

THE PEACHEY EFFECT

The Official Newsletter of The Catherine Peachey Fund



A Note of Gratitude from Stephanie Rufenbarger Leshner, Program Manager, The Catherine Peachey Fund:

Friends, we are only halfway through 2022, but are already making bold gifts and moving breast cancer research forward in Indiana. As I write this, plans are well underway for our 8th Annual Wine Tasting with Peachey. I am thrilled with the research that we are funding and the impact that we are making. It energizes me to do even more! Peachey Fund supporters are the best and together we make a great team. To borrow a phrase that I love from John F. Kennedy, **“We do these things not because they are easy, but because they are hard.”**

To stay up to date on Peachey news all year long, find us at heroesfoundation.org/the-catherine-peachey-fund/.

What's Happening in Research



\$100,000: Metabolic Regulation of Breast Cancer Metastasis by Aquaporin-7, Led by Laurie Littlepage, Ph.D. at the Harper Cancer Research Institute at the University of Notre Dame

Therapeutic resistance of metastatic tumors is responsible for 90 percent of deaths among breast cancer patients. Over many years and trials, scientists have developed therapeutics to stop this endpoint, but without the desired level of success. Dr. Littlepage will use the \$100,000 to procure a powerful dissection microscope, a microplate

reader (used to detect various microscopic events in samples) and AQP7 knockout mice. These special mice have been genetically modified to deactivate the gene associated with the Aquaporin-7 protein. The \$100,000 gift makes it possible for Dr. Littlepage to pursue more success and start a new, long-awaited chapter in treatment breakthroughs. The data her lab generates will serve as preliminary data to support both RO1 and DOD BCRP submissions.

New Disbursements from the Catherine Peachey Breast Cancer Prevention Fund, Principal Investigator, Tarah J. Ballinger, MD, Indiana University School of Medicine



- **\$100,000: Exercise in Patients at Increased Risk of Breast Cancer** Observational evidence links physical activity to breast cancer incidence, but mechanisms for this are unknown. Lack of prospective clinical data limits the ability to make exercise prescriptions part of clinical care for patients at increased risk for breast cancer. In cooperation with the NCI-DCP ClinCAP clinical trials group, Dr. Ballinger and team are developing a concept studying low or high dose exercise compared to usual care. To get this trial funded nationally, they need to

gather additional preliminary data. They plan to obtain benign breast tissue from the Komen Tissue Bank and determine feasibility of measuring Ki-67, which will be the primary endpoint of the above trial. They will also enroll patients to an exercise intervention in the prevention setting to support their ability to do this work.

- **\$25,000:** Racial Disparities in Cascade Testing Next Steps
- **\$20,000:** Role of Progesterone Signaling in the Pathogenesis of BRCA1 Associated Breast Cancer
- **\$2,400:** Human Fatty Acid Synthase (FAS) Expression in Breast Cancer Development

THE PEACHEY EFFECT JUNE 2022



\$10,000: Continuation of Application of Emerging Proteomics Technologies to Breast Cancer, Led by Amber L. Mosley, Ph.D. at the Indiana University School of Medicine

In 2020, the Catherine Peachey Fund's gift of \$20,000 allowed the Mosley lab to investigate whether a unique process called thermal proteome profiling could be a new tool in the fight against breast cancer drug resistance. This additional support will cover the team member's time and consumables for three additional steps of analysis. When combined, these three steps of analysis will create a foundation for expanding this work into different breast cancer types and possible early detection of molecular changes in cells that lead to cancer and drug resistance.

Save the Dates



Wine Tasting With Peachey 2022

Our 8th Annual Wine Tasting with Peachey event is coming up on **Monday, June 20**, at the Indiana Design Center in Carmel, IN at 6:00 p.m. This year's event features an art show and auction, wine from Peace Water Winery, live music by Shane Rodimel, small bites by Cater Me Café, and updates from Peachey Fund grantees.

Can't join us in person? All of our event details, including our online auction and ticket sales, can be found at: www.givergy.us/peachey2022



A Peachey Celebration at Penn & Beech Candle Co. in Carmel, IN

Help us celebrate Breast Cancer Awareness month, by joining us on **Tuesday, October 4**. 20% of all retail sales from the entire day will go to the Catherine Peachey Fund. It's our job to get all of our friends, family, stakeholders, volunteers and fans to visit the store that day to buy and/or make candles and gifts. The more people we bring in, the more money we will raise! Reservations are strongly encouraged for groups of all sizes if you plan to pour candles. Make online reservations or browse product offerings at pennandbeech.com.

