

Scientific Program

Day 1

September 21, 2015

09:00-09:30 Registrations

Texas B



9:30-10:00

Opening Ceremony

Keynote Forum

10:00-10:10 **Introduction**

10:10-10:40 **Utilizing cancer sequencing in the clinic: Best practices in variant analysis, filtering and annotation**
Andreas Scherer, Golden Helix, USA

Coffee Break 10:40-10:55 @ Texas Foyer

10:55-11:25 **The role of genomics in gene therapy and diagnostic testing and related intellectual property issues**
Krishna Dronam Raju, Foundation for Genetic Research, USA

11:25-11:55 **Epigenesis, methylation and single strand breaks**
Rosemarie Wahl, St Mary's University, USA

Track 6: Clinical Genomics
Track 7: Micro RNA Analysis

Session Chair: Gopal B Krishnan, Promega Corporation, USA
Session Co-Chair: Peter Lajos Nagy, Columbia University, USA

Session Introduction

11:55-12:20 **Clinical significance of serum interleukin-23 and A/G gene (rs17375018) polymorphism in Behçet's disease: Relation to neuro-Behçet, uveitis and disease activity**
Tamer A Gheita, Cairo University, Egypt

12:20-12:45 **Investigation of proliferation and cytotoxicity capacity of cytokine-induced killer cells: Omics strategy**
Wenju Wang, Yan'an Hospital of Kunming City, China

Group Photo & Lunch Break 12:45-13:45 @ Texas A

13:45-14:10 **Simplified and improved RNA workflow tools to study RNA**
Gopal B Krishnan, Promega Corporation, USA

14:10-14:35 **Practical approaches for increased specificity and sensitivity of clinical next generation sequencing testing**
Peter Lajos Nagy, Columbia University, USA

14:35-15:00 **Familial hypercholesterolemia in the Middle East: What have we learned recently?**
Zuhier Awan, King Abdulaziz University, Saudi Arabia

15:00-15:25 **Over-expression of cofilin-1 suppressed growth and invasion of cancer cells is associated with up-regulation of let-7 microRNA**
Cheng-Han Tsai, National Yang-Ming University, Taiwan

Coffee Break 15:25-15:40 @ Texas Foyer

Track 1: Biomarkers & Molecular Markers

Session Chair: Patricia E Berg, George Washington University Medical Center, USA
Session Co-Chair: Igor A Sobenin, Russian Cardiology Research and Production Complex, Russia

Session Introduction	
15:40-16:05	Investigation of blood cell mitochondrial genome mutations in symptomless atherosclerosis among women Margarita A Sazonova, Russian Cardiology Research and Production Complex, Russian Federation
16:05-16:30	BP1: A potential oncogene overexpressed in cancer Patricia E Berg, George Washington University Medical Center, USA
16:30-16:55	Mitochondrial DNA variation in atherosclerosis Igor A Sobenin, Russian Cardiology Research and Production Complex, Russia
16:55-17:00	CFC1 gene mutation in tetralogy of fallot and dextro-transposition of great arteries in Pakistani population Afsheen Arif, University of Karachi, Pakistan
17:00-17:25	Procalcitonin (PCT) as a biomarker of disease severity in malaria and its associated CALC 1 -624 T/C promoter gene polymorphism Paul K Marx, Osmania University, India
17:25-17:50	Evidence of association of interleukin-23 receptor gene polymorphisms with Egyptian rheumatoid arthritis patients Gehan Hamdy, Cairo University, Egypt
Panel Discussion	

Day 2 September 22, 2015

Texas B

Keynote Forum

10:00-10:30	The application of validation and proficiency testing concepts from current clinical genetic diagnostics for the implementation of new genetic technologies Kathleen S Wilson, UT south Western Medical Center, USA
10:30-11:00	Biomimetic membranes Mariusz Grzelakowski, Applied Biomimetic Inc., USA

Coffee Break 11:00-11:15 @ Texas Foyer

Track 2: Functional Genomics
Track 5: Pharmacogenomics & Personalized Medicine

Session Chair: Luciano Brocchieri, University of Florida, USA
Session Co-Chair: John M Rosenfeld, EMD-Millipore, USA

Session Introduction

11:15-11:40	Genomics and chromatin analysis methods for profiling protein, RNA and DNA interactions in chromatin John M Rosenfeld, EMD-Millipore, USA
11:40-12:05	Discovery of novel molecular targets in SIV infected non-human primates serve as models for human HIV drug targeting Maarten Rudolph Leerkes, Medical Science & Computing Inc., USA
12:05-12:30	Rapid and reliable genotyping of HLA-B*58:01 in four Chinese populations using a single-tube duplex real-time PCR assay Huijuan Wang, Northwest University, China
12:30-12:55	Translational evidence and the accuracy of prokaryotic gene annotation Luciano Brocchieri, University of Florida, USA

Lunch Break 12:55-13:55 @ Texas A

13:55-14:20	PGMD: A comprehensive pharmacogenomic database for personalized medicine and drug discovery Alexander Kaplun, QIAGEN Bioinformatics, USA
14:20-14:45	Possible mutagenicity in Ha-Ras gene by TiO2 nanoparticles in mice Haidan Mostafa Salem, Cairo University, Egypt
14:45-15:10	The uniform-score gene set analysis of genetic pathways associated with diabetes traits Hao Mei, University of Mississippi Medical Center, USA
15:10-15:35	Enhancing natural killer cytotoxicity by miR-486-5p in hepatocellular carcinoma Rana Ahmed Youness, German University, Egypt
15:35-16:00	Common and rare variant analysis of fibrate drug response in type-2 diabetics in the ACCORD clinical trial Daniel Rotroff, North Carolina State University, USA
Coffee Break 16:00-16:15 @ Texas Foyer	
16:15-17:00	Workshop on: Understanding the effects of steroid hormone exposure on regulation of P53 and Bcl-2 gene expression Teresa S. Wiley, Wiley Compounding Systems, USA
Poster Awards	

Day 3 September 23, 2015

Texas B

Track 3: Next Generation Sequencing
Track 4: Cancer Genomics
Track 9: Bioinformatics in Genomics, Proteomics and Computational Biology
Track 14: mRNA analysis

Session Chair: Gerald J Wyckoff, University of Missouri, USA

Session Introduction

10:00-10:25	The relationship between NER and TCR in the repair of DNA adducts Aditi Nadkarni, New York University, USA
10:25-10:50	Sparse-matrix analysis of small molecules and protein targets for drug discovery Gerald J Wyckoff, University of Missouri, USA
Coffee Break 10:50-11:05 @ Texas Foyer	
11:05-11:30	Using high-throughput sequencing of the thanatomicrobiome of criminal cases Gulnaz T Javan, Alabama State University, USA
11:30-11:55	Evaluation of antitumor potential of magnetite nanoparticles on Ehrlich solid carcinoma bearing mice Heba Bassiony, Cairo University, Egypt
11:55-12:20	Co-regulation of pluripotency and enhanced genetic integrity at the genomic level Daniel J Cooper, University of Texas at San Antonio, USA
12:20-12:45	Comparison of computational models in prediction of adverse drug reactions Jumoke Soyemi, The Federal Polytechnic, Nigeria