Day 1	Sunday, November 17, 2013
09:00 – 09:45	Registration
09:45 – 10:30	**Key Note Session** *Chairperson: Mahmoud Taleb Al Ali*
09:45 – 10:30	**Key Note Speech – David N. Cooper** The Molecular Basis of Reduced Penetrance in Human Inherited Disease
10:30 – 11:30	Opening Ceremony
11:30 – 12:30	**Session 1: Cancer Genomics and Epigenetics** *Chairpersons: Mouza Sharhan, Paolo Fortina*
11:30 – 12:00	Breast Cancer in Arab Populations: Molecular Characteristics and Disease Management Implications Lotfi Chouchanne
12:00 – 12:15	Role of sema3C in breast cancer progression and its effects on cancer cells proliferation, adhesion and invasion Muhammad Malik
12:15 – 12:30	A novel method to identify imprinted genes in nasopharyngeal carcinoma pathogenesis Ismail Alhwij
12:30 – 13:30	Lunch Break
13:30 – 14:30	**Session 2: Genomic and Epigenomic Studies** *Chairpersons:*
13:30 – 14:00	The Molecular Functions of Chromatin Modifiers Ahmad Al Marzouqi
14:00 – 14:30	High Throughput Genetic Studies and Advanced Functional Analyses of _Brugada Syndrome Patients Maurizio Ferrari
14:30 – 16:30	**Session 3: Genomics of Blood and Metabolic Disorders** *Chairpersons: Nabil Sulaiman, Abdul Rezzak Hamzeh*
14:30 – 15:00	Advances in Prenatal Diagnosis of Hemoglobinopathies: Focus on UAE Erol Baysal
15:00 – 15:15	Novel Missense mutation in ANKRD26 gene cause Familial Thrombocytopenia. Walid Dridi
15:15 – 15:30	Genetically influenced metabotype and human metabolic individuality Karsten Suhre
15:30 – 16:00	Coffee Break and Poster Session 1

16:00 – 16:30	Novel Aspects Regarding the Molecular Basis of Thalassemia Douglas R Higgs
16:30 – 17:30	RD-Connect Workshop NeurOmics: omics research for diagnosis and therapy in rare neuromuscular and neurodegenerative diseases – an EU-funded FP7 project Olaf Riess

Day 2	Monday, November 18, 2013
09:00 – 11:00	**Session 4: Cytogenetic Diagnosis and Molecular Profiling** *Chairpersons: Mansour Al Zarouni, and Kemal Khazanehdari*
09:00 – 09:30	Search for the Genetic Modifiers of Disease Severity in Tibial Hemimelia in a large multigenerational Arab Family: Progress and Future Directions. Mohammed Naveed
09:30 – 10:00	Population prevalence of Birth Defects and Genetic Conditions in Oman Anna Rajab
10:00 – 10:30	Coffee Break and Poster Session 2
10:30 – 10:45	A distinct clinical phenotype associated with ATP1A2 gene mutation Amal Al Hashem
10:45 – 11:00	Advantages of FISH in the Diagnosis of Cytogenetics Abnormalities Suzan Roshdi Ismail
11:30 – 12:00	A Success Story of the Centre for Arab Genomic Studies at its 10th Anniversary; the CTGA Database: Challenges and Prospects Abdul Rezzak Hamzeh
12:00 – 12:30	Industry Symposia: Changing the face of Patient Diagnostics: Affymetrix Solutions Fiona Sara Togneri
12:30 – 13:30	Lunch
13:30 – 15:30	**Session 5: Next Generation Sequencing** *Chairpersons: Andre Megarbane, George Patrinos*
13:30 – 14:00	Next-Generation Sequencing in the Clinic: Enabling Genomic Medicine Radoje Drmanac
14:00 – 14:30	Personal Genomes are Personalised Jun Wang
14:30 – 15:00	Next Generation Sequencing, Genomic Medicine and You Fahd Al Mulla
15:00 – 15:30	Comprehensive elucidation and diagnosis of intellectual disability and related disorders Hilger Ropers

15:30 – 16:00	Coffee Break and Poster Session 3
16:00 – 17:30	**Session 6: Consanguinity and Hereditary Diseases** *Chairpersons: Rabah Shawky, Sadika Al Awadi*
16:00 – 16:30	NGS Platforms and Hereditary Disorders in Highly Inbred Populations Moien Nihad Kanaan
16:30 – 16:45	Mutation in EZR inhibits the Ras/MAP pathway and causes autosomal recessive intellectual disability Rami Abou Jamra
16:45 – 17:00	Chromosomal microarray as a first-tier clinical diagnostic test for children with dysmorphology, malformations, developmental delay and idiopathic mental retardation: GCC experience Zafar Nawaz
17:00 – 17:30	Consanguineous Marriages: Past, Present and Future Trends in Counseling Hanan Hamamy

Day 3	Tuesday, November 19, 2013
09:00 – 10:30	**Session 7: Clinical Genomics** *Chairpersons: Moiz Bakheit, Moeen Al Sayed*
09:00 – 09:30	Translational Genomics and the Future of Medical Genetics in the Middle East Aida Al Aqeel
09:30 – 10:00	Neurotrophins as Therapeutic Targets for Neurodegenerative Diseases, Achilleas Gravanis
10:00 – 10:30	Aldehyde Dehydrogenases as Novel Therapeutic Targets for Metabolic Diseases and Cancer Stem Cells Vasilis Vasiliou
10:30 – 11:00	Coffee break and poster session 4
11:00 – 12:00	**Session 8A: Clinical Applications and Pharmacogenomics** *Chairpersons: Federico Innocenti, Taher Rizvi*
11:00 – 11:30	Clinical Implementation of Pharmacogenomics Ron H. van Schaik
11:30 – 12:00	Pharmacogenomics and personalized medicine in the global village George Patrinos
12:00 – 12:15	The VCORK1 Alleles Involved in the Pharmacogenetics of Warfarin Anticoagulant among Emiratis Hayat Aljeibeji
12:15 – 12:30	The rescue of cellular trafficking-defective mutants resulting in Congenital Myasthenic Syndrome and Familial Exudative Vitreoretinopathy Reham Milhem
12:30 – 13:30	Lunch

1200 – 1230	**Session 8B: Selected Abstracts** *Chairpersons: Laila Abdel Wareth, Fatma Bastaki*
12:00 – 12:15	Role of HCV core protein in expression of the human telomerase reverse transcriptase (hTERT) gene in hepatoma cell lines Hussain Abdulla
12:15 – 12:30	A novel ALMS1 splice mutation in a non-obese juvenile-onset insulin-dependent syndromic diabetic patient May Sanyoura
12:30 – 12:45	Inactivation of RIZ1 Gene by Promoter Hypermethylation is Associated with Disease Progression and Resistance to Imatinib in Indian Chronic Myelogenous Leukemia Patients, First Study from India Rashid Mir

13:30 – 16:00	**Session 9A: Selected Abstracts** *Chairpersons: Ghazi Tadmouri, Emily Niemitz*
13:30 – 13:45	Contribution of copy number variants (CNVs) in congenital unexplained intellectual and developmental disabilities in 149 patients: the first Lebanese study leading to new findings in CNVs. Andre Megarbane
13:45 – 14:00	Recurrent hydatidiform mole: detection of two novel mutations in the NLRP7 gene in two Egyptian families Ebtesam Abdalla
14:00 – 14:15	Prenatal Diagnosis of Genetic Disorders in UAE –Collaborative Experience of Dubai and Delhi Renu Saxena
14:15 – 14:30	Identification Of Genes Causing Monogenic Diabetes By Deep Sequencing Of Accessible Coding Regions Of The Human Genome Anette Gjesing
14:30 – 14:45	The Use of Whole Exome Sequencing (WES) to Unravel Disease Genes Causing Autosomal Recessive Disorders in the Population of Qatar Tawfeg Ben-Omran
14:45 – 15:00	Identification of Known and Novel Variants Associated with Paediatric Disorders using Whole Exome Sequencing and Array-CGH Arif Anwar
15:00 – 15:15	Whole-Exome Sequencing (WES) Deciphers Rare Recessive Disorders Segregating in Consanguineous Families from the United Arab Emirates (UAE) Nadia Akawi
15:30 – 16:00	Coffee break and poster session 5
16:00 – 17:30	**Session 10: Genomics in Public Health** *Chairpersons: Shaikha Al Arrayed, Larry Kricka*
16:00 – 16:30	Quantification of Genome Sharing in Consanguineous Couples with or Without Affected Child by Autosomal Recessive Disease and Impact on Genetic Counseling Habiba Chaaboun
16:30 – 16:45	Ethical issues in genomic research and limits of the informed consent Rachida Roky
16:45 – 17:30	**Keynote Speech – Angela Brand** Genomics and Public Health
17:30	Closing Ceremony

13:30 – 15:00	**Session 9B: Selected Abstracts** *Chairpersons: Makia Marafie, Fatima Al Jassmi*
13:30 – 13:45	Association of APOA5 56C>G gene polymorphism with both hypertriglyceridemia and risk of coronary artery disease (CAD) in Arterial Hypertensive Moroccan patients Sanaa Outau
13:45 – 14:00	Infantile Ascending Spastic Paralysis caused by a novel ALS2 mutation identified by Homozygosity Mapping. Salma Majid
14:00 – 14:15	Homozygous mutation in fatty acyl CoA reductase 1 FAR1 causes autosomal recessive intellectual disability with early epilepsy and constipation Rebecca Buchert
14:15 – 14:30	Mutations in the DDHD2 gene Cause a Recessive Form of Complex Hereditary Spastic Paraplegia Salma Ben Salem
14:30 – 14:45	Documentation of inherited disorders in the Moroccan population in the Moroccan National Mutation database Ilham Ratbi
14:45 – 15:00	Lessons learned from whole exome sequencing data analysis of rare diseases:non-coding variants and copy number variations Somayyeh Fahiminiya
15:00 – 15:15	New findings in a global approach to dissect the whole phenotype of PLA2G6 gene mutations Hamid Azzedine