



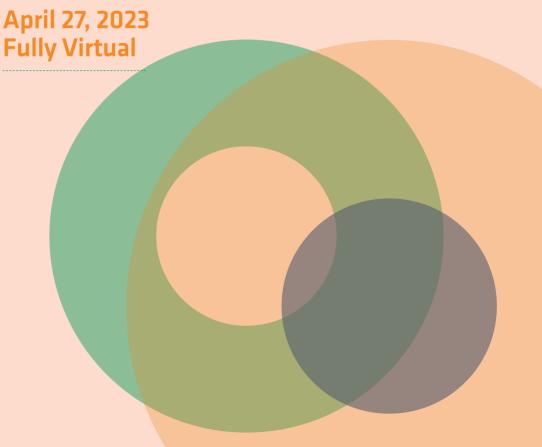
# **Program**

4th International Conference on

# Cell and Experimental Biology

April 24-26, 2023

DoubleTree by Hilton - Houston, TX & Live Stream





# **Keynote Speakers**

Day 1 | April 24, 2023

Meeting Room - Seattle I&II

Time: 08:30 - 12:00

Chairs: Lan Guan and Robert J. Schwartz

08:00 08:25 Registrations Introduction



08:30

Molecular Mechanism of Immunological Tolerance by SOCS and NR4a

**Akihiko Yoshimura, Ph.D.**, Professor, Department of Microbiology and Immunology, Keio University School of Medicine, Japan



09:00

Exploring and Exploiting the Spatial Constraints of Cell Signaling

John D. Scott, Ph.D., FRS, Edwin G. Krebs-Speights Professor of Cell Signaling & Cancer Biology, University of Washington School of Medicine, Seattle, WA



09:30

STEMIN and YAP5SA Synthetic Modified mRNA Novel Treatment for Heart Diseases

**Robert J. Schwartz, Ph.D.,** Hugh Roy and Lillian Cranz Cullen Distinguished Professor, Department of Biology & Biochemistry, University of Houston, TX



10:00

Transforming Healthcare Using Deep Data and Remote Monitoring

Michael Snyder, Ph.D., Director, Center for Genomics and Personalized Medicine, Professor of Genetics, Stanford School of Medicine, Stanford University, CA

10:30-11:00 Coffee & Connect @ Pre-function Area



11:00

Structural Basis for Barrier Mechanism and Dynamics of Co-transport

**Lan Guan, M.D., Ph.D.,** Professor, Department of Cell Physiology and Molecular Biophysics, Director, Center for Membrane Protein Research, Texas Tech University Health Science Center, Lubbock, TX



11:30

Functional Genomics and Epitranscriptomics of tRNA from Cells to Microbiomes

Tao Pan, Ph.D., Professor, Department of Biochemistry and Molecular Biology, University of Chicago, IL

# **Cell Signaling and Cancer Biology**

Chairs: Jie Xu and Anna Bianchi-Smiraglia

12:00 Endothelial-to-Osteoblast Conversion in Osteoblastic Metastasis of Prostate Cancer

**Paul Corn, M.D., Ph.D.,** Chair *ad interim*, Professor, Genitourinary Medical Oncology, UT MD Anderson Cancer Center. Houston, TX

12:20 Translesion Synthesis in Cancer Therapy and Viral Infection

Pei Zhou, Ph.D., Professor, Department of Biochemistry, Duke University School of Medicine, Durham, NC

12:40 Functional Mapping of Microbial Metabolites to Enhance Cancer Immunotherapy Efficacy

**Virginia A. Pedicord, Ph.D.,** Group Leader - Sir Henry Dale Fellow, Department of Medicine and Cambridge Institute of Therapeutic Immunology and Infectious Disease, University of Cambridge, UK

14:00 Mitochondrial Targeting to Prevent Cancer Progression

**Benny A. Kaipparettu, Ph.D.,** Associate Professor, Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX

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Time: 12:00 - 17:40

#### 14:20 Targeting Interleukin-6 to Rescue Antitumor T Cells from Becoming Pathogenic Yared Hailemichael, Ph.D., Department of Melanoma Medical Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX 14:40 Inhibiting Lung Adenocarcinoma Growth by Inducing Apoptosis Independent of BcI-2 Proteins Chi Li, Ph.D., Associate Professor, Experimental Therapeutics Group, Brown Cancer Center, Department of Medicine, University of Louisville, KY 15:00 Deciphering Therapeutic Targets in Gynecologic Malignancy Yunfei Wen, Ph.D., Assistant Professor, Departments of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 15:20 Role of T Follicular Helper Cells in Anti-tumor Immunity Roza Nurieva, Ph.D., Associate Professor, The University of Texas MD Anderson Cancer Center, Houston, TX 15:40 Therapeutic Targets in Preclinical Urological Models Niki Zacharias Millward, Ph.D., Assistant Professor, Dept. of Urology, University of Texas MD Anderson Cancer Center, Houston, TX 16:00-16:20 Coffee Break @ Pre-function Area SEQing New Functions for AhR in MYCN-amplified Neuroblastoma 16:20 Anna Bianchi-Smiraglia, Ph.D., Assistant Professor of Oncology, Department of Cell Stress Biology, Roswell Park Comprehensive Cancer Center, Buffalo, NY 16.40 **USP22** Regulates Signaling Cascades in Development and Disease Evangelia Koutelou, Ph.D., Assistant Professor, Department of Epigenetics and Molecular Carcinogenesis, The University of Texas MD Anderson Cancer Center, Houston, TX

Center, Houston, TX 17:20 Syntaphilin Regulates Mitochondrial Dynamics and Tumor Cell Invasion

lie Xu, Ph.D., Associate Professor, Department of Hematopathology, The University of Texas MD Anderson Cancer

M. Cecilia Caino, Ph.D., Assistant Professor, Department of Pharmacology, University of Colorado Denver, Aurora, CO

Patients with Systemic Anaplastic Large Cell Lymphoma: Potential Candidates for PD-1 Blockade

17:00

Immunotherapy

Institute. Brazil

CFR23-P6

#### Poster Presentations (17:40-19:00) @ Dallas & Houston

| CEB23-P1 | Proteomic Profiling of Fatty Acid Amide Binding Proteins in <i>Drosophila melanogaster</i> Suzeeta Bhandari, Department of Chemistry, University of South Florida, Tampa, FL  |  |  |  |  |
|----------|---|--|--|--|--|
| CEB23-P2 | Network Enhanced Similarity Search Increases the Predictive Power of a Highly Heterogenous Network Everest Castaneda, Baylor University, Waco, TX   |  |  |  |  |
| CEB23-P3 | The Effect of CerS6 on Melanoma Cells B16F10 and BP Cells Guanshu Liu, The University of Texas MD Anderson Cancer Center, Houston, TX   |  |  |  |  |
| CEB23-P4 | Time-dependent Activation of Molecular Signatures is Associated with Trimethylamine-N-oxide Induced Endothelial Dysfunction in Human Microvascular Endothelial Cells  Meyammai Shanmugham, Science, Math & Technology, Singapore University of Technology & Design, Singapore |  |  |  |  |
| CEB23-P5 | Natterin-like Depletion by CRISPR/Cas9 Impairs Zebrafish (Danio rerio) Embryonic Development  |  |  |  |  |

Evaluating the Toxicological Impacts of Nanoparticles Extracted from Sunscreens Using Human Keratinocytes Darien Kwek, School of Materials Science and Engineering, Nanyang Technological University, Singapore

Carla Lima da Silva, Immunoregulation Unit of the Laboratory of Applied Toxinology (CeTICs/FAPESP), Butantan

Day-1, April 24 CEB-2023 Program

| End of Day 1   |   |  |  |  |
|--|---|--|--|--|
|  | Networking & Reception (18:00-19:00) @ Dallas & Houston   |  |  |  |
| CEB23-P13 Circulating Exosomal MicroRNAome from Newly Identified Essential Hypertensive Adults Paulina Tan, Postgraduate Candidate, University of Nottingham, Malaysia |   |  |  |  |
| CEB23-P12  | Cytotoxic and Apoptotic Effects of Vardhamana Pippali Rasayana (VPR) in Human Breast Cancer Cells<br>Richa Tripathi, Ph.D., All India Institute of Ayurveda; ICMR-NICPR, India  |  |  |  |
| CEB23-P11  | Effects of Water from Greater Houston Watersheds on Colorectal Adenocarcinoma Cell (HT-29) Viability: Time-<br>dependent Toxicity and Insensitivity to Tyrphostin Treatment<br>Sekinat O. Atobiloye, Texas Southern University, Houston, TX |  |  |  |
| CEB23-P10  | The Effects of Dictyostelium PP2A/B56 and Superoxide Dismutase C (SodC) on the Ingestion and the Killing of Live Bacteria Klebsiella aerogenes Victor Osorio-Castillo, Florida International University, Miami, FL                          |  |  |  |
| CEB23-P9   | The Role of MKP-2 in Cellular Senescence and Metabolic Function  Morgan Welch, Department of Biological Sciences, University of Alabama in Huntsville, AL   |  |  |  |
| CEB23-P8   | Impact of MKP-2 Deficiency on Bleeding Times and Protein Expression in Platelets Cassandra Secunda, Department of Biological Sciences, University of Alabama in Huntsville, AL  |  |  |  |
| CEB23-P7   | Role of DUF647 Containing Proteins in Vitamin B6 Homoeostasis  Melissa Hassmer, San Francisco State University, CA  |  |  |  |

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## **Cell Signaling and Cancer Biology**

Day 2 | April 25, 2023

Meeting Room - Seattle I&II

Chair: Anna Bianchi-Smiraglia Time: 08:15 - 09:55 08:15 Vimentin Regulates Colorectal Cancer Progression by Interaction with Myosin 10 Zofia Ostrowska-Podhorodecka\*, Ph.D., Postdoctoral Fellow, Department of Dentistry, University of Toronto, Canada 08:30 Identification of a CD4<sup>+</sup> T Cell Line with Treg-like Activity Kirsten Pfeffer\*, School of Life Sciences, Arizona State University, Scottsdale, AZ Mechanistic Insight on how 1,4-dihydropyridines Induce T $\beta$ RII Degradation **NR-45** Stephanie Wojtowicz\*, Department of Physiology and Pharmacology, Schulich Medicine and Dentistry, Canada All Trans Retinoic Acid Modulates the Retinoic Acid Receptor Signaling Pathway in Merkel Cell Carcinoma Cells 08:55 John Charles Rotondo\*, Ph.D., Department of Medical Sciences, University of Ferrara, Italy **Elucidation of Necroptosis Pathway Using Optogenetics** 09:10 Teak-Jung Oh\*, School of Molecular & Cellular Biology, University of Illinois at Urbana-Champaign, IL 09:25 Dysregulated Cellular Dynamics in Insulin Resistance Alessandra Dall'Agnese\*, Ph.D., Postdoctoral Fellow, Whitehead Institute, Cambridge, MA 09:40 Transcriptome Changes in Cervical Cancer Cells Due to Small Interfering RNA Induced Inhibition of Notch-3: the **Enigma Unravelled** 

# **Keynote Speaker**



#### 09:55

From Single-cell Biology to Cell-centric Drug Discovery

Richa Tripathi, Ph.D., All India Institute of Ayurveda; ICMR-NICPR, India

**Virginia Savova, Ph.D.,** Global Head of Single-Cell Biology, Precision Medicine & Computational Biology (PMCB), SANOFI, Cambridge, MA

10:25-10:40 Coffee & Connect @ Pre-function Area

# **Biochemistry and Molecular Biology**

Chairs: Rachel K. Miller (10:40 - 13:00) Sanja Sever (13:40 - 16.00) Yan Chun (16:00 - 17.45) Time: 10:40 - 17:45

Time: 09:55 - 10:25

10:40 Structure Study of Platelet, from Molecular to Cell

**Zhao Wang, Ph.D.,** Assistant Professor, Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston. TX

- 11:00 The Balance Between Gasdermin D and Sting Signaling Shapes the Severity of Schistosome Immunopathology Parisa Kalantari, Ph.D., Assistant Professor, Department of Veterinary and Biomedical Sciences, Pennsylvania State University, PA
- 11:20 Characterizing the Destructive Exosome Signature Prompted by Conventional Smoking
  Matthew C. Madison, Ph.D., Assistant Professor, School of Health Professions, Clinical and Diagnostic Sciences,
  The University of Alabama at Birmingham, AL
- 11:40 Crosstalk Between Regulatory T Cell and Hair Follicle Stem Cell is Dependent on Glucocorticoid Signaling
  Ye Zheng, Ph.D., Associate Professor, Nomis Center for Immunology & Microbial Pathogenesis, Salk Institute for
  Biological Studies, La Jolla, CA

Day-2, April 25 CEB-2023 Program

#### 12:00 Mechanisms Driving Cell-cell Adhesion During Nephric Tubulogenesis

Rachel K. Miller, Ph.D., Associate Professor, Pediatric Research Center, Department of Pediatrics, McGovern Medical School, UT Health, Houston, TX

# 12:20 Structural Basis of DNA Polymerase Catalyzed DNA Synthesis, Error Incorporation, and Double-strand Break

Yang Gao, Ph.D., Assistant Professor, Department of BioSciences, Rice University, Houston, TX

#### 12:40 The ANT Family and the Mitochondrial Permeability Transition Pore

**Jason Karch, Ph.D.**, Assistant Professor, Department of Integrative Physiology, Baylor College of Medicine, Houston, TX

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#### 13:40 Molecular Basis of NAADP-evoked Endolysosomal Calcium Signaling

**Xin Guan, Ph.D.,** Research Investigator, Department of Anesthesiology & Perioperative Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX

#### 14:00 RNA-binding Protein and Precursor mRNA Decay in Inflammation

**Je-Hyun Yoon, Ph.D.,** Associate Professor, Department of Biochemistry and Molecular Biology, Medical University of South Carolina, Charleston, SC

#### 14:20 Imaging RNA in and Purifying RNA-protein Complexes from Living Cells

Peter Unrau, Ph.D., Professor, Department of Molecular Biology and Biochemistry, Simon Fraser University, Canada

#### 14:40 Utilization of tRNA as a Cofactor Beyond Ribosomal Translation

Yi Zhang, Ph.D., Assistant Professor, Department of Biochemistry, School of Medicine, Case Western Reserve University, Cleveland, OH

#### 15:00 Functional Variants in LMNA and DSP are Revealed by the Qatar Genome Programme

**Borbala Mifsud, Ph.D.,** Assistant Professor, Division of Genomics and Translational Biomedicine, College of Health and Life Sciences, Hamad Bin Khalifa University, Qatar

#### 15:20 Epitranscriptomic Regulation of Gut Epithelial Homeostasis

Yan Chun Li, Ph.D., Associate Professor, Department of Medicine, The University of Chicago, IL

#### 15:40 Using 3D Single-molecule Fluorescence Microscopy to Map Cellular Function

**Anna-Karin Gustavsson, Ph.D.,** Assistant Professor and CPRIT Scholar in Cancer Research, Department of Chemistry, Rice University, Houston, TX

# 16:00 Applying Information about miRNAs from Developmental Biology to Treat Diseases: miRNA106a can Reverse Cardiomyocyte Hypertrophy by Targeting Genes Known to Cause Heart Failure

**G. Ian Gallicano, Ph.D.,** Associate Professor, Department of Biochemistry and Molecular Biology, Georgetown University Medical Center, Washington, DC

# 16:20 Decoding Single-cell Transcriptomic Phenotypes from the Cell Images Enabled by Robotic Data Acquisition and Deep Learning

Katsuyuki Shiroguchi, Ph.D., Team Leader, RIKEN Center for Biosystems Dynamics Research (BDR), Japan

# 16:40 Simultaneous Stabilization of Actin Cytoskeleton in Multiple Nephron-specific Cells Protects Kidney from Diverse Injury

Sanja Sever, Ph.D., Associate Professor, Harvard Medical School Nephrology Division, Massachusetts General Hospital, Charlestown, MA

#### 17:00 Common Signaling Principles and Interconnectivity Between the ISR-UPR Networks

Francesca Zappa\*, Ph.D., Altos Labs Bay Area Institute of Science, Altos Labs, Inc., Redwood City, CA

#### 17:15 The Ubiquitin-proteasome System Assures Glomerular Filtration Barrier Integrity

**Wiebke Sachs\***, **Ph.D.**, Institute of Cellular and Integrative Physiology, University Medical Center Hamburg-Eppendorf, Germany

#### 17:30 Role of HSF-1 and Insulin/IGF-1 Signaling to Regulate the Proteostasis During Female Reproduction

**Muhammad Tahir\*, Ph.D.,** Postdoctoral Fellow, Department of Cell Biology and Anatomy, New York Medical College, NY

CEB-2023 Program 6 Day-2, April 25

| <b>Cellular and Molecular Neurobiol</b> |
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**Break-out Session** 

Chair: Xiaowen Bai Meeting Room - Arizona Ballroom Time: 13:40 - 16:10

- 13:40 TRIP12 Ubiquitination of Glucocerebrosidase Contributes to Neurodegeneration in Parkinson's Disease
  Han Seok Ko, Ph.D., Professor, Department of Neurology, Institute for Cell Engineering, Johns Hopkins University,
  School of Medicine, Baltimore, MD
- 14:00 Roles of TMEM175 in Lysosomal pH Homeostasis and Parkinson's Diseases
  Tianmin Fu, Ph.D., Assistant Professor, Department of Biological Chemistry and Pharmacology, The Ohio State
  University, Columbus, OH
- Diurnal Variation as an Endogenous Neuroprotection Mechanism in a Rat Model of TBI
   Ricardo J. Martinez-Tapia, M.D., Ph.D., Research Coordinator, Department of Physiology, Facultad de Medicina,
   Universidad Nacional Autonoma de Mexico, Mexico
- 14:40 Dysregulation of Glial-mediated Purinergic Signalling Leads to Atypical Neuronal Development in the Brain Angela Scott, Ph.D., Assistant Professor, Department of Molecular and Cellular Biology, University of Guelph, Canada
- 15:00 Neuroprotective Roles of IncRNAs in Developmental Brain Injury
  Xiaowen Bai, Ph.D., Associate Professor, Medical College of Wisconsin, Department of Cell Biology, Neurobiology & Anatomy, Milwaukee, WI
- 15:20 Is the Type II TGFβ Receptor the Achilles' Heel of TGFβ Signaling?
  John Di Guglielmo, Ph.D., Associate Professor, Department of Physiology and Pharmacology, Schulich Medicine and Dentistry, Western University, Canada
- 15:40 Impacts of Microglial IRF4 and IRF5 on Ischemic Stroke

  Conelius Ngwa\*, Ph.D., Postdoctoral Research Fellow, Department of Neurology, The University of Texas Health
  Science Center at Houston, TX
- 15:55 An Axonal Signal for Dendritic Maturation: Role of Neuregulin1 Nuclear Signaling in Assembly of Hippocampal Circuits
  Prithviraj Rajebhosale\*, Ph.D., Postdoctoral Visiting Fellow, Section on Genetics of Neuronal Signaling, NINDS, National Institutes of Health. Bethesda. MD

# **Experimental Biology and Disease Physiology**

Chair: Pascaline Fru Time: 16:10 - 17:30

- 16:10 The Pathophysiology of Cobalamin (Vitamin B12) Deficiency Syndromes Impacting Development Ross A. Poche, Ph.D., Associate Professor, Department of Integrative Physiology, Baylor College of Medicine, Houston, TX
- Clinically Validated Expression Profiling Strongly Suggests Loss of Structural Integrity and Failing Regenerative Repair as Important Driving Forces for the Multidimensional Progression of Chronic Obstructive Pulmonary Disease

  Polf Ziersho, M.D., Professor of Dulmonary and Integral Modical University of Vienna, CEO and Founder

**Rolf Ziesche, M.D.,** Professor of Pulmonary and Internal Medicine, Medical University of Vienna; CEO and Founder, Transgenion Ltd., Austria

16:50 Early Immune Responses in Acute Pancreatitis and their Role in Predicting Disease Severity in a South African Cohort

**Pascaline Fru, Ph.D.,** Associate Professor, Department of Surgery, School of Clinical Medicine, Faculty of Health Sciences, University of the Witwatersrand, South Africa

17:10 The Molecular Pathogenesis of Diabetic Cardiomyopathy

Jessica Pfleger, Ph.D., Assistant Professor, Fralin Biomedical Research Institute, Virginia Tech Carilion, Roanoke, VA

End of Day 2

Day-2, April 25 CEB-2023 Program

# **Cell and Developmental Biology**

Day 3 | April 26, 2023

Meeting Room - Seattle I&II Time: 08:25 - 10:00 Chair: Yao-Hua Song 08:25 Hsa-microRNA-1249-3p/Homeobox A13 Axis Modulates the Human Epithelial Cell Clonogenicity Chiara Mazziotta\*, Ph.D., Department of Medical Sciences, University of Ferrara, Italy 08:40 Uncovering New Functions of RNA Modifications in mRNA Processing Nicole M. Martinez, Ph.D., Assistant Professor, Department of Chemical and Systems Biology, Department of Developmental Biology, Stanford University, Stanford, CA 09:00 Local Activation of Focal Adhesion Kinase Orchestrates the Positioning of Presynaptic Scaffold Proteins and Ca<sup>2+</sup> Signaling to Control Glucose Dependent Insulin Secretion Peter Thorn, Ph.D., Professor, Chair of Molecular and Cellular Physiology, School of Medical Sciences, University of Sydney, Australia 09:20 The Circadian Regulation of Muscle Repair Yao-Hua Song, Ph.D., Professor, Cyrus Tang Hematology Center, Soochow University, China

Coffee & Connect

Fernanda Mesquita, Ph.D., Research Scientist, Regenerative Medicine Research, The Texas Heart Institute,

@ Pre-function Area

Strategies to Improve Cardiac Maturation of hiPSC-derived Cardiomyocytes

## **Cell and Gene Therapy**

Houston, TX

09:40

11:20

Time: 10:20 - 11:40 Chair: Qi Cai

10:20 Skeletal Stem Cell Heterogeneity and Regulation in Bone Regeneration and Repair Dongsu Park, Ph.D., Assistant Professor, Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX

Incorporate Innovations into the Next Generation Autologous Cell Therapy 10:40 Qi Cai, Ph.D., Director, Cell Biology, Research, Kite Pharma, Santa Monica, CA

10:00-10:20

11:00 Three is a Magic Number: TAVO412 - A Novel Trispecific cMet x EGFR x VEGF Antibody for Difficult-to-treat Cancers

Mark Chiu, Ph.D., CSO, Tavotek Biotherapeutics, Lower Gwynedd, PA

Clinical and Preclinical Study Moonsoo M. Jin, Ph.D., Professor of Biomedical Engineering in Radiology & Surgery, Director, Molecular Imaging

Innovations Institute (MI3), Department of Radiology, Weill Cornell Medicine, New York, NY

SSTR2 as an Anatomical Imaging Marker and a Safety Switch to Monitor and Manage CAR T Cell Toxicity:

# **Physiology and Pharmacology**

Chair: Peter Thorn Time: 11:40 - 12:50

11:40 Coincident Detection and Encoding of GPCR Signals by TRPC4 and GIRK Channels in Signaling Processing Neurons Jinbin Tian, Ph.D., Research Assistant Professor, Department of Integrative Biology & Pharmacology, MacGovern Medical School, The University of Texas Health Science Center at Houston, TX

12:00 Machine Learning for Single-cell and Spatial Data

Md. Abul Hassan Samee, Ph.D., Assistant Professor, Department of Integrative Physiology, Baylor College of Medicine, Houston, TX

12:20 Photobiomodulation at 660 nm and Its Effect on Inflammation and Apoptosis in Wounded Diabetic Fibroblast Models

> Asma Shaikh-Kader\*, Ph.D., Lecturer, Department of Human Anatomy and Physiology, Faculty of Health Sciences, Laser Research Center, University of Johannesburg, South Africa

12:35 Ethnopharmacological Assessment of Medicinal Plant Extract in Ameliorating Cardiotoxicity and Nephrotoxicity in Experimental Animals

Amirah Yusuf\*, Department of Environmental & Interdisciplinary Sciences, Texas Southern University, Houston, TX

12:50-13:50 Lunch & In-person Departures @ Dallas & Houston

CEB-2023 Program

| Chair: S | ang W. Park Virtual   Time: 13:50 - 19:15  |  |  |
|----------|--|--|--|
| 13:50    | Protein Phosphatase 2A, a Druggable Tumor Suppressor for Cancer Therapy Jukka Westermarck, Ph.D., Professor, Turku Bioscience Centre, University of Turku, Finland   |  |  |
| 14:10    | Targeting CFTR Post-translational Modifications for Cystic Fibrosis Therapy Christian Borgo, Ph.D., Assistant Professor, Department of Biomedical Sciences, University of Padova, Italy  |  |  |
| 14:30    | CFTR Correctors from Cystic Fibrosis to Muscular Dystrophy Dorianna Sandona, Ph.D., Associate Professor, Department of Biomedical Sciences, University of Padova, Italy  |  |  |
| 14:50    | Targeting the Gut Microbiota-endocannabinoid System Crosstalk to Treat Rare and Untreatable Skeletal Muscle Disorders  Fabio A. Iannotti, Ph.D., Associate Professor, Institute of Biomolecular Chemistry, National Research Council, Italy  |  |  |
| 15:10    | Arbovirus Morphogenesis and Pathogenesis: What does Transmission Electron Microscopy Teach Us?  Gabriela Cardoso Caldas*, Laboratory of Viral Morphology and Morphogenesis, Laboratory of Pathology - Oswaldo Cruz Institute, Brazil   |  |  |
| 15:25    | The Role of BRD7 in the Alternative Insulin Signaling Pathway  Sang W. Park, Ph.D., Assistant Professor of Pediatrics, Harvard Medical School/Boston Children's Hospital, MA   |  |  |
| 15:45    | Nutrient Sensing and Hormonal Control of Metabolism Katrin J. Svensson, Ph.D., Assistant Professor, Department of Pathology, Stanford University, Palo Alto, CA  |  |  |
|          | 16:05-16:20 Break  |  |  |
| 16:20    | Extracellular Vesicles and Particles: Systemic Mediators of Metastasis Irina Matei, Ph.D., Weill Cornell Medicine, Department of Pediatrics, Drukier Institute for Children's Health and Meyer Cancer Center, New York, NY   |  |  |
| 16:40    | Quantitative Assays for the Detection of Antibody Transcytosis Across the Blood-brain Barrier <i>In Vitro</i> Anna Jezierski, Ph.D., Research Officer, Human Health Therapeutics Research Centre, National Research Council of Canada  |  |  |
| 17:00    | Dynamic Regulation of Cap-independent Translation upon Pathogen Infection Jinlong Wang*, Ph.D., Postdoctoral Fellow, Department of Biology, Duke University, Durham, NC  |  |  |
| 17:15    | Armed Oncolytic Viruses Activate Tumor-reactive Cytotoxic T Cells by Converting Tumors to Artificial Antigen-<br>presenting Cells <i>In Situ</i> Hongkai Zhang, Ph.D., Professor, Department of Biochemistry and Molecular Biology, College of Life Science,<br>Nankai University, China |  |  |
| 17:35    | Deciphering Transcription Factor Binding Dynamics for an Endogenous Gene Locus in a Single Cell Heng Xu, Ph.D., Associate Professor, Institute of Natural Sciences & School of Physics and Astronomy, Shanghai Jiao Tong University, China   |  |  |
| 17:55    | High-density Lipoprotein Regulates Angiogenesis by Affecting Autophagy via MiRNA-181a-5p Jing-Song Ou, M.D., Ph.D., Professor and Director of Cardiovascular Diseases Institute, The First Affiliated Hospital, Sun Yat-sen University, China  |  |  |
| 18:15    | <b>Lipotoxicity and Human Islets Jenny Gunton, Ph.D.,</b> Professor, Chair of Medicine, University of Sydney, Westmead Hospital, Australia   |  |  |
| 18:35    | Alternative Mammalian Strategies Leading Toward Gastrulation: Losing Polar Trophoblast or Gaining an Epiblast Cavity Peter Pfeffer, Ph.D., Associate Professor, School of Biological Science, Victoria Univ. of Wellington, New Zealand  |  |  |
| 18:55    | Poster: Navitoclax Suppresses IL-3 Induced Human Umbilical Vein Endothelial Cells Migration and Angiogenesis Through PI3-AKT Pathway Nur Syahidah Nor Hisam, Postgraduate Candidate, The National University of Malaysia, Malaysia   |  |  |
| 19:05    | Poster: In Silico Study of Benzothiazole Guanidino Derivates as Possible Inhibitors of AChE, BACE1 Activity and Amyloid Peptide Aggregation Ana Paola Anaya Garcia, Laboratorio de Biofísica y biocatálisis, Instituto Politécnico Nacional, Mexico                                      |  |  |

Day 3 | April 26, 2023

Biochemistry and Molecular Biology

Day-3, April 26-Virtual CEB-2023 Program

End of Day 3

# **Experimental Biology and Disease Physiology**

Day 4 | April 27, 2023

Chair: Supriya Sharma Virtual Time: 06:00 - 07:20

06:00 Selection Pressure Behind the Pfhrp2/3 Deletions and Drug Resistance in Antimalarial: Are They Correlated Supriya Sharma, Ph.D., Research Associate, ICMR-National Institute of Malaria Research, India

06:20 Using Model Organisms to Approach Heart Regeneration

**Jing-Wei Xiong, Ph.D.,** Professor, Institute of Molecular Medicine, College of Future Technology, Peking University, China

06:40 Bioengineered Airway Grafts: Implications for Tracheal Transplantation

**Golnaz Karoubi, Ph.D.,** Assistant Professor, University of Toronto; Assistant Scientist, University Health Network, Toronto, ON

07:00 PD-L1 Exerts Cell-intrinsic Functions in Thyroid Cells: New Mechanisms for Thyroiditis Triggered by Immune Checkpoint Inhibitors

Mihaela Stefan-Lifshitz, Ph.D., Associate Professor, Division of Endocrinology & Diabetes, The Fleischer Institute for Diabetes and Metabolism, Albert Einstein College of Medicine, New York, NY

# **Cell and Developmental Biology**

Time: 07:20 - 08:55

07:20 Leaf Masguerade Mimicry in Oakleaf Butterflies

Wei Zhang, Ph.D., Assistant Professor, School of Life Sciences, Peking University, China

07:40 An Immunomodulatory Polypeptide Hydrogel for Osteochondral Defect Repair

**Jia-Kuo Yu, Ph.D.,** Professor, Department of Sports Medicine, Beijing Key Laboratory of Sports Injuries, Peking University Third Hospital, China

08:00 Roadmap to Uterine Receptivity-regulation from the Estrogen and Progesterone Signal

**Shuangbo Kong, Ph.D.,** Associate Professor, Department of Obstetrics and Gynecology, School of Medicine, Xiamen University, China

08:20 Bone Marrow-derived Nestin-GFP\* Progenitor Cells Persist in Immunologically Complete Recipients Immunized Against GFP

**Dmitriy Karpenko\***, Laboratory of Epigenetic Regulation of Hematopoiesis, National Medical Research Center for Hematology, Russia

08:35 Rad1-depedent and Independent Role of the Rad9-rad1-hus1 Complex in Drosophila Meiosis

Uri Abdu, Ph.D., Associate Professor, Department of Life Sciences, Ben Gurion University of the Negev, Israel

08:55-09:05 Break

# **Cell Signaling and Cancer Biology**

Chair: Sebastian Oltean Time: 09:05 - 12:10

09:05 Homophilic ATP1A1 Binding Induces Activin A Secretion to Promote EMT of Tumor Cells and Myofibroblast Activation

Yi-Ing Chen\*, D.V.M., Ph.D., Postdoctoral Fellow, Genomics Research Center, Academia Sinica, Taipei, Taiwan

09:20 A Plant Immune Protein Enables Broad Antitumor Response by Rescuing Microrna Deficiency

Peng Du, Ph.D., Assistant Professor, School of Life Sciences, Peking University, China

09:40 Multi-targeting of Lung Cancer Signaling Networks

Uwe Rix, Ph.D., Associate Member, Department of Drug Discovery, Moffitt Cancer Center, Tampa, FL

10:00 Role of Anoctamin 7 in Prostate Cancer

**Johanna Schleutker, Ph.D.,** Professor of Medical Genetics, Dept. of Genomics, Turku University Hospital; Institute of Biomedicine and FICAN West Cancer Center, University of Turku, Finland

|           | Poster Presentations   | Time: 14:40 - 15:10   |  |  |
|-----------|--|---|--|--|
|           | Eleni Petsalaki*, Ph.D., Biology Department, University of Crete, Greece  14:25-14:40 Break  |   |  |  |
| 14:10     | A Novel Signaling Pathway Delays Abscission to Prevent Chromatin Breakage  |   |  |  |
| 13:50     | QDs' Trafficking and Its Impact on Yeast Polarization and Actin Filament  Kyoungtae Kim, Ph.D., Department of Biology, Missouri State University, Springfield, MO  |   |  |  |
| 13:30     | Activation of Oncogenic Akt by CaMKK2  Arthur M. Edelman, Ph.D., Associate Professor, Department of Pharmacology & Toxicology, Jacobs School of Medicine and Biomedical Sciences, Buffalo, NY  |   |  |  |
| 13:10     | mRNA Therapy to Alleviate Acute and Chronic Murine Liver Diseases  Valerie Gouon-Evans, Ph.D., Associate Professor, Department of Medicine, Boston University School of Medicine and Boston Medical Center, Boston, MA   |   |  |  |
| 12:50     | Huntington's Disease is a Matter of Recycling  Xueyi Li, Ph.D., Assistant Professor, Department of Neurology, Massachusetts General Hospital and Harvard  Medical School, Charlestown, MA  |   |  |  |
| 12:30     | Neuronal GPCR NMUR-1 Regulates Distinct Immune Responses to Different Pathogens Jingru Sun, Ph.D., Associate Professor, Department of Translational Medicine and Physiology, Washington State University, Spokane, WA  |   |  |  |
| 12:10     | The Longevity Response to Warm Temperature is Neurally Controlled via the Regulation of Collagen Genes Yiyong (Ben) Liu, Ph.D., Assistant Professor, Department of Translational Medicine & Physiology, Washington State University, Spokane, WA                             |   |  |  |
| Chair: Yi | ong (Ben) Liu  | Time: 12:10 - 14:25   |  |  |
|           | ar and Molecular Neurobiology; Cell and Gene Therapology and Pharmacology  | py  |  |  |
| 11:55     | Bromodomain Inhibition of EP300/CBP as a Therapeutic Strategy to Target MYC in Group 3 Medulloblastoma Noha Shendy*, Ph.D., Postdoctoral Research Associate, Department of Oncology, St. Jude Children's Research Hospital, Memphis, TN                                      |   |  |  |
| 11:40     | Molecular and Biochemical Characterization of the Most Prevalent Missense Mutations Causing Slc13a5 Epilepse Valeria Jaramillo-Martinez*, Department of Pharmacology and Neuroscience, Texas Tech University Health Science Center, Lubbock, TX                              |   |  |  |
| 11:20     | <b>Crizotinib Improves the Therapeutic Efficacy of PARP Inhibitors in Ovarian Ca Janice Santiago-O'Farrill, Ph.D.,</b> Instructor, Department of Experimental Therap MD Anderson Cancer Center, Houston, TX  | go-O'Farrill, Ph.D., Instructor, Department of Experimental Therapeutics, Division of Cancer Medicine |  |  |
| 11:00     | Melanoma Differentiation Associated Gene-9/Syndecan Binding Protein (MDA-9/SDCBP) Promotes Hepatocellular Carcinoma (HCC) Devanand Sarkar, Ph.D., Professor, Human and Molecular Genetics, Virginia Commonwealth University, Richmond, VA                                    |   |  |  |
| 10:40     | <b>Genetic Interactions in Lymphoma Evolution Anthony Uren, Ph.D.,</b> School of Biomedical Sciences, Faculty of Health, Derriford Research Facility, University of Plymouth, UK   |   |  |  |
| 10:20     | New Anti-angiogenic Treatments for Cancer by Modulation of VEGF-A Alternative Splicing Sebastian Oltean, MBBS, Ph.D., Associate Professor in Experimental Medicine and Therapeutics, Department of Clinical and Biomedical Sciences, University of Exeter Medical School, UK |   |  |  |

Wan Seok Yang, Ph.D., Associate Professor, Department of Biological Sciences, St. John's University, Queens, NY
 15.00 Factors Affecting Outcomes of Bone Marrow Stem Cell Therapy for Acute Myocardial Infarction Evan Czulada, Georgetown University School of Medicine, Washington, D.C.

Mouse Embryonic Stem Cell-derived Motor Neurons are Susceptible to Ferroptosis

14.50

Day-4, April 27-Virtual CEB-2023 Program

#### **NOTES**

# Wi-Fi Information Wi-Fi network: Hilton Honors Meetings Code: laugh

\* Young Researchers

# We wish to see you at CEB-2024



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