



**Wood Hudson
Cancer
Research
Laboratory**

Report

Winter 2022

*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,

As we come to the end of 2022, we are looking forward to 2023 with the hope that the COVID-19 pandemic, which has taken so many lives, will continue to wane. We are also looking back to 2022 and the two previous pandemic years with gratitude that our Staff, Students and Cancer Research Mission survived, if not somewhat bruised. We will be starting 2023 with a new Senior Staff Scientist, new students, new projects, and projects nearing completion - none of which we had at the beginning of 2022. As we look back at 2022 and the previous two pandemic years we are grateful for the support of our many friends, as well as the foundations who have stuck with us and continued to support us both financially and through donations of time and talent. Your generosity is acknowledged in many pages of this newsletter. Help from government programs such as the two Payroll Protection Loans we received that were forgiven in 2020 and 2021, and this year's Team Kentucky Nonprofit Relief grant, have been crucial in navigating the troubled financial waters caused by the COVID-19 pandemic. Through it all we have learned how to conduct research and education differently. Before the pandemic, who would have thought you could do microscopy by Zoom, teach students, and have Board meetings or give scientific presentations at local and international scientific meetings virtually? We are grateful to now have enthusiastic and energetic students back in the lab, and fun fundraising events such as the Ft. Thomas Corvette Club Car Show back in person. We are also grateful for the advances in technology and drug discovery that were forced upon us by the health crisis caused by the COVID-19 pandemic. Hopefully these new technological advances will also favorably impact the ongoing battle against cancer, another disease that impacts so much of humanity.

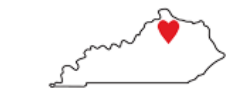
Thank you again to all our donors who receive this newsletter. The Trustees, Students and Staff send our best wishes for a beautiful Christmas season and good health, peace, and prosperity in the New Year.

Sincerely,
Dr. Julia Carter
President
Wood Hudson Cancer Research Laboratory



We Thank Local Foundations for Their Generous Support

The R. C. Durr Foundation, Inc.



The heart of Northern Kentucky

We acknowledge with gratitude a generous \$15,000 grant from the Carol Ann and Ralph V. Haile, Jr. Foundation, for the purpose of operational expenses during 2023, received in November 2022. We also acknowledge with gratitude another \$10,000 grant received from the R. C. Durr Foundation on October 31st. The purpose of the R. C. Durr grant is to support four or five students from Northern Kentucky to participate in

Carol Ann and
Ralph V. Haile, Jr.
FOUNDATION

hands-on experience and research in Wood Hudson's Undergraduate Research Education Program in 2023. Also on October 31st, we received a \$100,000 grant from the Team Kentucky Nonprofit Assistance Fund. This grant was awarded to Wood Hudson to mitigate the loss of income in 2021 compared to 2020, as a result of the COVID-19 pandemic. We thank both the Governor and the General Assembly for supporting the inclusion of this funding in the state budget, and the Public Protection Cabinet for administering the funds. Prior to October, other grants were received to support research and education during 2022. These grants included those from the Josephine Schell Russell Trust, \$33,000, the Chemed Corporation Foundation, \$25,000, two \$10,000 grants from the R. C. Durr Foundation—one to support students in UREP, and one to support the reopening of the laboratory facilities, and the I Have Wings Foundation gave \$5,000 to support breast cancer research during 2022.

Research and Student Updates

This fall, Wood Hudson Students worked with Dr. Erik Bey to learn sterile tissue culture technique. The students each learned the principles behind using a BSL2 hood for tissue culture. They each had their own set of MCF-7 breast cancer cells and performed a variety of experiments including cell growth assays in 24 well plates, and colony forming assays in p60 dishes. The students were able to accomplish performing tissue culture without major contamination issues. Students were also able to gain experience performing the Western Blot technique. In these experiments samples of MCF-7 breast cancer cells which had been treated with ARQ-761 (AKA beta-lapachone) were electrophoresed and then transblotted onto an immobilized PVDF membrane. This membrane was then probed with primary antibodies (NQO1, Actin, PARP and p53) and the appropriate secondary antibodies as well. The results of these western-blotting procedures were visualized using the Wood Hudson C-digit imaging device.

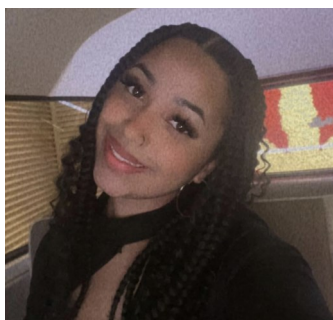


UREP Students Working with Dr. Bey



My name is Men Tran (Mia) and I come from Vietnam. I'm a junior at Northern Kentucky University pursuing a Bachelor of Science with a focus on Cellular/ Molecules/ Genetics. I have been in the U.S. for almost three years. During the last few years at NKU, I took Microbiology, Genetics, Ecology, Organic Chemistry, Biochemistry, Physics, and many other science classes. I have been involved in research since my sophomore year and have always sought out research opportunities as much as possible. I have been passionate about sciences and research since I was younger, and this opportunity at Wood Hudson Cancer Research Laboratory is a great experience to prepare me for my future path.

Men Tran is one of the three students learning tissue culture techniques with Dr. Bey, and is assisting with his breast cancer study. Another student (not pictured), Fatimetov Ahmed, a junior at Northern Kentucky University, is also assisting with this project.



My name is Shakyrah Smith, I am a 2018 graduate of Taylor High School in Cleves, Ohio. I am currently a senior at Mount St. Joseph University. I will be graduating December 10th, 2022, with my B.S. in Biomedical Sciences. I joined Wood Hudson Cancer Research Laboratory on October 3rd, 2022. I applied with the hopes to gain additional medical research experience and my expectations were greatly exceeded. I have learned so much ranging from the importance of sterile technique for cell culture maintenance, and how breast cancer cells divide (cell growth and colony forming assays), respond to chemotherapy (apoptosis assays), and act in the human body (from assigned reading materials in Principles of Cancer Biology). After graduation this December, I plan to continue doing biomedical research and then apply to a physician assistant program in April of 2023. I have also been an active-duty member of the Ohio Army National Guard since I was 17 years old.

Meet Other UREP Students at Wood Hudson

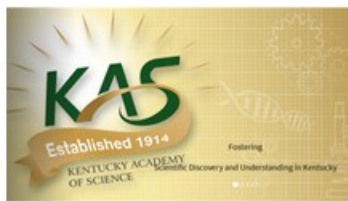
My name is Cecelia Reaugh. I am a first-year freshman at Northern Kentucky University and I work with Dr. Carter at Wood Hudson Cancer Research Laboratory. I grew up in Louisville, Kentucky, and have always had a love for biology. I am currently pursuing a degree in the Department of Biological Sciences at NKU. I was informed by a member of the Pre-Med Honors college that there was an opportunity to work with cancer research. I have a personal relationship with cancer as my mother has developed it many times, so I applied. I love working here with Dr. Carter. We stain slides of breast tissue so that we can better observe cancer under a microscope and diagnose the malignant tumors under various categories such as Infiltrating Carcinoma, Ductal Carcinoma in situ, and so on. I have learned a lot about how both research and laboratories work and I am very thankful for this opportunity and everything it has brought me. I hope to continue working here next semester as well.



Cecelia has been working with Dr. Larry Douglass and Dr. Julia Carter with microscopy on Zoom, studying immunohistochemically stained archived breast cancer surgical specimens for expression of PSPH (phosphoserine phosphatase), an important enzyme for the synthesis of the amino acid serine. Serine synthesis may be important in breast cancer development and growth, and a target for therapy.

Kimberly Holland (pictured left), a senior at Mount St. Joseph University, is preparing a poster and writing a paper for her senior capstone project that she began at Wood Hudson Cancer Research Laboratory in January, and will present to the Mt. St. Joseph Faculty in May 2023.

Kentucky Academy of Science Annual Meeting



The Kentucky Academy of Science Annual meeting was held on November 11th and 12th this year, hosted by Morehead State University. Approximately 700 scientists and students attended this joint meeting of the Kentucky Academy of Science and the Kentucky Junior Academy of Science. Morehead State University is at the forefront of STEM education in the Commonwealth of Kentucky, and is the home of the Craft Academy for Excellence in Science and Mathematics. The Craft Academy is a dual-credit academy for academically exceptional Kentucky students interested in pursuing STEM degrees. On Saturday, November 12th, Dr. Jay Morgan, President of Morehead

State University, welcomed the scientists before the plenary session entitled "Traveling Through Disciplines" with keynote speaker Dr. Andrea Armani. Oral presentations and posters were given by undergraduate students and high school students in 14 different disciplines. For the first time since the Academy's founding in 1914, a session was held focused on cancer. Dr. Julia Carter, President of Wood Hudson Cancer Research Laboratory, and Courtney Martin, a graduate student at the University of Kentucky, co-chaired this session on cancer. Six high school and undergraduate students presented research reports, and Dr. Erik Bey, senior staff scientist at Wood Hudson, presented a report on his research and plans for the Undergraduate Research Education Program (UREP). High school students gave reports on innovative projects, such as "Developing a Low-Cost Device for the Diagnosis of Thyroid Cancer". College undergraduates from Northern Kentucky University, Berea College, Western Kentucky University, and Wood Hudson Cancer Research Lab gave presentations on genetic molecular changes in cancer. One of the student reports was by Jonathan Scherff (pictured), a Wood Hudson UREP student and sophomore at Mt. St. Joseph University. Jonathan's presentation reported the research proposal he prepared while participating in the summer virtual UREP held by Wood Hudson. Jonathan writes, "I want to thank Dr. Carter for giving me the opportunity to present my research project at KAS. I also want to especially thank Dr. Bey, Dr. Douglass, Dr. Snyder, Professor Gilb, and the rest of the Wood Hudson team for their support and guidance over the last 5 months. The experience I gained and terminology I learned will undoubtedly carry with me and serve as the framework for all I will learn and discover in the many years to come."



21st Annual Fort Thomas Corvette Club Car Show Success

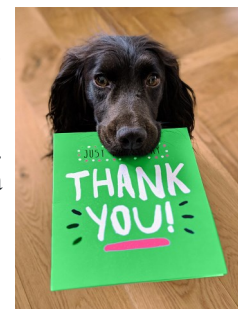
The 21st Annual Ft. Thomas Corvette Club Car Show to benefit Wood Hudson Cancer Research Laboratory was held in the Hofbrauhaus Newport parking lot on August 13th. The event raised \$24,666 in donations from trophy sponsors, the Bourbon Raffle, and sponsorship donations, as well as a generous 10% of food sales during the time of the car show by Hofbrauhaus. The show included 217 cars of all makes and models, old and new. Car clubs from Louisville, Kentucky and Dayton, Ohio traveled to Newport to support the event. We thank all car enthusiasts who showed their beautiful vehicles, and all those who came to view these showpieces. Many visitors

bought Bourbon Raffle tickets, which gave them the chance to win unique and valuable bottles of bourbon, donated by friends of the Fort Thomas Corvette Club. 74 memorial trophies were given to car show participants, including Best of Show, Wood Hudson Award, and Veteran's trophies. The conscientious and dedicated work of the Ft. Thomas Corvette Club members for so many years is greatly appreciated. Over the years, over \$300,000 has been raised by the car show to support cancer research and education activities at Wood Hudson Cancer Research Lab. **Thank you for making it possible!**



November 29th was Giving Tuesday

Giving Tuesday, or the National Day of Giving, was November 29th, the first Tuesday after Thanksgiving, just as the holiday shopping season began. Created in 2012 by New York's 92nd Street Y and the United Nations Foundation, Giving Day is observed in 80 countries worldwide as a way to show our spending can be matched by generosity. Non-profit organizations make use of the awareness Giving Tuesday provides to make the most impact in their causes and campaigns, and Wood Hudson Cancer Research Lab is no exception. We had an ambitious goal and a wonderful matching fund. As of November 30th, our campaign has received a total of \$9,145 from 24 donors. It will be matched by our generous donor dollar-for-dollar making the grand total raised \$18,290. This is the best Giving Tuesday we have ever seen at Wood Hudson. Thank you very much for making this year's Giving Tuesday a success. Every Gift makes a big difference at Wood Hudson. Let's join together to fight cancer through research.



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Special Occasions 11-17-21 to 11-28-22

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Birthday
Pat Binder
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Cancer Research Mission
James Vogelpohl

Christmas
Pat Binder

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Easter
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In Honor Of
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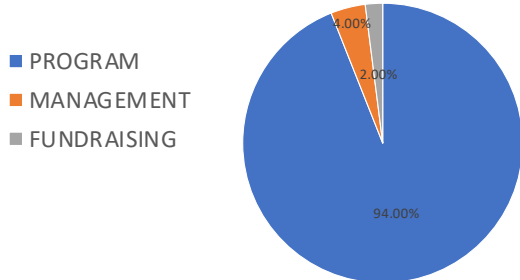
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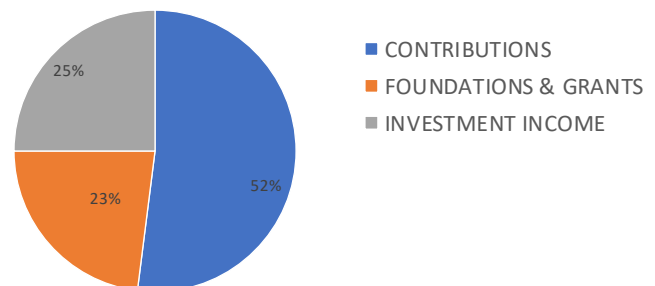
Leukemia Remission 18th Year
Katie Keeler Wilson
Dale & Martha Renner

Mother's Day
Sandra Galang
Anthony Galang

HOW YOUR DONATIONS WERE SPENT 2021



SOURCE OF OPERATING FUNDS 2021



94% of our expenditures are on the cost of our cancer research and undergraduate research education programs. 52% of our funding comes from charitable contributions from people like you. During these uncertain times, your charitable contributions are vital to our ability to do research needed to eradicate cancer. Thank you for your support, and we appreciate any future donations; please see End of Year Giving (p. 7) for information from Trustees Michael Murray, C.F.R.E., and Robert J. Layton, C.P.A., C.F.P., Treasurer.

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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, 2022, will be matched up to \$7,000, ***
thanks to the Matching Gifts fund from an anonymous donor!**





Wood Hudson
Cancer
Research
Laboratory

931 Isabella St.
Newport, KY 41071
859-581-7249

The Conquest of Cancer Through Research

Non-Profit Org.
U.S. Postage Paid
Covington, KY
Permit No. 116



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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*denotes former Undergraduate Research Education Program participant
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