

# Wood Hudson Cancer Research Laboratory

## *Lab Notes*

Spring 2020

*The Conquest of Cancer Through Research*

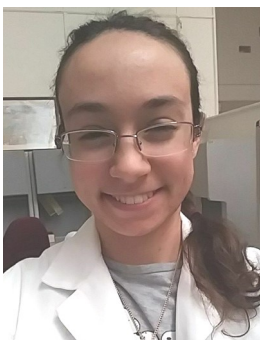


### Wood Hudson Thanks the I Have Wings Breast Cancer Foundation

Wood Hudson thanks the I Have Wings Breast Cancer Foundation for their support of breast cancer research in our labs. One of the new projects being supported by this \$5,000 grant is a study of the metabolism of metastatic breast cancer cells. Anna Oliverio, a Junior at Thomas More University, is working on this project.



Anna writes: "I grew up on the eastside of Cincinnati, and have always possessed a zeal for learning. Currently, I am nourishing my passion for learning in the various subjects that make up the liberal arts education provided by Thomas More University. More than anything though, I enjoy subjects related to cellular and molecular biology, and am working towards a concentration in cellular and molecular biology in addition to my Biology major. My career goals for the future are to fervently participate in the field of biomedical research, and hopefully one day have the opportunity to also teach and share what I know and love with others.



Anna Oliverio

The project that I am specifically working on at Wood Hudson focuses on breast cancer, and how alterations in the metabolic processes in breast cancer cells can allow these cells to achieve higher growth rates and sustainability in conditions normal cells cannot. This work is a piece of a larger project in which Wood Hudson scientists seek to investigate biosynthesis of the amino acid serine in breast cancer cells and tissues. This is one of the metabolic processes that are increased in some breast cancer cells, and is important in providing the resources these cancer cells need to maintain higher growth rates. Of utmost importance is the possibility that inhibition of this biosynthetic process will provide a new treatment option for patients diagnosed with triple negative breast cancer who cannot be offered the same drug targeted therapies that provide increased survival rates to patients with estrogen receptor positive and human epidermal growth factor receptor 2 positive breast cancers.

So far, participating in the Wood Hudson Cancer Research Laboratory Undergraduate Research Education Program (UREP) has been beneficial in exposing me to the world of biomedical research and helping me to begin to build a foundation to achieve my future career goals."

I Have Wings Breast Cancer Foundation will have their major fundraiser "Bling and Brew" on Friday, April 3rd, at Receptions Banquet Center in Erlanger, KY. For further information, check <http://blingbrew2020.givesmart.com>. I Have Wings Breast Cancer Foundation helps meet the needs of breast cancer patients. We are honored to have their support, and urge our friends to support "Bling and Brew".

### Presentation of Gastric Cancer Research On Hold!

An abstract entitled *Role of Pak 1 and TGF $\alpha$  in adenocarcinoma of the stomach and gastro-esophageal junction* was accepted for presentation at the 111<sup>th</sup> Annual Meeting of the American Association for Cancer Research, which was planned to be held in San Diego, April 24-29. This project was conducted by Wood Hudson senior scientists and UREP participants, including Michael Parritt, a Senior at Xavier University. However, the AACR Board of Directors has made the decision to cancel this meeting, due to various factors and developments relating to the coronavirus (COVID-19) outbreak. This includes travel restrictions both international and domestic, and concern for the health, safety, and security of all Annual Meeting attendees and the patients and communities they serve. A rescheduled meeting is being planned for later this year.

## Grant Received from Horizon Community Funds of Northern Kentucky



Wood Hudson thanks the Horizon Community Funds of Northern Kentucky's Council of Trustees for a \$5,000 grant to fund the Network for Good Jumpstart Program. Network for Good is a donor-management system. Nonprofits trust Network for Good to aggregate valuable donor data and successfully target, retain and engage donors with easy-to-use donor management software. We anticipate that the Jumpstart Program will

jumpstart development at Wood Hudson!

Adrian Guy, a new Research Assistant at Wood Hudson, is spearheading the project by meeting with Network for Good consultants, attending webinars, and entering data into the donor management system. She is also working on publicity for Wood Hudson's fundraising events and editing a manuscript on ovarian cancer. Adrian has a B.S. in Chemistry from Utah State University. She and her husband Michael have five children, and Adrian has been a stay-at-home mom for 18 years. Before her employment at Wood Hudson, Adrian was a volunteer in a Northern Kentucky University (NKU) biochemistry laboratory for 1 ½ years and a substitute school teacher for three months. Recently, Adrian represented Wood Hudson as a volunteer judge of middle school projects at the Science and Engineering Fair of Northern Kentucky. The event took place February 22, 2020 at NKU. Adrian was impressed with the fascinating projects and the enthusiastic, capable presenters!



*Adrian Guy*

We thank the Horizon Community Funds of Northern Kentucky for what we anticipate will result in transformative changes at Wood Hudson. We also welcome Adrian Guy and thank her for her contributions to our organization. Welcome onboard, Adrian!

## Thank You, St. Thomas School and Students for Glassware Donation



*Dr. Julia Carter and Ms. Lyndia Myers in one of the labs at Wood Hudson Cancer Research Laboratory*

Lyndia Myers is a 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade science teacher at St. Thomas School, Ft. Thomas KY. The two new priests at St. Thomas, Father Ross Kelsch and Father Ray Enzweiler suggested that unused extra items in the science classroom be donated. Debbie Wilshire, Lyndia's sister in law, suggested Wood Hudson Cancer Research Laboratory. Fr. Kelsch, Fr. Enzweiler, and Principal Deborah Flamm agreed and gave the go ahead for the glassware donation. St. Thomas 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> grade students visited Wood Hudson Cancer Research Laboratory for a tour last year. A number of St. Thomas students have volunteered at the Spaghetti Dinner

Fundraisers held at St. Andrew's Episcopal Church to benefit Wood Hudson. We thank the students from Ft. Thomas schools for their service and donation of time. We also thank Fr. Kelsch, Fr. Enzweiler, Ms. Flamm, and Ms. Myers for this important and useful donation of laboratory glassware to our Laboratory – as everyone knows glassware, laboratory and otherwise does not last forever and this donation replaces many broken pieces in our various labs.



*Wood Hudson Cancer Research Laboratory is very grateful to St. Thomas School in Ft. Thomas for the donation of laboratory glassware.*

### A Special Thank You to Mailwise Solutions

The students and staff at Wood Hudson Cancer Research Lab would like to take this opportunity to acknowledge a longtime supporter of the Lab. A special thank you is given to Mr. William Holt, owner of Mailwise Solutions located in Crescent Springs, KY. For the past several years, Mr. Holt has been kind enough to provide professional assistance with mailing preparations of our LAB NOTES, a report sent to all our supporters in the Spring and Fall of each year. Mailwise Solutions provides the address labelling and tabbing for more than 5000 LAB NOTES sent at each mailing. Everyone at Wood Hudson, especially the mailing committee is so appreciative of this service. Mr. Holt has several family members and friends who have participated in the Undergraduate Research Education Program (UREP). Since UREP has provided such a positive impact on their careers, Mr. Holt wanted to give back to the Lab. Again, a heartfelt thank you for this service and for his continued support of Wood Hudson and UREP.



## Flying Pig Fundraising Event May 2<sup>nd</sup> and 3<sup>rd</sup>, 2020

Wood Hudson is proud to be an official Flying Pig Charity again in 2020. Help us raise money through this exciting event!

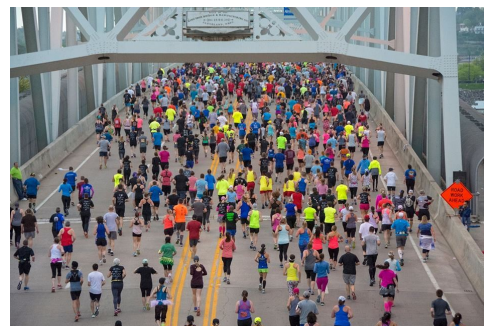
**Run the Flying Pig!** With our charity discount code (call 859-581-7249 for the code), the Flying Pig will reduce your entrance fees by 30%, and then, you donate that 30% to Wood Hudson. You also get a dri-fit shirt from Wood Hudson. Race days are May 2<sup>nd</sup> and 3<sup>rd</sup>.

**Pledge** money to a runner. Not everyone can run a marathon! Help runners raise as much as possible for cancer research.

**Buy raffle tickets.** Each costs \$5, and all that \$5 goes directly to Wood Hudson. If you win, you get \$5,000 and Wood Hudson also gets \$5,000. You can buy tickets from a WH employee or online ([www.piggestraffle.com](http://www.piggestraffle.com)). Easy, fun, and hopeful way to donate to cancer research. Buy many!

**Sponsor** Wood Hudson. Various levels of tax-deductible sponsorships are *General \$1-\$99*, *Bronze \$100*, *Silver \$250*, *Gold \$500*, *Platinum \$1,000*, and *Titanium \$2,500+*. Your company logo will be featured on the Wood Hudson runners' shirt and you will be recognized in our newsletter, on our website, and on our Facebook page.

If you remember being a **volunteer** from previous years, consider donating \$20 to the Lab. For the several hours of difficult work the volunteers did, plus the cost of parking downtown, the time and money is much better spent when you can donate to the Lab outright. Thank you!



## Jack Rabbit Running Shoes store in Newport Hosts Event



Thank you to Jack Rabbit, 317 Monmouth St., Newport, for hosting an event to promote Wood Hudson in the Flying Pig! Saturday, March 21, 2020, Wood Hudson will be at Jack Rabbit signing up runners for the Flying Pig, selling raffle tickets, and talking about our mission. It is just this kind of public involvement that makes cancer research possible at Wood Hudson. Hope to see you there! Thank you Jack Rabbit!

### Wood Hudson Online

- Wood Hudson has a new, active Facebook page. Search for Wood Hudson Cancer Research Laboratory. Like, Follow, and Share with your Facebook Friends.
- Thank you to Bob Pullman who is updating our website, [woodhudson.org](http://woodhudson.org).
- On our website, you can donate with PayPal, and now you can also choose to donate through Network For Good. Go to [woodhudson.org/donate](http://woodhudson.org/donate).



**Wood Hudson  
Cancer  
Research  
Laboratory**

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www.woodhudson.org**

**Working towards The Conquest of Cancer  
Through Research**



**Scan the QR code with your Smartphone to  
be directed to our “Donate Page” where you  
can make a donation to Wood Hudson!**

Wood Hudson Cancer Research Laboratory  
is a 501( c) (3) not-for-profit organization  
and a Guidestar Gold Level Charity!

### **WAYS TO HELP THE WOOD HUDSON CANCER RESEARCH MISSION**

**Please support our Flying Pig Fundraiser with a donation!**

**Sponsors:** Levels range from: **General \$1-\$99, Bronze \$100-\$249, Silver \$250-\$499, Gold \$500-\$999, Platinum \$1000-\$2499, Titanium \$2500+**

**Runners:** Runners who designate Wood Hudson as their charity of choice receive a Discount Code to enter when they sign up at [flyingpigmarathon.com](http://flyingpigmarathon.com). Please contact the Lab at (859) 581-7249 to get the discount code.

**Pledges:** Runners for Wood Hudson can collect pledges from other persons/companies—and all the pledges are mailed directly to Wood Hudson.

**Raffle Tickets:** Tickets are available at Wood Hudson for \$5 each—for chances to win \$5,000 cash prize, with another \$5,000 donated to the charity that sold the winning ticket. Second and Third place prizes are also available; see previous page. Drawing will be held on May 3rd (see [flyingpigmarathon.com](http://flyingpigmarathon.com)).

**General Donations:** You can mail in your donation with the enclosed envelope, or scan the above QR code with your smartphone to take you to the donate page on the Wood Hudson website.

### **Wood Hudson Mission Statement**

Wood Hudson Cancer Research Laboratory, Inc. is a professional, independent, not-for-profit, publicly supported, research institute dedicated to the discovery of new knowledge regarding the causes, diagnosis, treatment, and prevention of cancer. Because the Laboratory is a not-for-profit enterprise, no organization or individual profits financially from its operation, and all discoveries resulting from ongoing research are freely given to the scientific and medical community through promptly reported peer-reviewed publications.

**Wood Hudson approaches the cancer problem three ways:**

- 1) study of clinical cases** and experimental models of cancer to learn new methods of cancer prevention, diagnosis, prognosis, and treatment;
- 2) study of environmental causes** of cancer, particularly food and drinking water chemicals, and
- 3) provision of training and “hands-on” research experience** for tomorrow’s scientists and physicians through its Undergraduate Research Education Program (UREP).