic Biomarkers in Pharmacogenetics and Pharmacogenomics - Giuseppe Novelli (Italy)
- 0900 - 0915 Bioinformatics networks in Africa - Daniel Jacobson (South Africa)
- 0915 - 0930 Bio-Repositories in Africa - Pasquale De Blasio (Italy)

### **0930 - 1100 Society Annual General Meeting** (Chairs: Melanie Newport and Yehia Gad)

### Session 10 Tomorrow's technology (Chair: Adebawale Adeyemo)

- 1100 - 1130 **Keynote** New Sequencing Technology and Changing Horizons - David Bentley (Illumina Inc.)

### Session 11 Tomorrow's medicine (Chair: Charles Rotimi)

- 1130 - 1200 **Keynote:** Stem cell therapy for sickle cell disease: transplantation and gene therapy - Griffin Rodgers (Director, NIDDK/NIH, USA)
- 1200- 1215 Human Stem Cell: Technology, Science, and Society. Random differentiation of human embryonic stem cell derived neuroprogenitors into neuronal cells - Alice A. Aleem (Egypt)
- 1215 - 1230 Stem cells in dental practice - Tarek El-Badry (Egypt)

### **1230 – 1330 Lunch**

### Session 12 Developing an African genomic project to ensure that “Tomorrow’s medicine and technology will work for all humans”.

- 1300 – 1500 This is a major project to be spearheaded by the African Society of Human Genetics. (Open to all members of the AFSHG and invited guests). Chair Adebowlae Adeyemo (USA)

### Session 13 Towards improved global health: ethical, legal, social, and policy implications of genomic medicine in Africa Chair: Charmaine Royal (USA)

- 1500 – 1645 **Panel Members** Raj Ramesar (S. Africa); Patricia Marshall (USA); Sonia Abdelhak (Tunisia); Eman Aboul-Ezz (Egypt); Yehia Gad (Egypt)

- 1645 – 1700 Concluding Remarks - Charles Rotimi and Samia Temtamy

- 2000 – 2230 AfSHG Committees Business Dinner**