



UNITED

A non-profit scientific organization

Scientific
Group

3rd

International Conference on

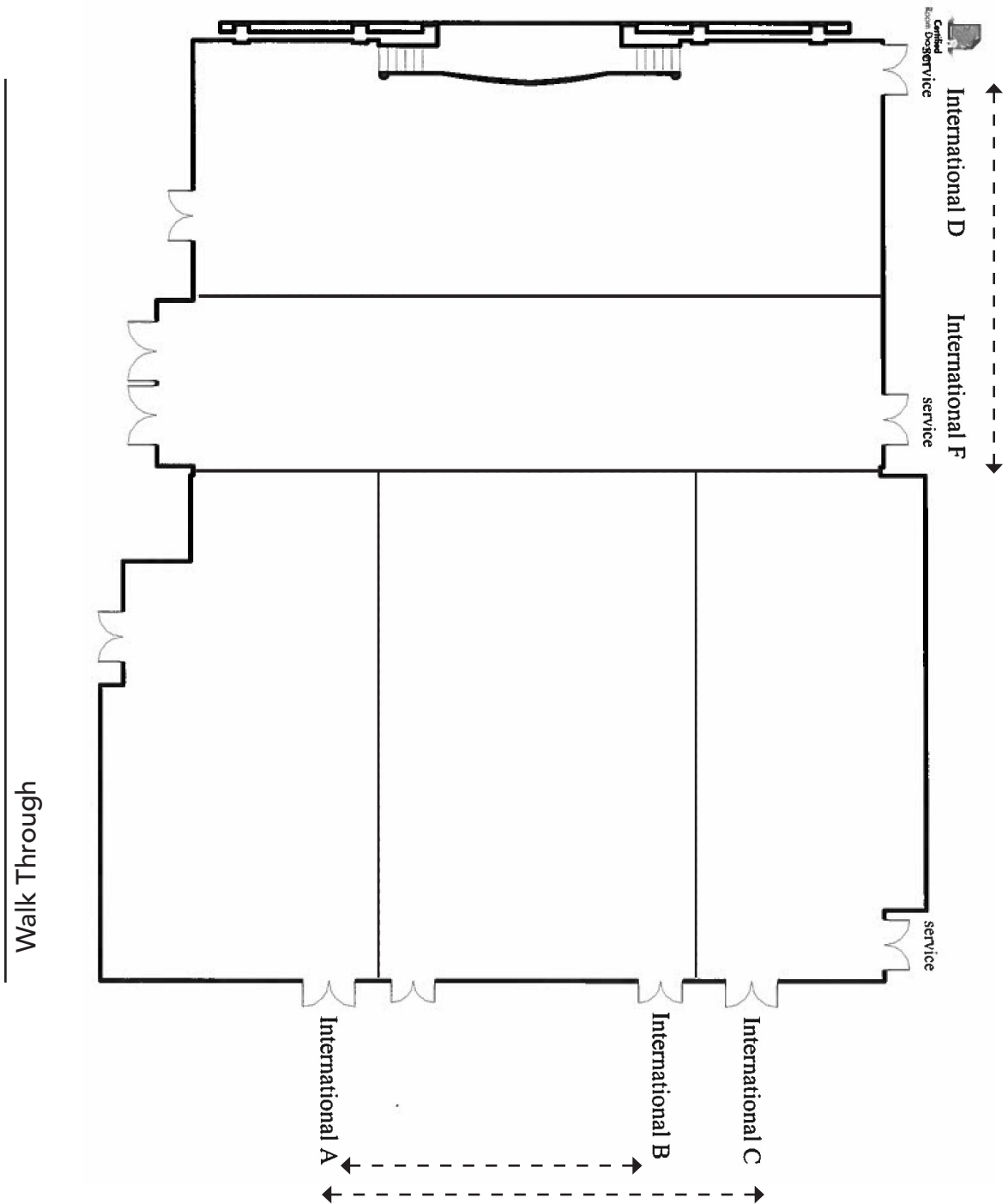
ADVANCED GENETICS

November 13-15, 2019

Venue

Radisson Hotel Baltimore Downtown-Inner Harbor
101 W Fayette St, Baltimore, MD 21201, USA

Venue Floor Plan



Wifi is complimentary and can be accessed via the Radisson_GUEST network.
You just need to accept the Terms & Conditions that pop up.

08:00-08:20 Registrations & Welcome Coffee @ Promenade
08:20-08:30 Introduction to **Advanced Genetics -2019**

Keynote Session

@ International A

- 08:30-09:00 Genome-Wide Scans of Myopia in Pennsylvania Amish Families Reveal Significant Linkage to 12q15, 8q21.3 and 5p15.33**
Joan Bailey-Wilson, NIH/NHGRI, MD
- 09:00-09:30 A Clinical Approach to Non-Small Cell Lung Carcinoma Using CRISPR-Directed Gene Editing**
Eric B. Kmiec, Gene Editing Institute, DE
- 09:30-10:00 A Molecular Approach to Estimate the Age of Forensically Relevant Body Fluid Stains Using Quantitative PCR**
Robert W. Allen, Oklahoma State University, CHS, OK
- 10:00-10:30 Global Epigenomic Regulation of Tumor Suppression in Leukemia**
Sinisa Dovat, Pennsylvania State University, College of Medicine, PA

10:30-10:50 Coffee Break

@ International B

- 10:50-11:20 A Unique Genetic Element in Gram-Positive Bacteria, tRNA-Mediated Regulation of Transcription, has been Successfully Targeted with the Discovery of Small Molecule Antibiotics**
Paul F. Agris, Duke University School of Medicine, NC
- 11:20-11:50 The Myeloproliferative Neoplasms: Acquired Genetics and a Big Surprise**
Kenneth Kaushansky, Stony Brook University, NY
- 11:50-12:20 Engineering Fetal-Like Hematopoietic Stem and Progenitor Cells**
Stefan A. Muljo, NIAID, NIH, MD

12:20 - 13:20 Lunch

@ International B

- 13:20-13:50 The Intelligent Genome: Epigenetics and the Integration of Biological Sex & Gender**
Marianne J. Legato, Columbia University, NY

Special Talk

@ International A

- 13:50-14:30 On the Futility of Killing Cancer Cells to Cure Cancer**
Indraneel Mittra, Tata Memorial Centre, India

Session-I Cancer Genetics | 3D Structure, Epigenetics @ International A

Chair: *Sinisa Dovat, Pennsylvania State University, College of Medicine, PA*

14:30-14:55 Role of Aging-Related DNA Methylation Dynamics in Shaping Tumor Development
Hariharan Easwaran, Johns Hopkins University, MD

14:55-15:20 The Origin of Ovarian Cancer Precursor Lesions
Tricia Murdock, Johns Hopkins Hospital, MD

15:20-15:45 Regulation of Cancer Stem Cells by MicroRNA
Qi-En Wang, The Ohio State University, OH

15:45-16:05 Coffee Break @ International B

16:05-16:30 MYC DNA Methylation in Prostate Tumor Tissue is Associated with Tumor Aggressiveness
Kathryn Hughes Barry, University of Maryland School of Medicine, MD

16:30-16:55 Paternal Annabinoïd Exposure Alters the Sperm Methylome
Susan K. Murphy, Duke University Medical Center, NC

16:55-17:20 Environmental Exposure Alters Histone Acetylation Codes in Disease
Zhibin Wang, Johns Hopkins University Baltimore, MD

17:20-18:20 Posters & Reception

Poster Presentations @ Promenade

P01 RIG-I Reduce Replication of a Highly Pathogenic Avian Influenza a Subtype H7N3
Alvaro R. Escalante-Sansores, Instituto Politecnico Nacional, Tlaxcala, Mexico

P02 Serotonergic Polymorphisms Associated with Placebo Effects in AUD Treatment Trials
Jessica Cornell, University of Maryland, MD

Session-II Next Generation Sequencing @ International A**Chair:** *Joan Bailey-Wilson, NIH/NHGRI, MD***08:00-08:25 Deapp+: An Interactive Tool for Differential Expression and Functional Enrichment Analysis of Gene Expression Profiles**
Yan Li, The University of Chicago, IL**08:25-08:50 Small Posterior Fossa in Chiari I Malformation Affected Families is Significantly Linked to 1Q43-44 and 12Q23-24.11 Using Whole Exome Sequencing**
Anthony Musolf, NIH/NHGRI, MD**08:50-09:15 Rapid Detection of Genetic Determinants of Resistance in *Mycobacterium tuberculosis* Isolates Using Nanopore MinION and Illumina Miseq Sequencers**
Ketema Tafess, The Hong Kong Polytechnic University, Hong Kong**09:15-09:40 Application of Machine Learning to Genomic and Proteomic Datasets: What to do When You have Deep Data, Not Big Data**
Joanna Roder, Bionodesix, Inc, CO**09:40-10:05 ATACseqQC: A Bioconductor Package for Post-Alignment Quality Assessment of ATAC-Seq**
Lihua Julie Zhu, University of Massachusetts Medical School, MA**10:05-10:25 Coffee Break @ International B****Keynote Talk @ International A****10:25-10:55 Polymicrobial Infections: Rapid, Accurate Identification and Characterization**
Rita R. Colwell, University of Maryland College Park, MD**Session-III Precision, Personalized & Translational Medicine @ International A****Chair:** *Danny N. Dhanasekaran, Stephenson Cancer Center, OUHSC, OK***10:55-11:20 Circulating SLC6A4 mRNA as Biomarkers of Heavy Drinking**
Chamindi Seneviratne, University of Maryland School of Medicine, MD**11:20-11:45 Decoding Cancer Heterogeneity: Towards Rational Design of Personalized Drug Treatments**
Nataly Kravchenko-Balasha, Hebrew University of Jerusalem, Israel**11:45-12:10 Promoter Methylation of Adamts1 And Bnc1 as Potential Biomarkers for Early Detection of Pancreatic Cancer in Blood**
Anup Sharma, Yale School of Medicine, CT**12:10-12:35 Targeting lncRNA-miRNA Nexus in Ovarian Cancer**
Danny N. Dhanasekaran, Stephenson Cancer Center, OK**12:35-13:35 Lunch @ International B**

- 13:35-14:00** **The Effect of Genetic Variations in Choline Acetyl Transferase Gene (CHAT) on Waterpipe Tobacco Smoking Dependence**
Karem Alzoubi, Jordan University of Science and Technology, Jordan
- 14:00-14:25** **DNA Methylation in Tumors: A Route to New Diagnostics and Therapies**
Laura Elnitski, National Human Genome Research Institute, MD

Session-IV **Genetics and Genetic Disorders | Genetics and Genetic Engineering**
Gene Therapy and Genetic Counselling **@ International A**

- Chair:** *David Q Wang, Albert Einstein College of Medicine, NY*
- 14:25-14:50** **CRISPRseek and GUIDEseq for the Design and Evaluation of Guide RNAs in CRISPR-Cas9 Genome-Editing Applications**
Lihua Julie Zhu, University of Massachusetts Medical School, MA
- 14:50-15:15** **Gene Therapy of Non-Alcoholic Fatty Liver Disease and Non-Alcoholic Steatohepatitis**
David Q Wang, Albert Einstein College of Medicine, NY
- 15:15-15:40** **Genetic Engineering and Genome Editing for Malaria Parasites Suppression in Mosquitoes**
Yuemei Dong, Johns Hopkins School of Public Health, MD
- 15:40-16:05** **Defects of Myelination are Common Pathophysiology in Autism Spectrum Disorder**
Brady J. Maher, Johns Hopkins School of Medicine, MD

16:05-16:25 **Coffee Break** **@ International B**

- 16:25-16:50** **Loss-of-Function Mutations in Multi-Copper Oxidase HEPHL1 Lead to Abnormal Hair Phenotype**
Prashant Sharma, NIH, MD
- 16:50-17:15** **Analysis of the CDKN2A Gene in FAMMM Syndrome Families Reveals Early Age of Onset for Additional Syndromic Cancers**
Candace Middlebrooks, National Human Genome Research Institute, MD
- 17:15-17:40** **Examining the Links Between Differential Gene Expression and Health Disparities in Baltimore City**
Douglas F. Dluzen, Morgan State University, MD
- 17:40-18:05** **Functional Analysis of the RNA Polymerase II CTD in Development Using CRISPR-Mediated Mutagenesis of Drosophila**
David Gilmour, Penn State University, PA
- 18:05-18:30** **Genetic Analysis of Cholesterol Gallstone Disease: Searching for Gallstone (Lith) Genes**
David Q Wang, Albert Einstein College of Medicine, NY
- 18:30-18:55** **Genomic DNA Methylation Changes Associated with Familial Hyperlipidemia Due to APOB R3527Q Mutation in Amish**
Huichun Xu, University of Maryland School of Medicine, MD

Session-V **Single Cell Genetics | Animal Genetics | Functional Genomics
Molecular and Cellular Biology**

@ International A

Chair: *Paul F. Agris, Duke University School of Medicine, NC*

09:00-09:25 Mechanism of Selective Degeneration of Motor Neurons in Spinal Muscular Atrophy
Laxman Gangwani, Texas Tech University Health Sciences Center, TX

09:25-09:50 SREBPs in the Control of Intestinal Homeostasis and Tumorigenesis
Luke J Engelking, The University of Texas Southwestern Medical Center, TX

09:50-10:15 The Influence of Poverty on Gene Expression in African Americans in HANDLS
Nicole S. Arnold, Morgan State University, MD

10:15-10:40 The Molecular Mechanism of dsRNA Processing by a Bacterial Dicer
Lan Jin, National Cancer Institute, NIH, MD

10:40-11:05 Adipokine-Regulated Cell-Cell Communication in Obese Endometrial Cancer
Li-Ling Lin, University of Texas Health, TX

11:05- Lunch & Departures

@ International B

We wish to see you
at
Advanced Genetics-2020



UNITED

A non-profit scientific organization

**Scientific
Group**

8105, Rasor Blvd - Suite #112, PLANO, TX 75024, USA

Ph: +1-408-426-4832/33; **Toll Free:** +1-844-395-4102; **Fax:** +1-408-426-4869

Email: genemed@uniscigroup.org; secretary@genomicconference.com

Web: <https://unitedscientificgroup.com/conferences/advanced-genetics/>