



**UNITED**

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Scientific  
Group



**CEB-2024**

APRIL 22-24, 2024 | BALTIMORE, MD

## Program



th

International Conference on

# Cell and Experimental Biology

**April 22-24, 2024**

Hilton Baltimore BWI Airport Hotel  
Baltimore, MD

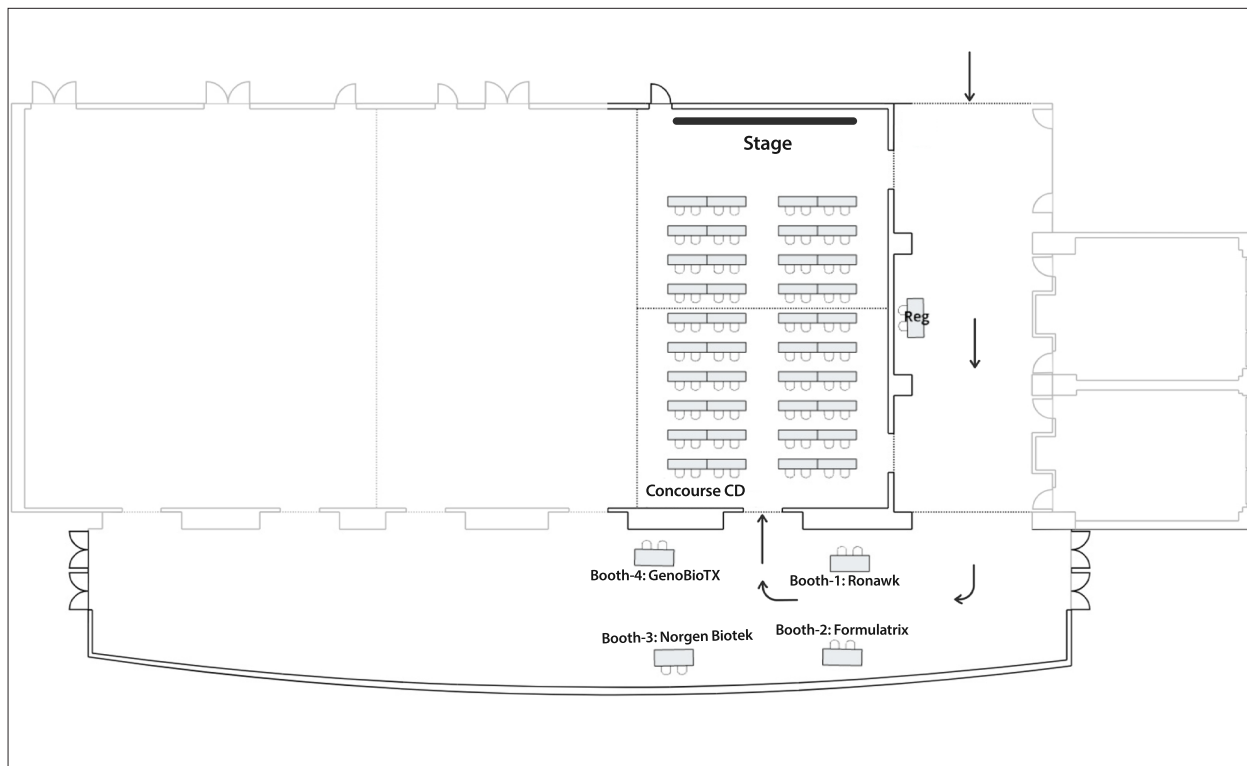
**April 25, 2024**

Virtual

## Exhibitors



# FLOOR PLAN



## Meeting link (Live streaming on Zoom Platform)

**Topic:** 5<sup>th</sup> International Conference on Cell and Experimental Biology (CEB-2024)

**Dates:** Apr 22-25, 2024

**Zone:** Eastern Time (US and Canada)

**Join Zoom Live Stream**

<https://us06web.zoom.us/j/83747804887?pwd=VcPqwzFTpMA5XemVXescbpmfexlb2A.1>

**Meeting ID:** 837 4780 4887

**Passcode:** 527923

### Day 1 April 22, 2024

Registrations: **Foyer**

Meeting room: **Concourse C & D**

Break: **Foyer**

Lunch: **Flight Deck**

Posters and Drinks: **Foyer**

### Day 2 April 23, 2024

Meeting room: **Concourse C & D**

Break: **Foyer**

Lunch: **Flight Deck**

### Day 3 April 24, 2024

Meeting room: **Concourse C & D**

Break: **Foyer**

Lunch: **Flight Deck**

### Day 4 April 25, 2024

**Virtual Presentations**

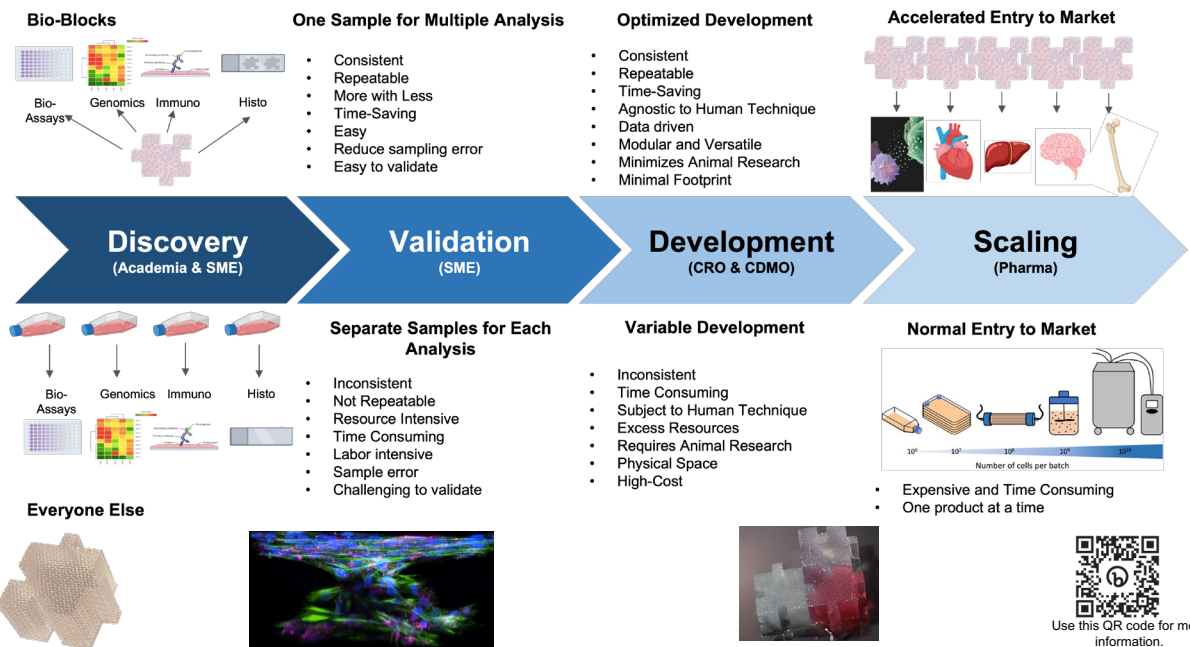


RONAWK was established in 2019 with the aim of creating exceptional technologies that enable cells from the human body to grow in an external environment closely resembling their natural habitat.

Ronawk has developed the Bio-Block technology – a new class of Bio-Factory for generating biologically active compounds such as tissue, cells, and cellular secretions. The Bio-Block microenvironment allow cells to form into tissue producing better quality and quantity of cells and biologics. The goal is to swiftly tailor patient specific next-generation therapies for treating diseases, cancer, organ injuries, burns, drug/therapy development, and more.

Bio-Blocks are a customizable 3D porous hydrogel substrate enabling real-time observations, novel stimuli introduction, co-culturing, and cellular analysis. The structure facilitates large-scale production without changing the substrate and keeping patient (and source) cells in a native state. Utilizing its proprietary method, they introduce a groundbreaking approach to cultivate primary tissue, stem cells, and production cell lines in a 3D environment while preserving their essential characteristics outside of the body.

## Consistency Accelerates Entry to Market



6803 W 64 St, Suite 200, Overland Park, KS 66202 \* [Ronawk.com](http://Ronawk.com) \* [info@Ronawk.com](mailto:info@Ronawk.com)



# MANTIS®

## Precise Liquid Dispenser

The Mantis is a programmable, low volume, low dead volume, non-contact liquid dispenser that can reliably dispense a variety of solutions including those containing beads, cells, proteins, enzymes, probes and master mixes.

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- **Verify Every Dispense Run** - the new Quality Control Droplet Detection Station verifies if drops were dispensed at the beginning and end of your run
- **Know the Status of Your Dispense** - the new LED Status Bar shows the status of your dispense at a glance
- **Even Better Precision and Accuracy** - the new High-Fidelity Chips allow for even tighter dispense parameters (<2% CVs at 100 nL)
- **Tackle High Viscosity Reagents** - the new High Viscosity Continuous Flow Chips can dispense thicker reagents than ever before
- **Compatible with a Broader Range of Plates** - the new Adaptable Plate Clamp is gentle enough to accommodate even thin-bottomed plates
- **Define your Labware in Seconds** - the new Interactive Labware Teaching module in the Mantis makes adding new labware a breeze
- **Ensure Even More Uptime** - the new Mantis features improved failsafes, including Automated Breach Detection, making it even more robust
- **Seamless Operation in Regulatory Environments** - the system now features optional 21 CFR Part 11 Capable Software
- **Small Footprint** - All these new features are packed within the same small footprint; **Biosafety Cabinet Compatible**



### Reduce Costs

Miniaturize reactions with tipless dispensing



### Reproducible and Accurate

Dispense volumes down to 100 nL at CV < 2%



### Versatile and Flexible

Reagent dispensing for a broad range of applications

## Broad Range of Applications



Sequencing Technologies



Cell & Bead-Based Assays



PCR Technologies



Assay Development & Screening



Nucleic Acid Workflows



## Providing You With a Simple Workflow

Norgen Biotek Corp., established in 1998 in Ontario, Canada by Dr. Yousef Haj-Ahmad, is a distinguished biotechnology company known for its proficiency in sample preparation, molecular diagnostics, and lab services. Norgen, with its commitment to quality along with its ISO 9001 and ISO 13485 accreditations, produces reliable products and services that are utilized around the globe by the scientific community.

The company offers an extensive array of products and services, including comprehensive solutions from sample collection to downstream applications, unique technologies for RNA and exosome isolation, and specialized services such as Next Generation Sequencing. Norgen is dedicated to innovation, quality, and customer satisfaction, reinforcing its global standing in the life sciences.

### 1. Collection & Preservation

#### Collection & Preservation Devices

- ✓ Avoid Cold Chain Shipping
- ✓ Preserve Nucleic Acids
- ✓ Choose from Devices and Reagents



Discover more about our proprietary resin/matrix at [norgenbiotech.com/rna-extraction-technology](https://norgenbiotech.com/rna-extraction-technology)

### 2. Isolation & Purification

#### Sample Types

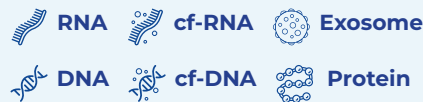
From Bodily Fluids to Microbiome Samples

- ✓ Blood
- ✓ Urine
- ✓ Saliva
- ✓ Stool

From Broad to Challenging Samples

- ✓ Cells
- ✓ Tissue
- ✓ Fatty Tissue
- ✓ FFPE and more...

#### Analytes

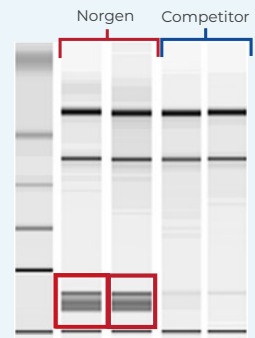


#### Advantages of Norgen's Technology

**Impartial:** Binds/Elutes Regardless of Size or GC content

**Flexible:** Spin Column, Slurry, 96 Well and Magnetic Bead

**Special Kits:** For Cytoplasmic/Nuclear fractions, Single-Cell, and miRNA



High Quality of Isolated RNA with Complete Size Range

### 3. Downstream Preparation & Analysis

#### Kits

- ✓ Library Prep Kits
- ✓ Clean-up and Concentration Kits
- ✓ Molecular Diagnostic Kits



#### Services

- ✓ Isolation - Even from Low Input Samples
- ✓ Sequencing - Small RNA Seq, RNA-Seq 16S, ITS, Shallow Shotgun
- ✓ Bioinformatics Analysis



#### Find Out More!

Visit us at [norgenbiotech.com](https://norgenbiotech.com)  
 Call us at **1.866.NORGENB** or **905.227.8848**  
 Email us at [support@norgenbiotech.com](mailto:support@norgenbiotech.com)



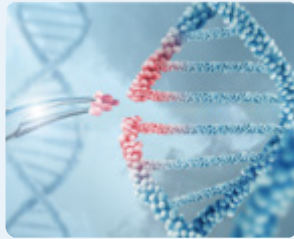
# Comprehensive Toolbox for your Research!

## Rapid Expanding Portfolio

**9,000+**  
Research ready  
models



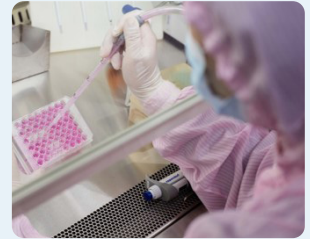
**20,000+**  
Mouse strains  
developed



**4,000+**  
R&D capacity  
per year



**500+**  
Genetic modified  
cell lines



## One-stop-shop Service

Customized genetically  
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KO  
cKO  
Point mutation  
Targeted overexpression  
Random transgenic

Off the shelf mouse  
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Target-humanized model  
Immunodeficient model  
Fluorescence reporter model  
Disease model  
Cre/Dre-driver model

Colony management  
and CRO services



Rapid breeding  
Colony scale-up  
Efficacy evaluation  
CDX/PDX model  
Antibody development

**24**  
years  
Focus on animal models

## Our Advantages

- Competitive rates
- Fast turnaround time
- Expert evaluation for free
- Streamlined project management



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Meeting ID: 837 4780 4887

Passcode: 527923

Meeting Room: Concourse C &amp; D

7.30 Registrations and Badge Pickup

8.10 Welcome Speech

## Keynote Talks

Chair: **Tao Pan**8.20 **Steven Gross**, Professor, Department of Developmental and Cell Biology, School of Biological Sciences, University of California, Irvine, CA**On the Use of Optical Traps to Understand Molecular Motor Function *In Vivo***8.50 **G. Marius Clore**, NIH Distinguished Investigator, Chief, Section of Molecular and Structural Biophysics, Laboratory of Chemical Physics, NIDDK, NIH, Bethesda, MD**Uncovering the Link Between Microsecond Pre-nucleation Oligomerization and Slow Fibril Formation of the Huntingtin Exon-1 Protein Using NMR Spectroscopy**9.20 **Jürgen Wess**, Chief, Molecular Signaling Section, Laboratory of Bioorganic Chemistry, NIDDK, NIH, Bethesda, MD**Designer GPCRs as Tools to Identify Novel Targets for the Treatment of Diabetes and Related Metabolic Disorders**9.50 **Tao Pan**, Professor, Department of Biochemistry and Molecular Biology, University of Chicago, Chicago, IL  
**Investigate the Epitranscriptome with New Tools**

10.20 Exhibitor Talk - Ronawk - Scott Leigh

10:30-11:00 Coffee &amp; Visit to Exhibition Booths

## Cell and Developmental Biology

Chair: **Debra Dianne Murray**11.00 **Stephanie Seveau**, Professor, Department of Microbial Infection and Immunity, Ohio State University, Columbus, OH**Role of the Septin Cytoskeleton in Plasma Membrane Repair**11.20 **Huansheng Cao**, Assistant Professor, Division of Natural and Applied Sciences, Duke Kunshan University, China**Adding Flesh to Skeleton in Systems Biology: The Local Flux Coordination and Global Gene Expression Regulation in Metabolic Modeling**11.40 **Yi-nan Gong**, Assistant Professor, Department of Immunology, University of Pittsburgh, Pittsburgh, PA  
**Empowering Necrotic Survivors: Plasma Membrane Damage and Repair as Modulators for Innate Immunity**12.00 **Nikki Bialy**, BINA Program Coordinator, Morgridge Institute for Research, Madison, WI  
**BioImaging North America (BINA) - A Network Organization for Bioimaging Scientists**

12.20 **Kai Yang**, Assistant Professor, Department of Pediatrics, Indiana University School of Medicine, Indianapolis, IN  
**Coordination of Intrathymic Signals and Metabolic Reprogramming in Dictating Innate-like T Cell Fate**

12.40 Exhibitor Talk - **Formulatrix** - **Daniel Fontaine**

12.50 Exhibitor Talk - **Norgen Biotek** - **Alex Chauhan**

### 13:00-14:00 Networking Lunch & Visit to Exhibition Booths

14.00 **Payel Sen**, Stadtman Investigator, Laboratory of Genetics and Genomics, National Institute on Aging, NIH, Baltimore, MD  
**Epigenetic Mechanisms of Tissue Aging**

14.20 **Emanuel Passos**, President of the National Anti-Doping Organization of Cabo Verde Cidadela, Cape Verde  
**Physical Exercise Prevents and Mitigates Nonalcoholic Steatohepatitis-related Hepatic Endoplasmic Reticulum Stress**

14.40 **Yi Fang\***, Biologist, Metabolism, Genes, and Environment Group, Signal Transduction Lab, NIEHS, NIH, Durham, NC  
**Histone Crotonylation Promotes Endoderm Differentiation from Human Embryonic Stem Cells**

14.55 **Huan Liu\***, Post-doc, Department of Internal Medicine I, Ludwig Maximilians University, Germany  
**Multiphoton *In Vivo* Microscopy of Embryonic Thrombopoiesis Reveals the Generation of Platelets Through Budding**

## Cellular & Gene Therapy

Chair: **Zhe Ji**

15.10 **Tae-Ho Hwang**, Department of Pharmacology, Pusan National University, South Korea  
**New Innovative Cancer Virotherapy Concepted by Reverse Translational Immune Study from Retrospective Analysis of Pexa-vec Clinical Study**

15.30 **Hungoo Lee\***, Department of Molecular Biology, MGH; Department of Genetics, Harvard Medical School, Boston, MA  
**Site-specific R-loops Remove Root Cause of Fragile X Syndrome by Inducing CGG Repeat Contraction and FMR1 Reactivation**

15.45 Exhibitor Talk - **GenoBioTX** - **Hua Wei**

### 15:55-16:20 Coffee & Visit to Exhibition Booths

## Physiology and Pharmacology

Chair: **Stephanie Seveau**

16.20 **Zhiwei Chen**, Chair, Professor of Immunology and Immunotherapy, Department of Microbiology, School of Clinical Medicine, LKS Faculty of Medicine of the University of Hong Kong, China  
**Exceptional Fitness of B Cell Receptor for Ultrapotent Neutralising Antibodies Against Emerging SARS-CoV-2 Variants**

16.40 **Allison Herman**, Independent Research Scholar, Translational Senescence Unit, National Institute on Aging, NIH, Baltimore, MD  
**Role of GDF15 in Cellular Communication During Vascular Senescence**

17.00 **Alys Peisley**, Assistant Research Scientist, Life Sciences Institute, University of Michigan, Ann Arbor, MI  
**Exploring the Conformational Landscape of the Inwardly Rectifying Potassium Channel Kir7.1 via Missense Mutations and Chemical Modulation**



17.20 **Michele Persico\***, Neurology Resident, Emory University School of Medicine, Atlanta, GA  
**The Antineoplastic Properties of Antipsychotics in Glioblastoma**

## Posters & Networking Reception (17.50 - 18.50)

- CEB-P01 **Kaitlin O'Boyle**, Master of Science in Biomedical Sciences Program at Philadelphia College of Osteopathic Medicine, Philadelphia, PA  
**The Role of PPARs During *Coxiella burnetii* Infection**
- CEB-P02 **Akraam Ali**, PhD Student, Queen Mary University of London, UK  
**Molecular Characterization of Cnp3 in *Schizosaccharomyces pombe***
- CEB-P03 **Tatiane da Silva Fernandes**, PhD Candidate (ET track), Roswell Park Comprehensive Cancer Center, Buffalo, NY  
**Targeting IMPDH2 to Overcome Chemoresistance in TNBC**
- CEB-P04 **Sheila M. Valle-Cortes**, Ponce Health Sciences University, Puerto Rico  
**The Role of Phosphorylated Retinoblastoma Tumor Suppressor at Serine 249 in Prostate Cancer Metastasis**
- CEB-P05 **Joel A. Orenge**, Ponce Research Institute, Ponce Health Sciences University, Puerto Rico  
**AURKA and AURKB as Potential Targets to Suppress Early Metastasis in Triple-negative Breast Cancer in Women of African Ancestry**
- CEB-P06 **Kotb Abdelmohsen**, Senior Associate Scientist, Laboratory of Genetics and Genomics, National Institute on Aging, NIH, Baltimore, MD  
**Identification of Senescent Cell Subpopulations by CITE-seq Analysis**
- CEB-P07 **Ajay Kumar**, Department of Oncology and Diagnostic Sciences, School of Dentistry, University of Maryland, Baltimore, MD  
**Angiopoietin-like 4 Induces Head and Neck Squamous Cell Carcinoma Cell Migration Through the NRP1/ABL1/PXN Pathway**
- CEB-P08 **Y. Charlie Chen**, Visiting Associate Professor of Biology, West Virginia Wesleyan College, Buckhannon, WV  
**Theaflavin and Cancer Cells**
- CEB-P09 **Lloyrn Cylin**, MS Student, Mercer University School of Medicine, Macon, GA  
**Development of Synthetic Nanobody Library**
- CEB-P10 **Ishita Dhiman**, Marcia Haigis Lab, Harvard Medical School, Boston, MA  
**GUK1 is a Novel Metabolic Liability in ALK+ Lung Cancer**
- CEB-P11 **Yishu Qiu**, Molecular Signaling Section, Laboratory of Bioorganic Chemistry, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD  
**Gi Signaling in Mouse Brown Fat Regulates Whole-body Glucose Homeostasis**
- CEB-P12 **Ya-Chu Ku**, Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan  
**Dysregulating IGF-1-Sp1-CD248 Pathway Impairs Fibroblast Functionality in Diabetic Wound Healing**
- CEB-P13 **Qing Xu**, Biologist, National Institute of Environmental Health Sciences (NIEHS), NIH, Durham, NC  
**Liver Cancer Cells that Survive Methionine Restriction Develop Phenotypes of Persistent Cancer Cells**
- CEB-P14 **Tyrone Salters**, Department of Chemistry, Physics and Materials, Science, Fayetteville State University, Fayetteville, NC  
**Role of Epididymis in the Recognition and Elimination of Non Viable Spermatozoa**
- CEB-P15 **Ashwaq Alanazi**, Chapman University, Irvine, CA  
**Identifying the Role of miR-17**

- CEB-P16 **Sibani Sengupta**, Assistant Principal, Sacred Heart Academy, Hamden, CT  
**Sequencing 5'UTR and Exon 1 of MSH2: A Gene Implicated in Human Colorectal Cancer**
- CEB-P17 **AHM Shafiqul Islam**, Department of Molecular Medicine, Faculty of Molecular Tropical Medicine and Genetics, Mahidol University, Thailand  
**The Influence of Temperature on the Expression Profile of Outer Membrane Proteins in *Acinetobacter baumannii***
- CEB-P18 **Dreyton Amador**, Columbia University Irving Medical Center, New York, NY  
**Understanding Human Wound Healing by Modeling Tissue Injury Response In-a-dish**

**End of Day 1**

Join Zoom Live Stream

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Meeting ID: 837 4780 4887

Passcode: 527923

Meeting Room: Concourse C &amp; D

## Biochemistry and Molecular Biology

**Chairs: Thomas Kunkel (8.00 - 10:20) and Haitao Wen (10:50 - 14.55)**

- 8.00 **Ge Shan**, Professor, School of Basic Medical Sciences University of Science and Technology of China, China  
**Diversity of Circular RNAs: Subclasses and Functions**
- 8.20 **Haitao Wen**, Professor, Department of Microbial Infection and Immunity, Pelotonia Institute for Immunology, The Ohio State University Comprehensive Cancer Center, Columbus, OH  
**Multiple Functions of O-GlcNAc Transferase in Host Defense Mechanism**
- 8.40 **Thomas Kunkel**, NIH Distinguished Investigator, Genome Integrity & Structural Biology Laboratory, DNA Replication Fidelity Group, NIEHS, NIH, Research Triangle Park, NC  
**Studies of the Fidelity of Eukaryotic DNA Replication Fidelity**
- 9.00 **Sushant Bhatnagar**, Associate Professor, Department of Medicine, Division of Endocrinology, Diabetes, and Metabolism, University of Alabama at Birmingham, AL  
**Complement 1q-like 3 Secreted Protein is an Autocrine Regulator of Pancreatic Beta-cell Function**
- 9.20 **Zhe Ji**, Assistant Professor, Departments of Pharmacology and Biomedical Engineering, Northwestern University, Chicago, IL  
**Mining Genomic Noncanonical Peptides Using Ribosome Profiling**
- 9.40 **Yi Zhang**, Assistant Professor, Department of Biochemistry, School of Medicine, Case Western Reserve University, Cleveland, OH  
**Regulation of Protein Homeostasis by a tRNA Mediated Post-translational Modification**
- 10.00 **Elizabeth A. Sweeny**, Assistant Professor, Department of Biochemistry, Medical College of Wisconsin, Milwaukee, WI  
**Interactions Between the Oxidative Signaling Enzyme NADPH Oxidase 5 and Actin**

### 10:20-10:50 Coffee & Visit to Exhibition Booths

- 10.50 **Special Talk: Debra Dianne Murray**, Associate Professor, Molecular and Human Genetics, Baylor College of Medicine, Houston, TX  
**Driving Innovation: Breaking Barriers by Empowering Early Career Researchers with the All of Us Data Platform**
- 11.20 **Hongmei Mou**, Assistant Professor of Pediatrics, The Mucosal Immunology & Biology Research Center, Massachusetts General Hospital, Harvard Medical School, Boston, MA  
**Airway Squamous Differentiation and Mucosal Innate Immune Vulnerability**
- 11.40 **Chongyi Chen**, Stadtman Investigator, Laboratory of Biochemistry and Molecular Biology, NCI, NIH, Bethesda, MD  
**Explore DNA Topological Tension Across the Human Genome**

- 12.00 **Parisa Kalantari**, Assistant Professor, Department of Veterinary and Biomedical Sciences, Penn State University, University Park, PA  
**The Two Antagonistic Pathways, Type I Interferon and Inflammasome/Gasdermin D, Control the Severity of Schistosome Immunopathology**
- 12.20 **Sayem Miah**, Assistant Professor, Department of Biochemistry and Molecular Biology, WPRCI, University of Arkansas for Medical Sciences, Little Rock, AR  
**Beyond the Sin3/HDAC Complex: FAM60A Emerges as a Regulator of RNA Processing**
- 12.40 **David Cowburn**, Departments of Biochemistry and Systems & Computational Biology, Albert Einstein College of Medicine, Bronx, NY  
**Integrative Spatiotemporal Map of Nucleocytoplasmic Transport**

### 13:00-14:00 Networking Lunch & Visit to Exhibition Booths

- 14.00 **Basil Hubbard**, Associate Professor, Department of Pharmacology and Toxicology, Temerty Faculty of Medicine, University of Toronto, Toronto, ON  
**Enhancing CRISPR Tools Using Guide RNAs Containing Xenonucleic Acid (XNA) Modifications**
- 14.20 **Kayvon Pedram**, Group Leader, Howard Hughes Medical Institute, Janelia Research Campus, Ashburn, VA  
**Molecular Tools to Image the Glycocalyx and Extracellular Matrix**
- 14.40 **Kaustubh Wagh\***, Laboratory of Receptor Biology and Gene Expression, National Cancer Institute, NIH, Bethesda, MD  
**Regulating Gene Expression: The Role of Transcription Factor Dynamics**

## Cell Signaling & Cancer Biology

Chair: **Anna Bianchi-Smiraglia**

- 14.55 **Meenakshi Chellaiah**, Professor, University of Maryland, Dental School; Department of Oncology and Diagnostic Sciences Greenebaum Comprehensive Cancer Center, Baltimore, MD  
**L-plastin and Invasion of Prostate Cancer Cells (PC3)**
- 15.15 **Kyoung-Jae Won**, Associate Professor, Department of Computational Biomedicine, Cedars-Sinai Medical Center, West Hollywood, CA  
**Studying Cell-cell Interaction and Tumor Microenvironment from Spatial Transcriptomics Data**
- 15.35 **Anna Bianchi-Smiraglia**, Assistant Professor of Oncology, Department of Cell Stress Biology, Roswell Park Comprehensive Cancer Center, Buffalo, NY  
**AhR is a Tumor Promoter in MYCN-amplified Neuroblastoma**

### 15.55-16:20 Coffee & Visit to Exhibition Booths

- 16.20 **Dawit Kidane-Mulat**, Associate Professor, College of Medicine, Howard University, Washington, DC  
**Manipulating Cancer Cell Metabolism and DNA Repair for Cancer Therapy**
- 16.40 **Yinling Hu**, Senior Investigator, Cancer Innovation Laboratory, Center for Cancer Research, NCI, NIH, Bethesda, MD  
**A TNFR1-UBCH10 Axis Drives Lung Squamous Cell Carcinoma Dedifferentiation and Metastasis Through a Cell-autonomous Signaling Loop**
- 17.00 **Hema Adhikari**, Assistant Professor, Biochemistry & Molecular Biophysics, Washington University School of Medicine, St. Louis, MO  
**RAS Signaling Networks in Cancer**
- 17.20 **Andrei V. Bakin**, Associate Professor, Department of Cancer Genetics and Genomics, Roswell Park Comprehensive Cancer Center, Buffalo, NY  
**Novel Synthetic Lethality Therapeutic Strategy for p53-mutant Colorectal Cancer**

## End of Day 2

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Passcode: 527923

Meeting Room: Concourse C &amp; D

## Experimental Biology and Disease Physiology

Chairs: **Xun Ai** and **Zvezdana Kojic**

- 8.00 **Dimitrios Spentzos**, Center for Sarcoma and Connective Tissue Oncology, MGH Cancer Center; and Associate Professor, Harvard Medical School, Boston, MA  
**Epigenetic Patterns Define Molecular Subtypes, and Predict Clinical Outcome in Osteosarcoma**
- 8.20 **Jorg Gsponer**, Professor, Department of Biochemistry and Molecular Biology, Michael Smith Laboratories, University of British Columbia, Canada  
**Where Protein Structure and Cell Diversity Meet**
- 8.40 **Zvezdana Kojic**, Professor, Department of Physiology, Faculty of Medicine, University of Belgrade, Serbia  
**Ageing-Associated Leydig Cell Hypofunction are Associated with Diminished Oxygen Utilization and Mitochondrial Dysfunction**
- 9.00 **Silvana Andric**, Professor, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia  
**Mito-Sperm-Signature: A Possible New Prognostic/Diagnostic Tool to Assess Men (in/sub) fertility by Using Mitochondrial Dynamics Markers in Spermatozoa**
- 9.20 **Tatjana Kostic**, Professor, Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia  
**Impacts of Circadian Rhythm Disruption on Testicular Function**
- 9.40 **Hwee Goon Tay**, Assistant Professor in Centre for Vision Research, DUKE-NUS Medical School, Singapore Eye Research Institute, EYE ACP, Singapore  
**Developing Laminin Based Photoreceptor Differentiation for Retina Degeneration**

### 10:00-10:20 Coffee Break & Visit to Exhibition Booths

- 10.20 **Yi-Tao Yu**, Professor, Department of Biochemistry and Biophysics, Center for RNA Biology, Wilmot Cancer Institute, University of Rochester Medical Center, New York, NY  
**Correction of Genetic Mutations in Disease Genes by RNA-guided RNA Pseudouridylation**
- 10.40 **Haiming Cao**, Senior Investigator, Laboratory of Obesity and Metabolic Diseases, NHLBI, NIH, Bethesda, MD  
**Comprehensive Gene Profiling of the Metabolic Landscape of Humanized Livers in Mice**
- 11.00 **Xun Ai**, Professor, Department of Physiology and Cell Biology, College of Medicine/Wexner Medical Center, The Ohio State University, Columbus, OH  
**The Role of Stress Response Kinase JNK2 in Cardiac Pathological Remodeling: The Good and the Bad**

## Cellular and Molecular Neurobiology

Chair: **Luigi Puglielli**

- 11.20 **Luigi Puglielli**, Professor, Department of Medicine, Waisman Center, University of Wisconsin-Madison, Madison, WI  
**Acetylation in the Endoplasmic Reticulum and the Efficiency of the Secretory Pathway**
- 11.40 **Numan Oezguen**, Assistant Professor, Texas Children's Microbiome Center, Texas Children's Hospital; Department of Pathology and Immunology, BCM, Houston, TX  
**Is Phenyllactic Acid for Multiple Sclerosis what Trehalose is for *Clostridioides difficile*?**
- 12.00 **Thanh Hoang**, Assistant Professor, Department of Cell & Developmental Biology, Michigan Neuroscience Institute, University of Michigan, Ann Arbor, MI  
**In Vivo Regeneration of Neurons via Reprogramming Glial Cells**
- 12.20 **Arupratan Das**, Assistant Professor, Department of Ophthalmology, Department of Medical and Molecular Genetics, Indiana University School of Medicine, Indianapolis, IN  
**5-HT1A GPCR Provides a Novel Target for Glaucoma Neuroprotection**
- 12.40- **Lunch & In-person Departures**

## Virtual Presentations

Time: Eastern Time

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## Keynote Talks

Chair: **Sebastian Oltean**

- 13.30 **George A. Calin**, Professor, Department of Translational Molecular Pathology, The University of Texas MD Anderson Cancer Center, Houston, TX  
**About Patterns, Non-coding RNAs and Cancer Therapy**
- 14.00 **Kenneth M. Yamada**, NIH Distinguished Investigator, Chief, Cell Biology Section, NIDCR, NIH, Bethesda, MD  
**Cell-Matrix Dynamics in Development and Cancer**
- 14.30 **Maria T. Diaz-Meco**, Homer T. Hirst III Professor of Oncology, Department of Pathology and Laboratory Medicine, Weill Cornell Medicine, New York, NY  
**Metabolic and Epigenetic Control of Lineage Plasticity in Prostate Cancer**

## Experimental Biology and Disease Physiology

Chair: **Edison K. Miyawaki**

- 15.00 **Serena Milano**, Assistant Professor, Department of Sciences, University of Basilicata, Italy  
**Beta 3 Adrenergic Receptor Agonism Enhances AQP2 and NKCC2 Trafficking/Activation in Human Kidney Tubules. A Tool for Bypassing Genetic Defects that Prevent Vasopressin-Induced Antidiuresis**
- 15.20 **Hilal Kalkan**, University of Laval, Canada  
**Dysfunctional Gut Microbiota-endocannabinoid System Interplay in Rare Skeletal Muscle Myopathies: An Intricate Relationship That Must Be Taken into Consideration**
- 15.40 **Zhongjie Fu**, Assistant Professor, Department of Ophthalmology Boston Children's Hospital/Harvard Medical School, Boston, MA  
**Omics Analysis of Hyperglycemia-associated Retinal Disorder During Development**
- 16.00 **Ningning Zhao**, Associate Professor, School of Nutritional Sciences and Wellness, The University of Arizona, Tucson, AZ  
**Dietary Manganese Intake and ZIP Metal Transporters**
- 16.20 **Ana Nijnik**, Associate Professor, Canada Research Chair in Hematopoiesis Tier II, Department of Physiology, McGill University, Canada  
**Regulation of Hematopoiesis and Immunity by Nuclear Deubiquitinases MYSM1 and BAP1**
- 16.40 **Edison K. Miyawaki**, Assistant Professor of Neurology, Harvard Medical School; Department of Neurology, Brigham and Women's Hospital, Boston, MA  
**Revisiting a Telencephalic Extension of the Ascending Reticular Activating System. Or: How the Brain Attends to the World**
- 17.00 **Yijing Su**, Research Assistant Professor, Department of Neuroscience, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA  
**Revealing Glial Diversity and Molecular Clocks across Human Hippocampal Postnatal Lifespan and in Alzheimer's Disease using Single-Cell RNA-Seq Technology**
- 17.20 **Arunkumar Venkatesan\***, Research Scientist, Bernstein Lab, Department of Ophthalmology & Visual Sciences, SUNY Upstate Medical University, Syracuse, NY  
**Mitochondrial Dysfunction in Exfoliation Glaucoma**
- 17.35 **Yi-Ying Chiou**, Graduate Institute of Biochemistry, College of Life Sciences, National Chung Hsing University, Taiwan  
**Circadian Modulation of Glucose Utilization via CRY1-mediated Repression of Pdk1 Expression**
- 17.55 **Abul Hassan Samee**, Assistant Professor, Department of Integrative Physiology, Baylor College of Medicine, Houston, TX  
**Machine Learning and Spatial Omics in Modeling Disease Mechanisms**
- 18.15 **Brady Jin-Smith\***, Department of Pathology, Tulane University, New Orleans, LA  
**A Novel YAP-ALDH1A1 Axis Promotes Hepatocellular Carcinoma Resistance to Sorafenib**

**End of Day 3**

Join Zoom Live Stream

<https://us06web.zoom.us/j/83747804887?pwd=VcPqwzFTPmA5XemVXescbpmfexlb2A.1>

Meeting ID: 837 4780 4887

Passcode: 527923

## Cell Signaling & Cancer Biology

Chair: **Yong Lu**

- 8.15 **Eleni Petsalaki\***, Post-doc fellow, Department of Biology, University of Crete, Greece  
**A Novel Mechanism Promotes Actin Patch Formation to Prevent Chromatin Bridge Breakage in Cytokinesis**
- 8.30 **Antoine A. Khalil**, Assistant Professor, Center for Molecular Medicine (CMM) at the University Medical Center (UMC) Utrecht, The Netherlands  
**A YAP-centered Mechanotransduction Loop Drives Collective Breast Cancer Cell Invasion**
- 8.50 **Sebastian Oltean**, Associate Professor in Experimental Medicine and Therapeutics, Department of Clinical and Biomedical Sciences, University of Exeter Medical School, UK  
**SRPK1 as Determinant of Chemoresistance in Cancer Therapy**
- 9.10 **Irina Matei**, Assistant Professor, Departments of Pediatrics, Cell & Developmental Biology, Weill Cornell Medicine, New York, NY  
**Extracellular Vesicles: A Conserved Inter-cellular Communication System**
- 9.30 **Eugen Dhimolea**, Assistant Professor, Albert Einstein College of Medicine, Bronx, NY  
**Diapause-like Quiescence as Enabler of Treatment-persistence in Cancer Cells**
- 9.50 **Laura A. Kresty**, Associate Professor, Department of Surgery, Director, Thoracic Surgery Research Laboratory, University of Michigan, Ann Arbor, MI  
**Isoform Switching Events in Esophageal Adenocarcinoma Progression and Treatment**
- 10.10 **Chi Li**, Associate Professor, Experimental Therapeutics Group, Brown Cancer Center, Department of Medicine, University of Louisville, Louisville, KY  
**A Lung Cancer Vaccine Based on Embryonic Stem Cells**
- 10.30 **Sibaji Sarkar**, Quincy College, MBC College, RC College, Boston, MA  
**Carcinogenesis and Combination Therapy**
- 10.50 **Yong Lu**, Associate Professor, Houston Methodist Research Institute, Weill Cornell Medicine, New York, NY  
**A New Th9 Cell Paradigm for Adoptive Cell Therapy**
- 11.10 **Poster: Guanshu Liu\***, The University of Texas MD Anderson Cancer Center, Houston, TX  
**Aerobic Exercise Impacts the Tumor Microenvironment by Altering CAF Abundance and CAF-Activating Cytokines in Pancreatic Cancer**

## Cell and Developmental Biology

Chair: **Eugen Dhimolea**

- 11.20 **Merrill B. Hillem**, Professor Emerita, Department of Biology, University of Washington, Seattle, WA  
**Dynamic Regulation of Cell Adhesion and Cell Motility Governs the Formation of the Embryonic Axis in Vertebrate Embryos**

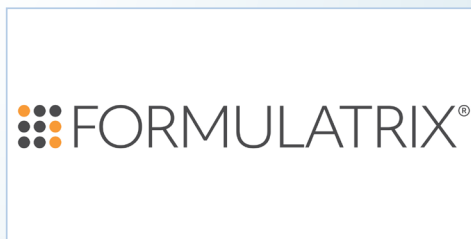


- 11.40 **Hannele Ruohola-Baker**, Professor, Department of Biochemistry, Associate Director, ISCRM, University of Washington, School of Medicine, Seattle, WA  
**Decoding Regeneration Using Computer Designed Proteins**
- 12.00 **Adam Johnston**, Professor, Department of Medical Neuroscience, Dalhousie University Life Sciences Research Institute, Canada  
**Defining Underexplored Vascular and Mesenchymal Progenitors in Skeletal Muscle Homeostasis and Growth**
- 12.20 **Francesco Manfredola\***, Department of Experimental Medicine, University of Campania Luigi Vanvitelli, Italy  
**Novel Insights into circRNA Saga Coming from Spermatozoa and Epididymis of HFD Mice**

**End of Day 4**

**We wish to see you  
at  
CEB-2025 (Houston, TX)**

**Exhibitors**



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