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 vari ant 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 Behçets 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 & Personlaized 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 Compunding Systems, USA
	Poster Awards

Day 3 September 23, 2015	
Texas B	
Track 3: Next Genetaion 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

12:45-13:10	**Cytogenetic investigations in bone marrow cancers and cancer predisposing chromosomal instability syndromes**
	Binay Kumar Raut, Kathmandu University of Medical Sciences, Nepal
	Lunch Break 13:10-14:10 @ Texas A
	Closing Ceremony

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