



**Wood Hudson
Cancer
Research
Laboratory**

Report

Winter 2023

*Merry Christmas,
Happy Holidays and
Happy New Year
from all of us at Wood Hudson!*



Merry Christmas and Thank You to Our Friends and Supporters!



Dear Friends: Looking to the New Year with hope and expectation, we realize there is still much to be done. We are very grateful for the numerous individuals, foundations and organizations who supported the work of Wood Hudson Cancer Research Laboratory during 2023. These donors are recognized on pages 6 & 7. With your financial help this year, we were able to work with eleven undergraduate students in the Undergraduate Research Education Program (UREP). We saw two UREP students graduate from college and advance in their chosen careers at local healthcare related organizations and businesses. In November, two UREP students gave reports of their research at the Annual Meeting of the Kentucky Academy of Science held at Northern Kentucky University (NKU). Dr. Erik Bey, who is now in his second year as a Senior Staff Scientist at Wood Hudson, authored a paper published in the journal *Genes* on resistance to therapy in non-small cell lung cancer. He subsequently submitted a grant application for additional non-small cell lung cancer research, which is currently under review at the Department of Defense. Progress was made on breast cancer and ovarian cancer projects that are still ongoing. Thanks to my loving family and some highly skilled physicians I came through a totally unexpected health problem and am looking forward to a healthy New Year! My recovery was made possible not only by the kindness of my children and grandchildren, but also by my friends who wrote supporting cards and notes and by the Wood Hudson Staff and Trustees who stepped up to the plate during my temporary absence while I was working remotely. My heartfelt thanks to each of you! Thank you again to all our donors who receive this newsletter. The Trustees, Students and Staff of Wood Hudson Cancer Research Laboratory send our best wishes for a beautiful Christmas season and good health, peace, and prosperity in the New Year.

Dr. Julia K. Carter

Generous Grant from the Carol Ann and Ralph V. Haile, Jr. Foundation

On October 18, 2023, Wood Hudson Cancer Research Laboratory received word of a generous grant of \$15,000 from the Carol Ann and Ralph V. Haile, Jr. Foundation for general operating support. This grant will be used for general operating support for cancer research and our Undergraduate Education Research Program (UREP) during 2024. The expenditures will include payment for utilities such as gas & electric, water & sanitation, and trash removal, as well as insurance, telephone, and internet expenses. Wood Hudson Cancer Research Laboratory, Inc. is a 501(c)(3) tax-exempt organization and publicly supported charity, and relies on donations from foundations, corporations, businesses, and individuals to continue our research.

Carol Ann and
Ralph V. Haile, Jr.
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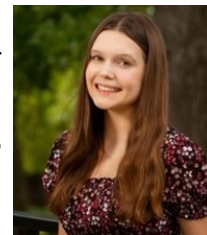
The Haile Foundation is an independent family foundation dedicated to enhancing the quality of life for residents in our region. They concentrate their efforts and resources in areas about which Carol and Ralph were most passionate: Arts and Culture, Civic and Community, Education, and Human Services. In collaboration with their region's stakeholders, they help lead the way to a strong and vibrant community across ten counties in Ohio, Kentucky and Indiana. For more information visit www.hailefoundation.org.

The UREP Summer Experience as Told by Students

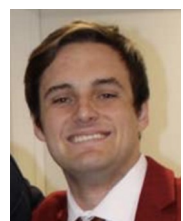


I am Isabel Enzweiler, a sophomore pre-med student at Thomas More University. I am a student athlete and shoot archery at TMU. I am a biology major, and this opportunity really expanded my knowledge of cells and their growth. I really enjoyed working in the lab and running through the processes required to stain the ovarian tissue samples. I learned a lot about sterile code and even learned how to successfully coverslip with no air bubbles. This experience has been amazing, and Dr Carter, Dr. Douglass, and Dr. Deddens have taught me so many important skills I know I can use in my pursuit of med school. I am very grateful to be able to be part of UREP at Wood Hudson.

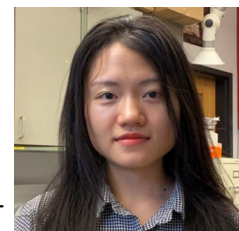
My name is Isabella McIntosh, and I am an incoming Freshman to the University of Kentucky as a Biology major on a pre-vet track. I learned about Wood Hudson through opportunities at the Gatton Academy of Mathematics and Science. I wanted to get some experience outside of working with animals, and I found just that while working with Wood Hudson. I have learned many new skills in the lab, including western blot procedures, comet assay, using a biosafety cabinet, cell cultures, microscopy, and more. I found that working in the lab helped to build on what I learned, and I became comfortable with procedures that would be difficult to understand from only reading papers. I was also able to learn in detail about cancer through fruitful presentations and readings. Overall, working as an intern at Wood Hudson was a positive and fulfilling experience. Thank you for a great summer!



My name is Kevin Ruhnke. I am currently going into my Junior year at the University of South Carolina in Columbia. I major in Biomedical Engineering with the hope to further my education career in grad school. Working in the labs at Wood Hudson has provided me with an invaluable experience that I otherwise would not have had this summer. Working hands on in the lab with Dr. Erik Bey on breast cancer research provided me with the experience of working in the lab and the knowledge of several lab techniques of cell research that I would not have known otherwise. Both in and out of the lab I was able to further my knowledge of the inner mechanisms of cancer and treatment methods as a whole.



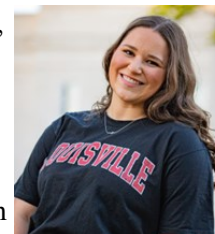
Men Tran writes: As an international student at Northern Kentucky University, there are not many opportunities for me to gain experience relating to science research off-campus. Wood Hudson opened a new door for me to research lab, especially the field that I had always wanted to be involved in- cancer research. Starting from October 2022, I have been doing research at Wood Hudson Cancer Research Laboratory for almost a year. This experience has been a valuable experience for me, paving the way for my future career in research. Working at Wood Hudson has not only honed my technical skills but also instilled in me a deeper appreciation for the impact of research in advancing medical knowledge and potentially paving the way for new therapeutic approaches in cancer treatment. I am committed to dedicating my efforts and passion to furthering our understanding of cancer and making a positive difference in the lives of those affected by this disease.



Susan Sterling writes: I first began college in the Fall of 2020. The pandemic was changing every aspect of our lives during this time and as a college student, I was also affected by these changes. I completed many of my labs asynchronously or in a partially online environment. Because of this, I feel I did not get the full experience out of my labs that previous students had received. Since joining the UREP program at Wood Hudson Cancer Research Laboratory, I feel that this program has not only made up for any experience I may have missed out on, but surpassed what I would have been able to learn in a classroom setting. As a UC student, our class sizes are large. In the lab I work in as a UREP student, I am able to work with Dr. Carter hands on and gain invaluable experience. Working with our pathologist, Dr. Douglass, has also provided me with incredible insight as I am able to work with someone who has a vast amount of experience. I feel that I am able to ask more questions than in a traditional classroom setting and gain deeper insight into what we are studying. Overall, the UREP program has been invaluable to me as a student, and I know that it will help me in my future endeavors. Working with such skilled scientists has helped me develop my own skills beyond that of my peers who only have the classroom environment. I am ever grateful to Dr. Carter and the Wood Hudson team for the experience they have provided me as a UREP student.

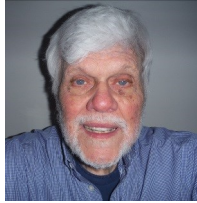
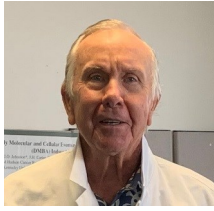


Hi! My name is Addison Hoskins. I graduated from The Gatton Academy in the Class of 2023. As of Fall 2023, I will be attending The University of Louisville as a Biochemistry major and Deaf Studies minor. Following graduation, I hope to attend medical school and have a long career as a physician. The Undergraduate Research Education Program (UREP) has allowed me to gain valuable skills in the lab, as well as knowledge on specific cancers and general cancer behavior. While working at Wood Hudson, I had the opportunity to study ovarian cancer and investigate the relationship between intensity of cancer tissue staining and the type of tumor. I worked with Dr. Julia Carter and a team of other undergraduate students to complete lab work, study slides with a pathologist, and write a report on our study. My favorite parts of UREP were completing lab tests and learning the biology behind why the tests are useful.



The Summer UREP students made their final statements on July 26th, the last day of the program.

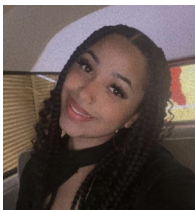
UREP Mentors



Wood Hudson Cancer Research Lab thanks its colleagues who gave their time to mentor UREP students. Dr. Doug Hartman, who taught the students about colon cancer; Dr. Jim Deddens, who taught statistics; Dr. Zachary Taylor, oncogenes; Dr. Erik Bey, tumor metabolism; Dr. Larry Douglass, viruses and cancer then and now; and Dr. Ron Snyder, genetic toxicology. Dr. Julia Carter discussed “Why Do Research?” Students also studied the textbook *The Principles of Cancer Biology* and gave a written and oral report on their laboratory projects.

Mentors, top row: Dr. Doug Hartman, Dr. Jim Deddens, Dr. Zachary Taylor; bottom row: Dr. Erik Bey, Dr. Larry Douglass, and Dr. Ron Snyder.

Winter and Spring UREP Students



Fatimetou and Shakyrah worked with Dr. Bey on breast cancer and non-small cell lung cancer projects studying tissue cultured mammalian cell lines during the winter of 2022-2023. Aaron, Kimberly, and Cecelia worked during 2022 and 2023 with Dr. Douglass and Dr.



Aaron Palmisano, Cecelia Reaugh, and Kimberly Holland

Carter on immunohistochemical studies of archived, paraffin-embedded formalin surgical specimens of human breast cancers, bladder cancers, and melanoma.

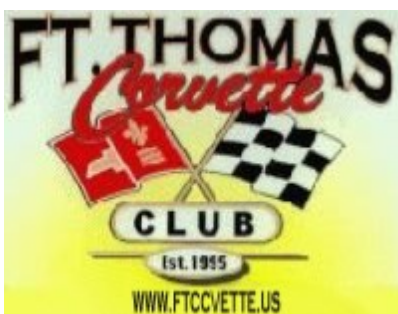
22nd Annual Car Show Benefit on August 12th



On Saturday, August 12th, 97 cars participated in the Ft. Thomas Corvette Club Car Show for the benefit of Wood Hudson Cancer Research Laboratory. Jack Buecker, President of the Ft. Thomas Corvette Club, said, "Although we had a rainy day, we enjoyed our show."

Over the past 22 years, the Ft. Thomas Corvette Club Car Show raised \$348,880 for the Wood Hudson Cancer Research Laboratory Research and Education mission. We estimate that nearly 150 undergraduate students were helped by these funds and many breast cancer, colon cancer, ovarian cancer, malignant melanoma, bladder cancer, non-small cell lung cancer, and prostate cancer research projects benefited as well. We also acknowledge with gratitude Hofbrauhaus Newport, who

not only donated their parking lot for the Car Show, but also gave a portion of their food receipts during the hours of the Car Show. The donations from the Hofbrauhaus which were added to the proceeds of the car show totaled \$42,925! Thank you to the Corvette Club Car members for their hard work and for the car enthusiasts, who supported the event and for the Hofbrauhaus for their contributions. A good time was had by all!



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Special Occasions 12-01-22 to 11-13-23

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In Honor of
Dr. Julia Carter
Bev Holiday

Generous Grant from the R. C. Durr Foundation

The R. C. Durr Foundation, Inc.



Once more, in 2024, undergraduate STEM students participating in the Wood Hudson Cancer Research Laboratory Undergraduate Research Education Program (UREP) will benefit from the generosity of the R.C. Durr Foundation. A \$10,000 grant was received October 31st from the R. C. Durr Foundation to support 4 or 5 UREP students during 2024. Mr. R. C. Durr endowed the R. C. Durr Foundation, Inc. for charitable giving in perpetuity in Northern Kentucky upon his death. During his lifetime most charitable organizations in Northern Kentucky, including Wood Hudson Cancer Research Laboratory, benefited from his generosity, kindness, and compassion for others. Mr. Durr, who was known for hard work and perseverance, started his heavy construction company with one dump truck and a loader. The R. C. Durr Company became one of Kentucky's most successful heavy construction and highway contractors. Mr. Durr became one of the most respected community and business leaders. Previous grants from the R. C. Durr Foundation have given many UREP students the opportunity for hands-on research experience as well as helped fund many other Lab projects.

Gatton Academy Students Join UREP Program



Academic Opportunities Coordinator Cheryl Kirby-Stokes writes, "The Gatton Academy of Mathematics and Science has again sent students to UREP 2023, and we are positive their work this summer will make them better-prepared researchers and colleagues wherever they land. The Academy feels privileged to continue working with the UREP program and looks forward to many more years of productive and progressive collaborations with our students." Gatton Academy students participation in Wood Hudson's UREP is funded in part by the College Heights Foundation, Inc.

Wood Hudson Thanks Its Contributors and Supporters

11/1/22-11-20-23

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End-of-Year Giving

Your gift to Wood Hudson will help sustain our efforts provide the research needed to eradicate cancer. We hope that you will find this information useful as you consider your year-end giving.

A Gift of Stock — Provides Tax Advantages: A gift of appreciated stocks or mutual fund shares to Wood Hudson can provide you with the best tax advantages. You will get a charitable deduction for the full amount of the gift, just as you would if your gift was made with cash, and you don't incur capital gains tax on the appreciation. If you can't use all of the income tax charitable deduction resulting from the gift, you can carry it forward for up to 5 years!

How to Transfer a Gift of Stock: Gifts of stock or mutual fund shares can be given to benefit Wood Hudson. The proceeds can be directed to the Lab or designated to a program at the Lab such as our Undergraduate Research Education Program (UREP). For transfer instructions, please contact the Lab at (859) 581-7249.

Donating IRA Assets to Charity: Turn your Required Minimum Distribution (RMD) into charitable donations. If you are 70 1/2 or older, you can donate up to \$100,000 tax free from your IRA each year to Wood Hudson. Your distribution will not be included in your income if it is sent directly to Wood Hudson.

Utilizing a Charitable Trust: A charitable trust allows you to donate cash or assets to Wood Hudson and obtain a current tax deduction even though the cash or assets are not actually transferred to Wood Hudson until some time in the future. There are basically two types of trusts – a **Charitable Lead Trust (CLT)** and a **Charitable Remainder Trust (CRT)**.

A **CLT** is an irrevocable trust that is established to distribute an income stream to Wood Hudson for a set number of years. Upon the expiration of the trust, the assets that remain in the trust revert back to you, your heirs, or other designated beneficiaries.

A **CRT** works a bit differently than a **CLT**. A **CRT** is an irrevocable trust that provides you with a stream of income for your life or set period of years with the assets remaining in the trust going to Wood Hudson upon your death or the expiration of the trust period.

Which trust you decide upon, and the terms of the trust should be based upon your specific situation and what goals you have in mind. Establishing a charitable trust can be a rewarding way to make an impact for a cause you care about deeply while still retaining the benefits of a stream of income, current deductions for gift and estate taxes, and a current year income tax deduction when the trust is established.

We Can Help: If you have any questions regarding how making a donation to Wood Hudson may impact you directly, feel free to contact us. Our Board of Trustee Treasurer, Robert J. Layton, CPA, CFP can answer any questions you may have as well as offer you a free, confidential, no obligation telephone consultation regarding your specific tax and financial situation, and potentially recommend how to maximize your benevolence. He is a Certified Public Accountant (CPA) as well as a Certified Financial Planner (CFP) with 40 years of experience. We urge you to take advantage of this opportunity even if you ultimately do not donate to Wood Hudson, as he would be happy to speak with you and offer his advice.

*****Don't Forget! Cash donations received before December 31st, 2023, will be matched up to \$5,000, ***
thanks to the Matching Gifts fund from an anonymous donor!**





**Wood Hudson
Cancer
Research
Laboratory**

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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 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).

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