Poster Session I
Friday July 8th, 7:00-8:00 PM, Kokopelli’s Trail
1) Jerome Arceneaux
Vanderbilt University
Mapping the Cellular Composition of Resected Cortical Tubers and Perituberal Tissues

2) Ryan Reyes
University of Texas Health San Antonio
CD122-targeted interleukin-2 and αPD-L1 Treat Bladder Cancer and Melanoma via Distinct Mechanisms Including Tissue-selective γδ T cell Activation and CD122-driven Natural Killer Cell Maturation

3) Khoa Nguyen
Tulane University
LKB1-SIK1 Signaling Regulates the Cancer Stem Cell Axis in TNBC

4) Lauren Morehead
University of Arkansas for Medical Sciences
Harnessing resveratrol-mediated Restoration of MHC-I in Melanoma to Enhance Immunotherapy

5) Luke Brennan
Indiana University
Perspectives on Cervical Cancer Screening Technologies from Indiana Healthcare Providers

6) Alexandra A. Miller
University of Texas Health Science Center, Houston
Systematic Review of Aptamer Sequence Reporting in the Literature Reveals Widespread Unexplained Sequence Alterations

7) Chloe Gao
University of British Columbia
Understanding the mental health and recovery needs of first- and second-generation Canadian East Asian immigrant youth aged 12–24: A Strategy for Patient-Oriented Research (SPOR) collaboration study

8) Andres Dajles
University of Iowa
9) Alexander Girgis
Johns Hopkins University
Distinct Adaptive Immune Receptor Repertoires Characterize Post-Treatment Lyme Disease

10) Saif Yasin
University of Maryland
Characterizing the Mechanism of HIV-1 Genome Dimerization

11) Andy An
University of British Columbia
Unresolved Immune Dysfunction is Lethal in Both COVID-19 and non-COVID-19 Sepsis

12) Frances Li
University of Colorado
Defining MARCO-virus Interactions Important for Alphavirus Clearance from the Circulation

13) Savannah Taylor
University of Texas Southwestern
Colonocyte-derived lactate promotes E. coli fitness in the context of inflammation-associated gut microbiota dysbiosis

14) Meryem OK
University of North Carolina at Chapel Hill / North Carolina State University
A novel platform using healthy human colonic epithelium demonstrates the impact of Clostridioides difficile toxins on colonic epithelial integrity

15) Chloe Cavanaugh
Rutgers Robert Wood Johnson Medical School / Princeton University
Mechanism and Therapeutic Implications of Host Cell Telomerase Modulation by Human Cytomegalovirus

16) Kyler Crawford
Medical College of Wisconsin
Structural insights on the ‘DARC’ side of CXCL12 signaling and bone marrow metastasis
17) Andrew Oleksijew
University of Nebraska
**Fluid stasis promotes dysregulated mechanosensory signaling pathways in cholestatic disease**

18) Michaela Cooley
Case Western Reserve University
**Nanobubble Contrast-Enhanced Ultrasound Imaging for Assessing Tumor Vascular Permeability and Nanoparticle Extravasation**

19) Gary Ge
University of Rochester
**Power laws in medical imaging**

20) Dane Sessions
University of Virginia
**Opa1 opposes mitochondrial fission to maintain ETC assembly and function in KRas-mutant lung adenocarcinoma**

21) Melissa Anfinson
Medical College of Wisconsin
**The novel MYH6-E1584K tail domain variant associated with hypoplastic left heart syndrome impairs cardiomyocyte mechanics in vitro**

22) Aditi Misra
University of Rochester
**Transcriptomic Analysis of Neonatal Cardiac Regeneration and Scar Resolution**

23) Alexandra Vik
University of Maryland
**Role of macrophage polarization in TLR4-SNP-associated increased colitis severity**

24) Brandon Hubbard
Yale School of Medicine
**A novel mass-isotopomer method assesses hepatic electron transport chain and non-canonical anaplerotic fluxes in vivo**

25) Anne Skelton
Virginia Commonwealth University
**Are Osteoblast-derived Matrix Vesicles a Species of Exosome?**

26) Johnathan Gigas
University of Rochester
Longevity-associated regulation of SIRT6 by AMPK alters DNA binding and interacting partners

27) Roger Zou
Johns Hopkins University
Characterization of genome editing dynamics with multi-target CRISPR

28) Valentyna Kostiuk
Yale School of Medicine
The role of nucleoporin 107 in early embryonic patterning

29) Matthew Miller
University of Iowa
Cdkn1a (p21) promotes skeletal muscle atrophy by inhibiting cyclin-dependent kinase 1 (Cdk1)

30) Alex Moauro
Michigan State University
Exogenous Oct4/Pou5f1 is not required to produce induced extraembryonic endoderm stem cells during somatic cell reprogramming

31) William Tang
University of Utah
MicroRNA-155 Expression in T cells Orchestrates Immune Responses in Colon Cancer

32) Jayden Bowen
University of Iowa
The role of TREM-1 in allergic airway inflammation

33) Emily King
University of Colorado
Acute lung inflammation is characterized by early recruitment of monocytes to the airspace and continued recruitment to the pulmonary interstitium

34) Jonathan Liang
Yale School of Medicine
Saturated fatty acid activation of the NLRP3 inflammasome depends more strongly on JNK activation than on ROS

35) Andrew Griswold
Weill Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Program
The NLRP1 Inflammasome Induces Pyroptosis in Human Corneal Epithelial Cells
36) Rose Caston  
University of Utah  
Suppression of broad-band gamma associated with thermo-nociception in the posterior insula

37) Corey Shayman  
University of Utah  
The Effects of Age on Sensory Integration during Navigation

38) Alexander Baez  
Stony Brook University  
Striatal Cholinergic Interneurons are Driven to Increased Acetylcholine Output in the SAPAP3-deletion Model of Obsessive Compulsive Disorder

39) Rachel Furhang  
State University of New York Downstate Health Sciences University  
A Single Traumatic Bain Injury Leads to Chronic, Progressive White Matter Atrophy and Increased Phosphorylated Tau Expressing Oligodendrocytes

40) Anthony Chesebro  
Stony Brook University  
Characterizing neurogliovascular unit response to natural sensory input

41) Tyler Waltz  
Medical College of Wisconsin  
Peripheral Neuron Excitability is Mediated by Schwann cells in Fabry disease

42) Edith Hernandez  
University of Minnesota  
Repurposing Metformin as a treatment for Cocaine Use Disorder via AMPK Activation

43) Thao Le  
Vanderbilt University  
Liver Fibroblast Growth Factor 21 (FGF21) is Required for the Full Body Weight-and Appetite-Suppressing Effects of Glucagon-Like Peptide-1 (GLP-1) Receptor Agonism

44) Mark Mizrachi  
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell  
HMGB1-mediated microglial activation as a mechanism for cognitive dysfunction in neuropsychiatric lupus
45) Frances Zakusilo  
University of Rochester  
**Comparative Study of Oxidative Stress Resistance in Naked Mole Rat, Mouse, Degu, and Human Astroglia**

46) Bilal Moiz  
University of Maryland  
**Niemann-Pick Disease Type C1 inhibition leads to loss of barrier integrity and altered metabolic phenotype in brain microvascular endothelial cells**

47) Joseph Vecchi  
University of Iowa  
**Feature Characteristics and Signaling Mechanisms Involved in Spiral Ganglion Neurite Guidance**

48) David Freeman  
University of Utah  
**CRIPTO regulates fibroblast-tumor crosstalk and cell-state in breast cancer**

49) Xue Qi “Amy” Wang  
University of British Columbia  
**Targeting SS18-SSX biology in synovial sarcomagenesis**

50) Matthew Loberg  
Vanderbilt University  
**Deciphering the role of cancer-associated fibroblasts in thyroid cancer progression**

51) Tejaswini Reddy  
Texas A&M School of Medicine  
**NOS inhibition augments PI3K inhibitor efficacy in metaplastic breast cancer.**

52) Neville Dusaj  
Weill Cornell/Rockefeller/Sloan Kettering Tri-Institutional MD-PhD Program  
**Single-cell multi-omics of human clonal hematopoiesis reveals that DNMT3A R882 mutations perturb early progenitor states through selective hypomethylation**

53) Chad VanSant-Webb  
University of Utah  
**Dissecting the role of Inflammation and miR-146a in Hepatocellular Carcinoma**
54) Justin Magrath  
Tulane University  
Transcriptome Analysis Identifies SRC Kinase Inhibitors as a Therapeutic for Desmoplastic Small Round Cell Tumor Cancer Stem Cells

55) Nisitha Sengottuvel  
University of North Carolina at Chapel Hill  
Lineage Switching and Tumor Microenvironment Roles of Tumor Suppressors in Autochthonous Lung Cancer Models

56) Connor Hughes  
University of Colorado  
Eya3 regulates NF-kB signaling and tumor progression in Triple Negative Breast Cancer

57) Ayana Jamal  
Medical College of Wisconsin  
Investigating the role of shroom3 in cardiac function and regeneration

58) Nickole Moon  
University of Maryland  
Extracellular vesicles coordinate stress-dependent mitochondrial programming

59) Redwan Bhuiyan  
University of Connecticut  
Dissecting the genetic programming of inflammatory cytokine responses in human islets

60) Eudorah Vital  
Emory University School of Medicine / Georgia Institute of Technology  
Linking Circulatory Turbulence and the Pathophysiology of Sickle Cell Disease (SCD)