



# Twelfth Annual Cancer Research Day

**The Morris Inn, Smith Ballroom**

9:00am – 1:00pm **Poster Session**

1:15pm – 3:00pm **Trainee Oral Presentations**

Session I moderated by George Gray

1:15pm **Julia Florek Carlson** (Stack), *"Expression and Regulation of Human Endogenous Retrovirus K (HERV-K) in Ovarian Cancer"*

1:35pm **Koryn Isa** (Hillard), *"An Integrated Dual Multiplexing Analysis of the Tumor Immune Microenvironment of Rare Ovarian Granulosa Cell Tumors Identified Predictors of Recurrence and Potential Therapeutic Targets"*

1:55pm **Megna Panchbhavi** (Datta), *"Perivascular CNS Fibroblasts are Associated with Increased Tumor Stiffness and Poor Immunotherapy Response in Glioblastoma Patients"*

2:15pm **Gaeun Kim** (Wang), *"Tracking Extracellular and Intracellular Journey of Exosomes using Fluorescence Chiral NPs: Cellular Uptake and Cargo Release"*

2:35pm **Tiger Shi** (Chang), *"Cancer Companion Diagnostics via Quantification of Enzymatic Small Extracellular Vesicles (sEVs) using Magnetic Nanoporous Membrane (MNM)-based Activity Assay"*

*- Carmichael Dining Room*

Session II moderated by Sarah Nano

1:15pm **TJ Walsh** (Li), *"AR Activation Upregulates 11 $\beta$ -HSD2 Expression in Prostate Cancer Cells"*

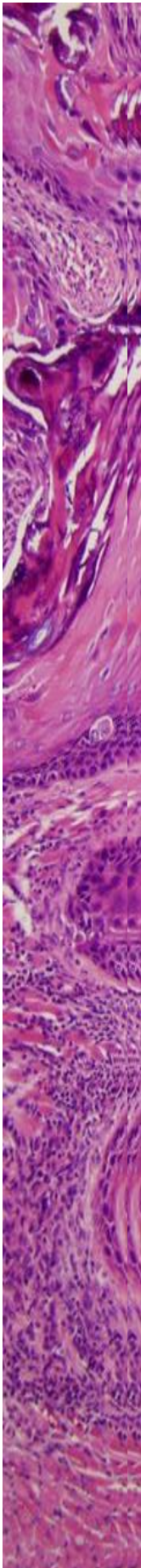
1:35pm **N. Keilany Lightsey** (Hanjaya-Putra), *"Oscillatory Shear Stress Modulates Lymphatic Progenitor Cells Maturation into Lymphatic Vessels with Anti-Cancer Phenotypes"*

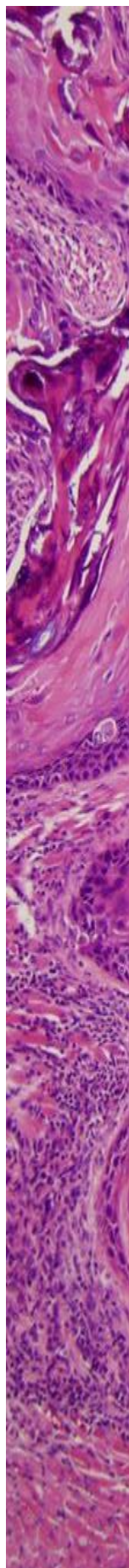
1:55pm **Alice Burchett** (Datta), *"Studying the Interaction Between Macrophages and Solid Stress in Novel Models of the Tumor Immune Microenvironment"*

2:15pm **Gena M. Dominique** (Stack), *"Gut's all the Fuss? Combatting Ovarian Cancer with Healthy Gut Microbiota: A Pilot Study"*

2:35pm **Verodia Charlestin** (Littlepage), *"Regulation of Cellular Metabolic Stress by Aquaporin-7 in Breast Cancer"*

*- Joyce Dining Room*





Session III moderated by Papa Kobina "Kobby" Van Dyck

- 1:15pm **Mark Jantz** (von Holzen), *"A Novel Isoform Selective Hsp90b Inhibitor to Combat Esophageal Adenocarcinoma"*
- 1:35pm **George Ronan** (Zorlutuna), *"Chronic Off-Target Cardiotoxicity of Doxorubicin is Mediated by Pathological Changes in Paracrine Signaling and miRNA Prevalence"*
- 1:55pm **Ziyu Zeng** (Lu), *"Unveiling NEPC Origins and Vulnerabilities Through Single-cell Analysis and Drug Screening"*
- 2:15pm **Jiaqi Ma** (Baker), *"Specific T cell Recognition of a Public Neoantigen Derived from the Driver Oncogene PIK3CA"*
- 2:35pm **Ayene Ashenef** (Lieberman), *"Inductively Coupled Optical Emission Spectroscopy(ICP-OES) as an Alternative Tool for Quality Assessment of Platinum-containing Anticancer Drugs"*

- Hesburgh Dining Room

3:15pm – 4:40pm **Faculty Speaker Session**

- 3:20pm – 3:45pm **Jianneng Li**, Archibald Assistant Professor, Department of Biological Sciences, *"An Unexpected Mechanism of Enzalutamide Antitumor Activity in Prostate Cancer"*
- 3:45pm – 4:10pm **Pinar Zorlutuna**, Professor, Aerospace and Mechanical Engineering, *"Engineered Tissue Models to Study the Role of Aged-ECM in Breast Cancer"*
- 4:10pm – 4:15pm **Pinar Zorlutuna** and **Julie Morrissey**, Professor, University College Dublin *"Cell-Cell, Stanza-Stanza"*
- 4:15pm – 4:40pm **Cathal Seoighe**, Professor of Bioinformatics and Scientific Director of the SFI Centre for Research Training in Genomics Data Science, University of Galway, Ireland. *"Methods, Computational Tools and Insights into Cancer Somatic Mutation Profiles"*

4:40pm – 5:05pm **Jeffrey F. Rhoads**, Vice President for Research

5:05pm – 6:35pm **Keynote Address and Award Presentations**

Keynote Address: **Nicholas J. Petrelli, M.D., FACS**, Bank of America Endowed Medical Director, Helen F. Graham Cancer Center & Research Institute, ChristianaCare, *"Cancer Care Statewide: The Impact of Clinical & Translational Cancer Research"*

Dr. Michael Rodriguez Memorial Award presentation Camilla M. Shaw, RN,CN-BN, Manager, Diagnostic Imaging, Saint Joseph Health System

Trainee Poster Awards

6:35pm – 8:05pm **Reception**

~ Free and Open to the Public ~