Recently awarded Massey Cancer Center Pilot Projects:

### 2017

- **Xiang-Yang Wang, Ph.D.**
  - Xianjun Fang, Ph.D.
  - "Reprogramming the fatty acid oxidation metabolic pathway to improve cancer immunotherapy"

- **M. Imad Damaj, Ph.D.**
  - Shijun Zhang, Ph.D.
  - David Gewirtz, Ph.D.
  - "NLRP3 Inflammasome As a Target for the Treatment of Chemotherapy-induced peripheral neuropathy (CIPN): Studies in Animal Models"

- **Devanand Sarkar, Ph.D.**
  - Shobha Ghosh, Ph.D.
  - "Role of macrophage AEG-1 in regulating inflammation in hepatocellular carcinoma (HCC)"

- **Francesco S. Cell, M.D., MHSc**
  - Shanshan Chen, M.S., Ph.D.
  - Egidio Del Fabbro, M.D.
  - "Maladaptive brown adipose tissue activity in human patients with cancer"

### 2016

- **Chuck Harrell, Ph.D.**
  - Mikhail Dozmorov, Ph.D.
  - "Development and RNA Sequencing Analysis of Patient Derived Xenograft Breast Cancer Brain Metastasis Models"

- **Daniel H. Conrad, Ph.D.**
  - Harry D. Bear, M.D., Ph.D.
  - "Myeloid derived suppressor cells are switched to immunostimulatory antigen presenting cells by the DNA methyltransferase inhibitor decitabine"

- **Hisashi Harada, Ph.D.**
  - Antonio Faber, Ph.D.
  - "The efficacy of a BCL-2 inhibitor venetoclax for SCLC treatment"

- **Joseph Landry, Ph.D.**
  - Paula Bos, Ph.D.
  - "Use of a Novel Combinatorial Immunotherapy to Treat Poorly Immunogenic Tumors"

- **Nicholas Farrell, Ph.D.**
  - John Ryan, Ph.D.
  - "Development of an Anti-metastatic Platinum for Breast Cancer Treatment"

- **Elisabeth Weiss, M.D.**
  - Antonio Abbate, M.D., Ph.D.
  - "Early detection of markers of cardiac toxicity following thoracic radiotherapy"

- **Masoud Manjili, Ph.D.**
  - Xiang-Yang Wang, Ph.D.
  - "Characterization of novel APC as potential cancer vaccine"

- **Maria Thomson, Ph.D.**
  - Jessica LaRose, Ph.D.
  - Melanie Bean, Ph.D.
  - "Addressing Modifiable Breast Cancer Risk Factors with Project CONECT [Connect Online to Engage Change Tool]"

- **Andrei Ivanov, Ph.D.**
  - Jennifer Kobinski, Ph.D.
  - "Roles of a cytoskeletal scaffold protein, anillin, in breast cancer cell invasion and metastasis"

- **Robert Tombes, Ph.D.**
  - Sarah Rothschild, Ph.D.
  - Seth Corey, M.D.
  - "Generation of Acute Myeloid Leukemia Models in Zebrafish"

### 2015

- **Antony Faber, Ph.D.**
  - Brad Windle, Ph.D.
  - "A novel and potent targeted therapy for MYCN-amplified neuroblastoma"

- **Amir A. Toor, M.D.**
  - Jason C. Reed, Ph.D.
  - Roy T. Sabo, Ph.D.
  - "Mononuclear Cell Mass/Density Spectrum Following Stem Cell Transplantation: Predicting Clinical Outcomes"

- **Iain Morgan, Ph.D.**
  - Kristoffer Valerie, Ph.D.
  - "Determining the role of homologous recombination in human papillomavirus DNA replication"

- **Tara Albrecht, Ph.D.**
  - Danielle Shafer, D.O.
  - Jamie Sturgill, Ph.D.
  - R.K. Elswick, PhD.
  - "Physical Activity as a Self-Management Approach to Improve Health Outcomes in Acute Leukemia"

### 2014

- **Shijun Zhang, Ph.D.**
  - Steven Grant, M.D.
  - "Development of thalidomide/curcumin hybrids for multiple myeloma"

- **Senthil Kumar Radhakrishnan, Ph.D.**
  - Charles Clevenger, M.D., Ph.D.
  - "Mechanism of Prolactin Receptor Retrotranslocation"
Andrew J. Barnes, Ph.D.  
Caroline O. Cobb, Ph.D.  
Thomas E. Eissenberg, Ph.D.  

“Investigating Effects of Regulating E-Cigarette Flavoring and Modified Risk Messages on Measure of Abuse Liability”

Xiang-Yang (Shawn) Wang, Ph.D.  
Yan Zhang, Ph.D.  

“Molecular antagonization of myeloid cell-associated CD204 to enhance cancer immunotherapy”

Bhaumik B. Patel, M.D.  
Umesh R. Desai Ph.D.  

“Synthetic, Non-Saccharide, Glycosaminoglycan Mimetics Selectively target Colon Cancer Stem Cells”

Ross Mikkelsen, Ph.D.  
Sundaesan Gobalakrishnan, Ph.D.  

“Chemo- and radiosensitization of solid tumors by nitric oxide synthase recoupling and normalization of tumor vasculature”

Charles E. Chalfant, Ph.D.  
Margaret E. Park, Ph.D.  
Kazuaki Takabe, M.D., Ph.D.  

“Ceramide kinase, UVRAG, and ceramide-1-phosphate: The triumvirate of breast cancer metastasis?”

Huiping Zhou, Ph.D.  
Phillip B. Hylemon, Ph.D.  

“Bile acids and S1P signaling in cholangiocarcinom”

Shirley Taylor, Ph.D.  
James P. Bennett, Ph.D.  

“Mitochondrial dysfunction in human cancers mutant in isocitrate dehydrogenase, succinate dehydrogenase or fumarate hydratase”