



UNITED Scientific Group

GENEMED-2018

Exhibitor



2nd International Conference on **Genomic Medicine**

February 26-28, 2018

Venue

DoubleTree by Hilton Houston Intercontinental Airport
15747 John F. Kennedy Blvd., Houston, TX 77032 USA



*We are excited to use Whova as our event platform.
Attendees please download Whova event app.*



The event invitation code is: **genhm**

genemed@uniscigroup.org

Day 1 | February 26, 2018

07:30-08:00 Registrations

@ Prefunction Area

08:00-08:30 Inaugural Ceremony

Keynote Session

@ Monterey

08:30-09:00 Precision Medicine

C. Thomas Caskey, Baylor College of Medicine, TX, USA

09:00-09:30 Clonal Evolution of Bladder Cancer from Mucosal Field Effect

Bogdan Czerniak, The University of Texas MD Anderson Cancer Center, TX, USA

09:30-10:00 How to Maximize the Utility of Big Cancer Genomic Data?

Han Liang, The University of Texas MD Anderson Cancer Center, TX, USA

10:00-10:20 Coffee Break

@ Prefunction Area

10:20-10:50 DNA Outside the Cell : The New Biological Paradigm

Indraneel Mitra, Tata Memorial Centre, MH, India

10:50-11:20 Genomic Analyses of *Mycobacterium tuberculosis* Isolates and Identification of Drug Resistant Mutations

Wen-Hsiung Li, Biodiversity Research Center, Academia Sinica, Taiwan

11:20-11:50 Single Cell Whole Genome Amplification and the Future of Genomic Testing for Assisted Reproductive Technology

Xiaoliang Sunney Xie, Harvard University, MA, USA

Session-1 | Genetic Medicine

@ Monterey

Chairs: C. Thomas Caskey, Baylor College of Medicine, TX, USA

Aleksandar Milosavljevic, Baylor College of Medicine, TX, USA

11:50-12:10 ClinGen Allele Registry and Pathogenicity Calculator

Aleksandar Milosavljevic, Baylor College of Medicine, TX, USA

12:10-12:30 Revealing the Genetic Landscape of Antidepressant Response in Major Depressive Disorder: Results from the STAR*D Study

Yin Yao, National Institute of Mental Health, MD, USA

12:30-12:50 CYP19A1 Gene and Pharmacogenetics of Hormonal Therapies

Reina Villareal, Baylor College of Medicine, TX, USA

12:50-14:00 Lunch Break

@ Dallas & Houston

14:00-14:20 Genome Wide Alternative Splicing Dysregulation in Human Heart Diseases

N. Muge Kuyumcu-Martinez, The University of Texas Medical Branch, TX, USA

- 14:20-14:40 **Revealing Genome-scale Regulatory Landscapes Based on Temporal Gene Expression Profiles**
Hongyu Miao, University of Texas Health Science Center at Houston, TX, USA
- 14:40-15:00 **Molecular Heterogeneity of Medulloblastoma and Insights into Personalized Therapeutics**
Soumen Khatusa, The University of Texas MD Anderson Cancer Center, TX, USA
- 15:00-15:20 **Towards Personalized Structural Analysis of Peptide-HLA Complexes for T-cell-based Immunotherapy**
Dinler Antunes, Rice University, TX, USA
- 15:20-15:40 **Precision Nucleic Acid Based Molecular Diagnostics Powered by Xenonucleic Acids**
Michael J. Powell, DiaCarta Inc., CA, USA
- 15:40-16:00 **Work Induced Muscle Plasticity: An Example for a Personalised Approach to Overcome a Genetic Handicap Increasing Mortality and Reducing Quality of Life**
Martin Flück, University of Zurich, Switzerland
- 16:00-16:20 **Coffee Break** @ Prefunction Area
- 16:20-16:40 **Self-similarity from Cell City to Human Mass-societies: T-patterns, Translation Symmetry and Strings in Time and Space**
Magnus S. Magnusson, University of Iceland, Iceland
- 16:40-17:00 **Personalized Medicine and Gene Discovery in Very Early Onset Psychosis**
Catherine Brownstein, Harvard Medical School, MA, USA
- 17:00-17:20 **Functional Epigenomics of Melanoma Progression**
Kunal Raj, The University of Texas MD Anderson Cancer Center, TX, USA
- 17:20-17:40 **Heritable Thoracic Aortic Disease and Gene-specific Management**
Dongchuan Guo, The University of Texas McGovern Medical School at Houston, TX, USA
- 17:40-18:00 **Using AI-Guided Analytics in Early Stage Clinical Trials**
Greg Miller, Berg, MA, USA

18:00-18:30 **Poster Session**

@ Dallas & Houston

P - 01 Pancreatic GLP-1 Expression is Induced by Silymarin

Claudia Angelica Soto Peredo, Universidad Autónoma Metropolitana-Xochimilco, Mexico

P - 02 MicroRNA-122 Therapeutic for Stroke via Indirect Nos2 Pathway

Bo Lyu, University of California at Davis, CA, USA

P - 03 Predictors of Breast Cancer Cell Types and Their Prognostic Power in Cancer Patients

Benjamin Soibam, University of Houston-Downtown, TX, USA

Day 2 | February 27, 2018

Session-2 | Genomics

@ Monterey

- Chairs:** **Allan R. Brasier**, Institute for Translational Sciences, UTMB, TX, USA
Sudhakar Yakkanti, United Scientific Group, TX, USA
- 08:00-08:20** **Bringing Precision Medicine to the Point of Care**
Joel Diamond, 2bPrecise, PA, USA
- 08:20-08:40** ***In vivo* Inhibition of Cancer Using a New Therapeutic microRNA Inhibitor**
Brad A. Amendt, The University of Iowa, IA, USA
- 08:40-09:00** **Decoding the Dynamic Behaviors of Cancer Gene Regulatory Networks**
Mingyang Lu, The Jackson Laboratory, ME, USA
- 09:00-09:20** **Customized Genomic Profiling for Cancer Patients at PathGroup: Ensuring the Right Test for the Right Patient Every Time**
Pranil K. Chandra, PathGroup, TN, USA
- 09:20-09:40** **Mining the Cancer Genome for Insights on Non-B DNA-forming Sequences and DNA Repair Activity in Genome Integrity**
Albino Bacolla, The University of Texas MD Anderson Cancer Center, TX, USA
- 09:40-10:00** **Tumor Suppressor MicroRNA-125 Elevation or Oncogene Src Inhibition Treats Traumatic Brain Injury**
Da Zhi Liu, University of California at Davis, CA, USA
- 10:00-10:20** **Computational Methods to Integrate Omics Data For Cancer Gene Discovery**
Kaifu Chen, Houston Methodist Hospital, TX, USA
- 10:20-10:40** **Exploiting Breast Cancer Patient-Derived Xenografts (PDX) To Identify Molecular Predictors of Differential Chemotherapy Response**
Michael T. Lewis, Baylor College of Medicine, TX, USA
- 10:40-11:00** **Coffee Break** @ Prefunction Area
- 11:00-11:20** **Informatics Approaches to Identify Cancer Mutations and Genes for Drug Repurposing**
Zhongming Zhao, The University of Texas Health Science Center at Houston, TX, USA
- 11:20-11:40** **Epigenetic Regulators in Cancer**
Min Gyu Lee, The University of Texas MD Anderson Cancer Center, TX, USA
- 11:40-12:00** **Importance of Mitochondrial Dysfunction in Oxidative Stress and Cancer Development**
Motoko Shibamura, Showa University School of Pharmacy, Tokyo, Japan
- 12:00-12:20** **Prognostic Significance of TGF- β Signature in Liver Cancer**
Jian Chen, The University of Texas MD Anderson Cancer Center, TX, USA
- 12:20-12:40** **Oncolytic Adenoviruses: The Effect Beyond Oncolysis**
Hong Jiang, The University of Texas MD Anderson Cancer Center, TX, USA

- 12:40-13:00 **Identifying Multi-hit Combinations by Cancer Type as a Rational Basis for Targeted Combination Therapy**
Ramu Anandakrishnan, Edward Via College of Osteopathic Medicine, VA, USA
- 13:00-14:00 **Lunch Break** @ Dallas & Houston
- 14:00-14:20 **IMPACT: Optimization of Precision Medicine in Patients with Advanced Cancer in the Era of Immunotherapy**
Apostolia-Maria Tsimberidou, The University of Texas MD Anderson Cancer Center, TX, USA
- 14:20-14:40 **Deep Learning Analytics for Predicting Prognosis of Acute Myeloid Leukemia with Cytogenetics, Age, and Mutations**
Andy N.D. (Nghia) Nguyen, University of Texas-Houston Medical School, TX, USA
- 14:40-15:00 **Targeting Epigenetic Modifiers in Chronic Obstructive Lung Disease to Reverse Inflammation-mediated Fibrosis and Suppression of Mucosal Innate Responses**
Allan R. Brasier, The University of Texas Medical Branch, TX, USA
- 15:00-15:20 **Genomic Profiling of Solid Tumors and Cell Free DNA: Research and Clinical Aspects**
Karina Eterovic, The University of Texas MD Anderson Cancer Center, TX, USA
- 15:20-15:40 **Molecular Mechanisms Underlying Resistance to TGF- β -Induced Apoptosis**
Noritaka Yamaguchi, Chiba University, Japan
- 15:40-16:00 **Predicting Mechanisms of Therapy Resistance Based on Cancer Stem Cell Phenotypes**
Kyuson Yun, The Jackson Laboratory, ME, USA
- 16:00-16:20 **Coffee Break** @ Prefunction Area
- 16:20-16:40 **Genetic Polymorphisms and Risk of Non-Alcoholic Fatty Liver Disease**
Michael O. Baclig, St. Luke's Medical Center, Philippines
- 16:40-17:00 **Identify Disease Causing Paths**
Momiao Xiong, University of Texas School of Public Health, TX, USA
- 17:00-17:20 **Developments of DNA Sequencing Techniques for Genomic Medicine and Diagnostics**
Wilhelm J. Ansorge, Ecole Polytechnique Federale Lausanne, EPFL - ETH Lausanne, Switzerland
- 17:20-17:40 **Roles of Alternative Splicing in Complex Disease**
Yunlong Liu, Indiana University School of Medicine, IN, USA
- 17:40-18:00 **Precision Medicine: The Clinical Relevance of Patient Specific Mutations to Optimize Cancer Treatment**
Uma Shankavaram, National Cancer Institute, National Institutes of Health, MD, USA
- 18:00-18:20 **Utilizing Genomic Molecular Signature for Brain Tumor Classification and Treatment**
Gregory N. Fuller, The University of Texas MD Anderson Cancer Center, TX, USA
- 18:20-18:40 **Transcriptome Comparison of Chordoma of the Skull Base and Spine**
Diana Bell, The University of Texas MD Anderson Cancer Center, TX, US

Day 3 | February 28, 2018

Session-3 | Sequencing and Techniques

@ Monterey

- Chairs:** **Arnold Vainrub**, University of Texas Medical Branch, TX, USA
Leon Bignold, University of Adelaide, SA, Australia
- 09:00-09:20** **High-throughput DNA Analysis: State of Art and Prospects**
Arnold Vainrub, University of Texas Medical Branch, TX, USA
- 09:20-09:40** **A Pre-existing Rare PIK3CAE545K Subpopulation Confers Clinical Resistance to MEK Plus CDK4/6 Inhibition in NRAS Melanoma and is Dependent on S6K1**
Lawrence N Kwong, The University of Texas MD Anderson Cancer Center, TX, USA
- 09:40-10:00** **8-Oxoguanine DNA Glycosylase 1: Beyond Repair of the Oxidatively Modified Base Lesion 8-oxoG**
Xueqing Ba, Northeast Normal University, China
- 10:00-10:20** **Diagnosis of *M. tuberculosis* and Resistance to Drug Based on DNA Biosensors**
Hafsa Korri-Youssoufi, Institut de Chimie moléculaire et des matériaux d'Orsay, UMR- CNRS, Université Paris-Sud, France
- 10:20-10:40** **Coffee Break** @ Prefunction Area
- 10:40-11:00** **Biological and Pharmaceutical Investigation of Molecules Associated with the Risk of Coronary Artery Disease**
Kouichi Ozaki, RIKEN Center for Integrative Medical Sciences, Japan
- 11:00-11:20** **Evolutionary Genetic Relationship during 28 Years of Dengue Viruses and New Discovery of a Highly Specific Human Platelet Glycoprotein Receptor as a Key Target for Dengue Infection**
Nattapol Attatippaholkun, Mahidol University, Bangkok, Thailand
- 11:20-11:40** **Accounting for Tumor Types, Variabilities and Immortality: An Approach Based on Classical Genetics and Genomic Instabilities**
Leon Bignold, University of Adelaide, SA, Australia
- 11:40-12:00** **Analysis of the Spatiotemporal Molecular Networks for Heart Development**
Kurt Zhang, University of North Dakota, ND, USA
- 12:00-12:20** **Maximizing the Diagnostic Potential of High Throughput Sequencing Approaches for Rare Diseases**
Maja Tarailo-Graovac, University of Calgary, AB, Canada
- 12:20-12:40** **Direct Regulation of Estrogen Receptor- α Transcriptional Activity by NF1**
Eric Chang, Baylor College of Medicine, TX, USA
- 12:40-13:00** **The FDA's Office of Women's Health: Supporting Cutting-Edge Omics Research to Advance Sex and Gender-Specific Women's Health in Cardiovascular Diseases**
Michelle T Luo, The FDA Office of Women's Health, MD, USA
- 13:00-** **Lunch and Departures**



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