



Report

Summer 2022



\$33,000 Grant Received from the Josephine S. Russell Charitable Trust

Wood Hudson Cancer Research Laboratory thanks the **Josephine S. Russell Charitable Trust** for a \$33,000 grant for the purpose of Research Education. The grant was received May 1st. The funds from this generous grant have been added to the continued funding received earlier this year from the **R.C. Durr Foundation** and the **Chemed Foundation** to allow us to once more have students return to “hands on” research activities. So far, these funds have allowed us to recruit an experienced Cancer Research Biologist, Dr. Erik Bey, to help mentor students and to re-establish the mammalian cell culture teaching laboratories, which were closed due to COVID on March 13th, 2020. They have also allowed us to work with 12 Undergraduate Research Education Program students, so far, this year. The Trustees, UREP students and Staff thanks these local foundations for enabling progress to be made on our Undergraduate Research Education Program, and on reopening the laboratory facilities for “hands-on” student education.

The R. C. Durr Foundation, Inc.



The heart of Northern Kentucky



Wood Hudson Welcomes Dr. Erik Bey as Senior Staff Scientist



Dr. Erik Bey

Erik Arnold Bey, Ph.D. has recently joined Wood Hudson Cancer Research Laboratory as a Senior Staff Scientist. From 2019-2022, Dr. Bey was an Associate Professor (Research Track) in the Department of Biochemistry and Molecular Biology at Indiana University Purdue University Indianapolis (IUPUI). He also held positions at West Virginia University School of Pharmacy and Cancer Biology Training Program as an Assistant Professor (2011-2019) and was an Instructor in the Cancer Center at the University of Texas Southwestern Medical Center at Dallas (UTSW, 2008-2011) .

Dr. Bey is eager to work with the students in Wood Hudson’s Undergraduate Research Education Program. He looks forward to using his training and experience in Cell and Molecular Biology, Cancer Biology, Pharmaceuticals, Drug Delivery and Nanomedicine to enhance the students’ experience in Cancer Research at Wood Hudson.

Dr. Bey’s research interest includes understanding the role that oxidative stress regulatory genes play in tumor biology, specifically in lung and breast cancers. He also has interest in stem cell biology, radiation biology and metastases. Dr. Bey has publications in a variety of cancer models including lung, breast, pancreatic, head and neck and prostate. Dr. Bey is currently on the editorial board for Nature’s Scientific Reports and is an Associate Editor for Frontiers in Oncology.

The Wood Hudson Cancer Research Laboratory Board of Trustees, students, and staff enthusiastically welcome Dr. Bey to our institution, and look forward to many years of successful partnership and scientific collaboration with him.

Experienced Scientists “Visit” UREP Students

Thanks to Zoom, the Wood Hudson Cancer Research Laboratory Undergraduate Research Education Program (UREP) students are meeting with and learning from experienced scientists. Larry Douglass, M.D., a Pathologist and Director of Pathology at Wood Hudson, gave a lecture on the human history of cancer and research “breakthroughs” over the ages. Ron Snyder, Ph.D., a Genetic Toxicologist, who has 30 years’ experience in the pharmaceutical industry, explained mandatory genetic tests for drug safety. Diane Gilb, M.S., a Physiologist, explained the basic structure of tissues – students will never feel the same way about eating a sandwich! Erik Bey, Ph.D., a Molecular Biologist, discussed the molecular basis for the immortal cancer cell. James Deddens, Ph.D., Professor of Mathematics, University of Cincinnati, reviewed with the students the statistical tests used routinely in biomedical research to aid their understanding of the scientific papers they are reading for their research projects. Most recently, Zachary Taylor, Ph.D., Professor and Acting Chair of Biology at Thomas More University, spoke to the students on Oncogenes and Tumor Suppressor Genes.



*Top, left to right: Larry Douglass, M.D., Ron Snyder, Ph.D., Diane Gilb, M.S.
Bottom, left to right: Zachary Taylor, Ph.D., Erik Bey, Ph.D., James Deddens, Ph.D.*

Each of the students is busy designing a research project to answer an unanswered provocative question in cancer. Meetings with experienced scientists and physicians will go on each week until early August. Combined with text book and online readings, videos on research techniques, and Journal Club discussions of recent scientific papers, these meetings are giving UREP undergraduates an idea of the excitement of biomedical research and how to do it. Encouraging undergraduates to choose careers in science and medicine is one part of the three-part Wood Hudson Cancer Research Laboratory mission. More than 350 students have participated in UREP. Many of these former students are now physicians and other health care providers, or research scientists and teachers enhancing the infrastructure of Tristate communities, and that of other communities throughout the US.

Eleven Undergraduate College Students Tackle Provocative Questions in Cancer



Top, left to right: Hannah Stanley, Caden Togrul, Jonathan Scherff, Megan Poynter, Kaylee Ferguson, Sophie McVey

Bottom, left to right: Alex Evangelou, Brody Johnson, Caroline Klug, Heng Yang, Erin Olakanmi

Cancer research has made great strides in developing new treatments for cancer patients. These treatments are usually less toxic and more effective than those in previous decades. Usually, patients’ lives are extended, and sometimes cures are achieved. However, in the US alone there are 1.9 million new cancer cases and 609,369 cancer deaths predicted for 2022. Since 2011, the National Cancer Institute has published several requests for applications to propose research projects that will address “Provocative Questions in Cancer”. There currently are no answers to these questions.

This summer, 11 Wood Hudson Undergraduate Research Education Program students from 6 Universities are trying their hand at writing a research proposal to answer a Provocative Question of their choice. We send them to do their task armed with background information from two textbooks, lectures from experienced scientists and physicians, research articles from the current scientific literature and lots of “how to” technical videos on lab techniques found on the internet. By August, they will prepare a written research project proposal and then give a lecture on their proposed research. Who knows what these brilliant young minds will unearth!

Wood Hudson 21st Annual
Car Show

**Saturday,
August 13, 2022**

Rain or Shine!

Join us at Hofbrauhaus—Newport

**** 200 Third Street, Newport, KY**



OPEN TO ALL MAKES
of cars and trucks!

Class I: Pre-1981

Class II: 1981-2004

Class III: 2005 and
newer

Veterans Trophy



Registration from 9-11:30 AM

(\$20 Entry Fee)

Awards 3 PM



All proceeds benefit

**Wood Hudson
Cancer
Research
Laboratory**



**Super Door Prizes!
Music by DJ Ray!
Huge Bourbon Raffle
50/50 split the pot**

Hosted by:



Contact Jack Buecker 513-708-1521 for details

In Memoriam (11/29/21 to 7/01/22)

Memorial and special occasion gifts are used solely to fund supplies for cancer research aimed at prevention, early detection, and treatment. Such research will one day reduce the human suffering associated with cancer.

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Did you know...?

Memorial and special occasion contributions are used to purchase cancer research supplies.

Thank you for helping to make cancer research at Wood Hudson possible through your generous contributions!

**Wood Hudson wishes to thank the following individuals and organizations for their generous contributions to the Lab's research and education programs
11/17/21 to 7/8/22**

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Special Occasion Gifts 11/29/21 to 7/1/22

Anniversary

Hank & Nancy Pogue, 50th

Rob Layton, CPA

Dr. Julia H. Carter & You Friends at Wood Hudson

Lois VonStrohe

Dr. Julia H. Carter

In Honor Of

Dr. Jonathan Bender
Nancy & David Bender

Sally & Mike Muehlenkamp

Elizabeth Allegrini

Birthday

Percy Carter, MBA, PhD
Dr. Julia H. Carter

Fran Pollard

Dr. Julia H. Carter

Christmas

Pat Binder

Dr. & Mrs. Cirilo Galang

*Michele & Neal Bensley
Dr. Julia H. Carter*

Dr. Julia Carter

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Dr. Ron Snyder

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Everyone at Wood Hudson

Charlene Rasche

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Dr. Julia H. Carter*

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Drs. Beverly & Robert Croskery

Barbara & James Whitworth

Leukemia Remission 18th Year

Katie Keeler Wilson
Dale & Martha Renner

Georgia Kinman

Dr. Julia H. Carter

Inge Sexton

Dr. Julia H. Carter

Easter

Gary & Georgia Kinman

Mother's Day

Sandra Galang
Anthony Galang

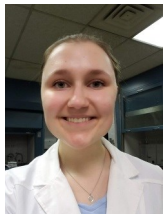
Sights of the Ft. Thomas Corvette Club Car Show



Don't miss the 21st Annual Ft. Thomas Corvette Club Car Show to Benefit Wood Hudson Cancer Research Laboratory! Numerous trophies to be awarded, and lots of cars to see. New this year is a Bourbon Raffle! Join the fun on Saturday, August 13, 2022, at Hofbrauhaus Newport!



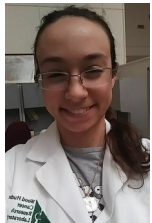
CONGRATULATIONS!!



Congratulations to former UREP students:

Brianna Hoegermeyer, B.S. upon her graduation from Thomas More University. Brianna has begun studies at The University of Cincinnati College of Medicine that will lead to a MD/PhD.

Michael Sundahl, B.S. upon his graduation from Mount St. Joseph University. Michael has been accepted in the Tumor Biology Master's Degree program at Georgetown University.



Anna Oliverio, B.S. a 2021 Graduate of Thomas More University, who is a National Institutes of Health Intramural PostBaccalaureate Research Training Award (IRTA) recipient, upon the recent presentation of her current research at a NIH PostBacc Poster Session.

Top, left to right: Brianna Hoegermeyer, B.S., Michael Sundahl, B.S.

Kevin Murray, M.D. upon completion of his three-year fellowship in Pediatric Gastroenterology at Cincinnati Children's Hospital. Dr. Murray has been invited to join the Pediatric Gastroenterology Staff at Cincinnati Children's Hospital, which is ranked the leading Children's Hospital for Pediatric Gastroenterology in the United States.

Bottom, left to right: Anna Oliverio, B.S., Kevin Murray, M.D. pictured here as a UREP student

Thanks to All Who Supported the Flying Pig Marathon and Piggest Raffle—\$6,025 raised!



Flying Pig Marathon Raffle Event Raises \$6,025!!

Wood Hudson Cancer Research Laboratory thanks all the donors who bought paper Flying Pig Raffle tickets or who bought Flying Pig Raffle tickets online or who made cash donations to the cause. We also thank the volunteers including our Newsletter Volunteers, Inge Sexton and Georgia Kinman, who were instrumental in encouraging others to purchase Flying Pig Raffle tickets. They were good saleswomen!! The Flying Pig Raffle ticket proceeds were matched by cash donations. Thanks to all who made this fundraising event a success! Wood Hudson Cancer Research Laboratory hopes to be an Official Flying Pig Charity again in 2023!



Wood Hudson Bladder Cancer Research Presented at the 113th Annual Meeting of the AACR

Wood Hudson scientists have been studying prognostic biomarkers for urinary bladder cancer recurrence and survival. Approximately 83,000 Americans will develop urinary bladder cancer this year, and approximately 17,000 Americans will die from this disease. Urinary bladder cancer is the most expensive cancer to treat. Although it is easily removed initially, it often recurs, and therefore requires constant intrusive surveillance. Recent research at Wood Hudson has been studying factors that can be diagnosed at initial surgery that can predict the likelihood of tumor recurrence and risk of future death from this disease. Our research report was entitled "*Prognostic significance of loss of Cathepsin L expression in urinary bladder cancer progression*" (authors included Julia H. Carter, PhD, James A. Deddens, PhD, Michelle C. Robillard, MS, Mariah Dooley, BS, Dan Stelzer, MS, Zachary S. Taylor, PhD, and Larry E. Douglass, MD, from Wood Hudson Cancer Research Laboratory, University of Cincinnati, and Thomas More University). The presentation went online April 8th, the opening day of the 113th Annual Meeting of the American Association for Cancer Research (AACR), and will remain online until July 13th. The abstract of this report will be published online in the journal, *Cancer Research*. A press release on this poster was published April 11th, in the *Journal of the National Comprehensive Cancer Network*, a network of 32 cancer centers. Our hope is that this research will lead to new approaches to alleviate the suffering and reduce the cost associated with urinary bladder cancer.



Currently, there are over 50,000 members of the AACR, and approximately 19,000 attended the in-person meeting in New Orleans, Louisiana, while thousands more attended virtually, including Wood Hudson scientists. Since its founding, the AACR has played a pivotal role at the forefront of new advances in cancer prevention, diagnosis, and treatment.

UREP Student Starts In-Person Research at Wood Hudson



My name is Kimberly Holland, and I am a chemistry student at Mount St Joseph University. Since February 2022, I have been working on my senior research project with Dr Carter and Dr Douglass at Wood Hudson Cancer Research Laboratory. Next year, for my Capstone project, I will be writing a paper, creating a poster, and presenting on the research we are doing here. We are looking at the relationship between EGFR and cathepsin L in bladder cancer. I have learned a lot about immunohistochemistry, and I have gained real world laboratory experience that will benefit me in my future careers. Working in a lab is fun, and I get to do a lot independently. As a student, this has been a new, unique experience for me. Not only has this been a rich learning experience, but it has been a humbling experience as well. The research that is done at Wood Hudson is valuable, and being a part of that has been very meaningful to me.

UREP Student Brianna Hoegermeyer Gives Report at Kentucky Honors Roundtable



Brianna Hoegermeyer, UREP student from 2020-2021 and an honor student at Thomas More University, presented her Wood Hudson project at the Kentucky Honors Roundtable at Murray State University on March 4-5. This conference is a collegiate conference of different college honors programs from around the state. Brianna's project was one of two abstracts accepted from Thomas More University, and one of 48 overall.

Brianna's research project was entitled "Phosphoserine Phosphatase (PSPH) Expression and Breast Cancer Progression in Women." She studied the serine biosynthesis pathway in surgical specimens and proposed that increased serine biosynthesis was essential for development and progression of breast cancer in women. Brianna did this immunohistochemistry project at Wood Hudson Cancer Research Laboratory, along with two other Thomas More students, Anna Oliverio and Angel Rapp. This research was supported in part by the **I Have Wings Breast Cancer Foundation**.

Brianna was a Senior at Thomas More University and President of the Tri-Beta Biological Honors Society, she graduated in May of 2022, and has started medical school at the University of Cincinnati (see pg. 6).



**Wood Hudson
Cancer
Research
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Working Towards the Conquest of Cancer Through Research

The Only Independent, Not-for-profit Cancer Research Laboratory in Kentucky and the Tri-State Area



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

Check out our new webpage at
www.woodhudson.org,
thanks to Robert Pullman!

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).

How You Can Support Our Cancer Research Mission

- 1) Our **Annual Fund Drive** has started — our goal this year is to raise funds for our research of human breast, ovarian, lung, colon and bladder cancers as well as sponsorships for students working and learning in the Undergraduate Research Education Program. Donations from individuals, groups of individuals, businesses and organizations are appreciated and needed. Grants from Foundations, Corporations and Government entities are also being sought in this highly competitive environment. Thank you for whatever support you can give to our Annual Fund Drive.
- 2) Need to take your IRA's Required Minimum Distribution (**RMD**)? For those who qualify (over 70 1/2 years of age), any time before December of each year you can contact your banker or IRA administrator to donate directly to Wood Hudson, and save the tax burden while helping our good cause.
- 3) Donating appreciated stock to Wood Hudson Cancer Research Laboratory is an efficient way to avoid capital gains tax and potentially obtain a charitable donation deduction.

For more information on these or other philanthropy options, please contact Wood Hudson Treasurer, Robert Layton, CPA at rlaytoncpa1@gmail.com or 813-575-9199.