

## CABTRAC 2019 Poster Abstracts

### **Targeting Mitochondrial and Cytosolic One-Carbon Metabolism in Epithelial Ovarian Cancer**

Adrienne Wallace-Povirk, Wayne State University

adrienne.wallace@wayne.edu

### **The role of BNIP3 and NIX in Mitophagy Regulation and RAS-Induced Transformation**

Alexandra Smith, University of Chicago

smithag@uchicago.edu

### **FOXQ1 hijacks the KMT2/MLL core complex to promote transcriptional activation of the epithelial to mesenchymal transition (EMT) program**

Allison Mitchell, Wayne State University

eo7693@wayne.edu

### **"EV Fingerprinting": Resolving the heterogeneity of extracellular vesicle populations in biofluids using dimensional reduction of multi-parametric flow cytometry data**

Ariana von Lersner, Vanderbilt University

ariana.k.von.lersner@vanderbilt.edu

### **The role of ARID1B in liver regeneration and hepatocellular carcinoma**

Austin Moore, University of Texas Southwestern Medical Center

Austin.Moore@UTSouthwestern.edu

### **Using Base Editing to Characterize How Mutations in the Base Excision Repair Protein MUTYH Cause Colorectal Cancer**

Carlos Anthony Vasquez, University of California, San Diego

c5vasque@ucsd.edu

### **The Role of Chemoexosomes in Tumor Metastasis**

Carson Wills, Penn State College of Medicine

cwills@pennstatehealth.psu.edu

### **APC Loss Mediates Doxorubicin Response in Breast Cancer**

Casey Stefanski, University of Notre Dame

cstefans@nd.edu

### **B cell receptor activation drives immunosuppression by IL35+ regulatory B cells in pancreatic cancer**

Dan Michaud, University of North Carolina at Chapel Hill

dmichaud@email.unc.edu

### **Age-related changes in the microenvironment enhance ovarian cancer metastasis**

Elizabeth Harper, University of Notre Dame

eharper1@nd.edu

### **Novel Engineered Exosomes for the Targeting and Delivery of Therapeutics to Breast Cancer Cells**

Emma Schuster, Northwestern University

emmaschuster2022@u.northwestern.edu

### **Targeting Gli2 Mediated Transcription in Osteosarcoma Tumor Growth and Bone Destruction**

Erik Beadle, Vanderbilt University

erik.p.beadle@vanderbilt.edu

### **Menin and EWS/FLI1 Activate Serine Biosynthesis via ATF4 in Ewing Sarcoma**

Jennifer Jimenez, University of Michigan

jejimene@umich.edu

### **Targeting BRAF-, RAS-, and PIK3CA-mutations in Thyroid Cancer**

Madison Rose, University of Colorado Anschutz Medical Campus

madison.m.rose@cuanschutz.edu

### **Uncovering the role for transcribed ultra-conserved regions as long non-coding RNAs in glioblastoma**

Myron K. Gibert Jr., University of Virginia

mkg7x@virginia.edu

### **The Effect of Dnmt1 Manipulation on Intestinal Tumorigenesis in Mice**

Nicole Vander Schaaf, Van Andel Institute Graduate School

Nicole.Vanderschaaf@vai.org

### **Protease-activated receptor-2 biased agonism in ovarian cancer metastasis**

Nisha Pawar, University of Maryland Baltimore

npawar@umaryland.edu

### **Locus-specific determinants of DNA damage response in early B cells**

Rachel Johnston, Washington University in St. Louis

r.johnston@wustl.edu

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### **Contribution of ER $\pm$ /PR Crosstalk to Endocrine Therapy Resistance in Breast Cancer**

Rosemary Huggins, University of Chicago

rhuggins@uchicago.edu

### **Transcriptional diversity and bioenergetic shift in human breast cancer metastasis revealed by single-cell RNA sequencing**

Ryan Davis, University of California, Irvine

rtedavis@uci.edu

### **Methylation patterns of circulating cell-free DNA to detect treatment related organ specific adverse effects in esophageal cancer patients**

Sarah Martinez Roth, Georgetown University

sam362@georgetown.edu

### **Investigating the mechanism of ADAR1-dependency in triple-negative breast cancer using proximity labeling and CRISPR screen**

Sua Ryu, Washington University in St. Louis

suaryu@wustl.edu

### **VHL-Dependent Metabolic Plasticity in Clear Cell Renal Cell Carcinoma Mediated by Chemerin-Driven Suppression of Fatty Acid Oxidation**

Sze Kiat Tan, University of Miami Miller School of Medicine

sxt582@med.miami.edu

### **The role of Plasminogen Activator Inhibitor Type-2 (PAI-2) in modulating venous thrombus resolution**

Tierra Johnson, University of Maryland, Baltimore SOM CVID

tjohnson@som.umaryland.edu

### **Dual Shp2 and $\beta$ -catenin deletion disrupts of liver homeostasis and tumorigenesis**

Wendy S. Chen, University of California, San Diego

wsc011@ucsd.edu

### **Deciphering the nucleosome interactome**

Aleksandra Skrajna, PhD, University of North Carolina at Chapel Hill

skrajna@email.unc.edu

### **Can centrosome abnormalities lead to cancer?**

Annabel Alonso, PhD, University of California, Davis

aaalonso@ucdavis.edu

### **Tunable polymorphic imprinting of a non-coding RNA, nc886**

Brittany Carpenter, PhD, Van Andel Research Institute

Brittany.Carpenter@vai.org

### **Lymphotoxin Beta Receptor in Lymphatic Endothelial Cells Regulates Treg Migration**

Christina M. Paluskiewicz, PhD, University of Maryland Medical Center

cpaluskievicz@som.umaryland.edu

### **Keeping KRAS in CHEK: defining combination targeted therapies for pancreatic cancer**

Jennifer Klomp, PhD, University of North Carolina at Chapel Hill

jklomp2@ad.unc.edu

### **Glucan phosphatase laforin regulates central carbon metabolism of non-small cell lung cancer (NSCLC)**

Jessica K. A. Macedo, PhD, University of Kentucky

jkar224@uky.edu

### **Contributions of the Epstein-Barr Virus BHLF1 Locus to Viral Latency and Reactivation**

Lena Lupey-Green, PhD, Penn State College of Medicine

llupeygreen@pennstatehealth.psu.edu

### **Uncovering the dynamic influence of histone lysine demethylases in therapy-induced phenotype switching and cell heterogeneity in BRAFV600E-mutant melanoma cells**

Mehwish Khaliq, PhD, University of Michigan

mehwishk@umich.edu

### **Structural and Functional Analysis of Inflammatory Enzyme Complexes in Synthetic Nanodisc Lipid Bilayers**

Michael Goodman, PhD, University of California, Davis

mcgoodman@ucdavis.edu

### **Impact of reversing an epithelial-to-mesenchymal transition program on heme metabolism and macrophage function**

Michelle Williams, PhD, University of Colorado

michelle.m.williams@cuanschutz.edu