



**Wood Hudson
Cancer
Research
Laboratory**

Report

Winter 2019



A Holiday Thank You To Our Donors and Friends for Your Support During 2019

As the year ends the Trustees, Students and Staff of Wood Hudson Cancer Research Laboratory want to thank you, the reader, for your generous support this year. You have supported us with gifts of time, treasure and talent. Thankfully with your help every need has been met – you have answered our call with help for our two major fundraising events – the Flying Pig Marathon and the Fort Thomas Corvette Club Car Show; you have donated time to help with newsletter mailings and donated expertise to help mentor students; and you have donated to our cancer research and education programs with memorial gifts for those who have lost the battle with cancer.

As a result of your generosity Wood Hudson Cancer Research Laboratory has been able to provide “hands-on” research experience to eleven undergraduate students, present research findings on four projects at a scientific meeting, begin new research projects and collaborations, and work to complete manuscripts reporting our research discoveries. Five former students were accepted into medical school, others graduated from medical school, and still others have begun to – or continue to – serve our community as physicians, nurses and other healthcare providers and others as scientists and teachers. We have also preserved the tissues from nearly 70,000 local cancer patients in an environmentally controlled space so that their tissues are available for their physicians if further study is necessary.

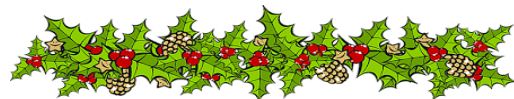
The year has ended on a high note. At the Wood Hudson

Board of Trustees meeting held December 7th, the Trustees unanimously approved the 2020-2022 Strategic Plan. The Strategic Plan serves as a roadmap for the next three years and includes the newly revised Board Member’s Manual and the 2020 Investment Policy Statement. Our first priority of this new plan is to increase funding for day-to-day operations that will support our research to identify new methods of cancer diagnosis, prognosis, and treatment, and to continue to work toward restoring the Undergraduate Research Education Program to 22 students per year. During the second year of the plan, we will work towards increasing our research programs to include cancer immunology and cancer genetics.

The Trustees and I thank the foundations, companies, organizations, and individuals for your continued support as we begin the 39th year of our mission next month on January 26th, 2020. This horrible disease called “Cancer” continues to take too many lives – with your help we will continue to work towards the “Conquest of Cancer through Research” into the next decade.

The Wood Hudson Cancer Research Laboratory Trustees join me in wishing you a Merry Christmas, a Happy Holiday Season, and good health and prosperity in 2020.

Dr. Julia Carter
President



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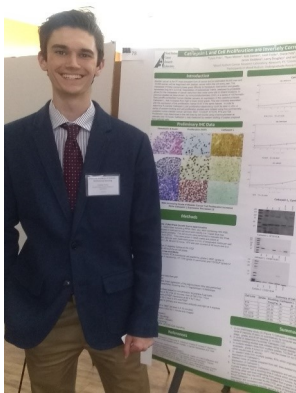
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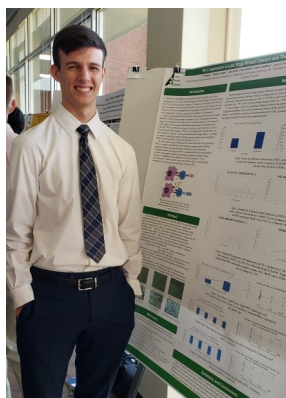
Kentucky Academy of Science 2019



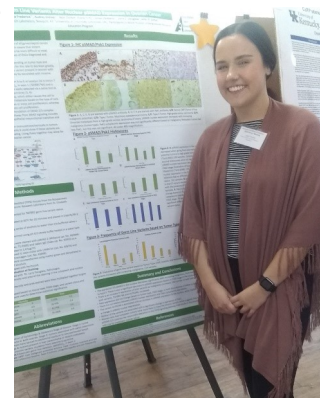
Louis Fritz with bladder cancer research poster

More than six hundred scientists from 14 different areas of scientific research met at the Kentucky Academy of Sciences Annual Meeting held at Berea College November 1st and 2nd. Over 300 scientific reports were given either as poster presentations or as oral reports. Scientists and students from Wood Hudson Cancer Research Laboratory were there to present their work. Our Research Assistant Leah Focke presented research she had pursued as a UREP student for her senior project at Mt. St. Joseph University. The project had been added to this summer by Audrey Giesler from Eastern Kentucky University and Olivia Frederick from Ohio State University, but was not eligible for the Undergraduate Research Competition since Leah had graduated. J. T. Reagor presented a poster reporting research that he and his classmate from Gatton Academy, Natalie Cooper, had begun, studying immune aspects of breast cancer. Louis Fritz (U of L) gave a poster presentation on bladder cancer research completed in partnership with Ryan Moore (NKU). Michael Parritt, a Senior at Xavier University gave an oral report on ongoing studies of gastric cancer that he is pursuing as his senior project.

We are pleased to report that two of these UREP students won awards in the Undergraduate Research Competition: Louis Fritz won first place in the Physiology and Biochemistry Section for his poster presentation, and Michael Parritt won third place in the Physiology and Biochemistry Section for his oral presentation. As reported by Michael, below, the meeting provided an educational experience and an opportunity to network with scientists and students throughout our Commonwealth.



JT Reagor with breast cancer research poster



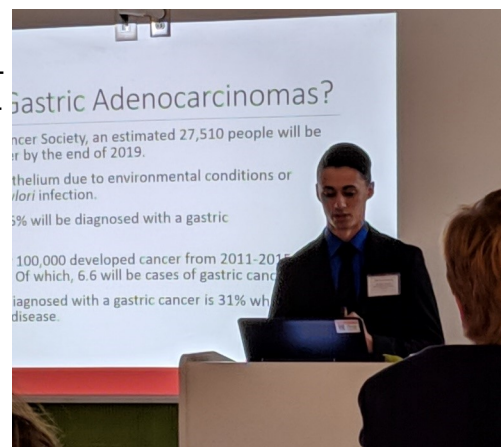
Leah Focke, B.S., with ovarian cancer research poster

Michael Parritt writes of his experience: The Kentucky Academy of Science (KAS) is a scientific society established in 1914 that has been providing the Commonwealth of Kentucky with a platform to share scientific discoveries and ideas. The KAS is an annual interdisciplinary meeting that showcases the scientific research that has come out of Kentucky. The meeting itself is held at a different Kentucky university or college every year, with this year's event



Louis Fritz, Dr. Julia H. Carter, and Michael Parritt at Science Center of Berea College

being held at Berea College. The entire event spans a weekend and not only includes oral and poster presentations from students, but also a key-note speaker, various vendors and other activities related to the sciences. As a student myself, the KAS was a great opportunity to showcase the work I've done and the results that were obtained from my research. It was also a wonderful opportunity to see what other students from around Kentucky were working on and see what Kentucky is like being from Ohio myself. Being a student, you are also entered in the presentation competition among others in your discipline. The competition allows students to show their knowledge of the material outside of what they presented. In all the KAS was a great experience and a wonderful opportunity to show off your hard work.



Michael Parritt gives presentation on gastric cancer at KAS

Thomas More Students Visit Wood Hudson

On Wednesday, November 11th, fourteen students who are currently in one of the science programs at Thomas More University toured Wood Hudson to see what we do. Thomas More is one of the several universities with whom we have been closely allied for over 25 years. Approximately 40 former Thomas More students have also been Wood Hudson students during their academic years, and at least 4 have worked as Research Assistants at Wood Hudson after graduating and before beginning medical school. Included among these former Thomas More students is Dr. Jeremy Graff, currently head of the pharmaceutical company *Biothera*, and a valued member of the Board of Trustees of Wood Hudson Cancer Research Laboratory. The tour started with an introduction to Elyse Hawkins, who is in charge of auditing the thousands of annotated paraffin block specimens that arrive from St. Elizabeth HealthCare each year. Our visitors then saw how our histotechnologist, Denise Lucas, takes these paraffin blocks and prepares from them microscope slides and tissue microarrays (TMAs).



Dr. Douglass showing microscopes to visiting students

Next, Dr. Larry Douglass showed our guests some of the microscopes used to visualize the microscopic structure of the human cells on these glass microscopic slides and TMAs. Each student was able to visualize the microscopic appearance of normal human cells and cells from a cancer of the human ovary. The differences between normal and cancerous cells were discussed and time was allowed for the students to ask questions, as astute students are frequently known to do.

Next, Research Assistant Leah Focke focused on the use of the above techniques, in conjunction with other

techniques, by demonstrating her poster presentation, *TGFβR1 Germline Variants Alter pSMAD Expression in Ovarian Cancer*.

Michael Parritt, a student at Wood Hudson from Xavier University, gave a

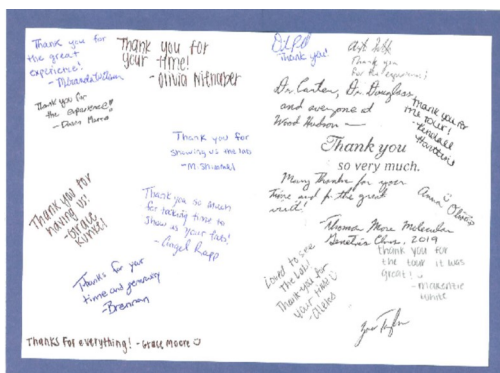
short PowerPoint presentation titled *Pak1, TGFα, and Ki-67 Expression in Human Gastric and Gastro-esophageal Junction Adenocarcinoma*. This research work won for Michael third place in the Physiology and Biochemistry division at the annual meeting of the Kentucky Academy of Science in November.

Finally, Ryan Moore, a Wood Hudson student from NKU, presented the poster *Cathepsin L and Cell Proliferation are Inversely Correlated in Bladder Cancer*, showcasing Western blot and cell culture techniques. This poster was presented by Louis Fritz, a UREP summer student, at KAS and placed first in Physiology and Biochemistry.

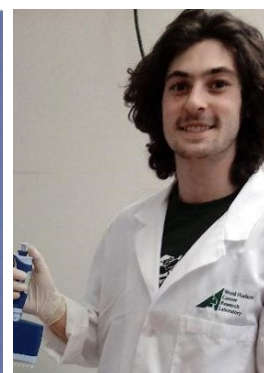


Visiting students during the lab tour

Next, Dr. Larry Douglass showed our guests some of the microscopes used to visualize the microscopic structure of the human cells on these



Thank you note from the visiting students



Ryan Moore

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).

In Memoriam (Memorial Gifts 12/01/18-11/30/19)

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Appreciation for Drawing
Carolyn and Doug Hibbard
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Birth Announcement
Brazos Ashworth
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Birth Arrivals
Matthew and Jennifer
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Birthdays
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Christmas
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Pam McKean

Get Well
Gordon Wilshire
Dr. Julia H. Carter

In Honor of Christmas
Gary and Georgia Kinman

In Honor of Easter
Fred and Ruth Allen
Gary and Georgia Kinman

In Honor of Thanksgiving
Gary and Georgia Kinman

Leukemia Cancer Remission
14 Years
Katie Keeler Wilson
Dale and Martha Renner

Receiving PhD
Brian Riesenber
Dr. Julia H. Carter
Terry and Kathy Riesenber
Successful Treatment of
Lung Cancer
Judy Cohn
Charlene Rasche

Thinking of You
Shelby King
Jane E. Broering

Clayton Peace
James and Mary Ann Peace

Valentine
Darian Kiefer
Mamani and Baba Valanejad

Wedding
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Years of Dedication
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The Carol Ann and Ralph V. Haile, Jr./US Bank Foundation

The Carol Ann and Ralph V. Haile, Jr./U.S. Bank Foundation is an independent family foundation dedicated to enhancing the quality of life for residents in our region. The Foundation concentrates its efforts and resources in areas about which Carol and Ralph were most passionate: Arts and Culture, Community Development, Education and Human Services. In collaboration with the region's stakeholders, the Foundation helps lead the way to a strong and vibrant community across ten counties in Ohio, Kentucky and Indiana. During their lifetime, Mr. and Mrs. Haile gave frequent gifts to Wood Hudson Cancer Research Laboratory. One of the last gifts Mr. Haile gave to Wood Hudson Cancer Research Laboratory was used to purchase a color photocopier which is still in use today. In December, 2018, The Carol Ann and Ralph V. Haile, Jr./U.S. Bank Foundation awarded a \$15,000 grant to support Wood Hudson Cancer Research Laboratory Operating Costs during 2020. These funds were used to support essential utility services such as gas and electric and water and sanitation for our facilities as well as to support the cost of insurance. Notice was sent November 8, 2019 of another Grant Award from The Carol Ann and Ralph V. Haile, Jr./U.S. Bank Foundation in the amount of \$15,000 to be used for General Operating Support during 2019. This continued financial support from The Carol Ann and Ralph V. Haile, Jr./U.S. Bank Foundation for the 2020 Wood Hudson Cancer Research Laboratory Operating Budget is very welcome and greatly appreciated.

The Carol Ann and
Ralph V. Haile, Jr.



FOUNDATION

An independent family foundation

The PNC Charitable Trust Review Committee

The PNC Charitable Trusts Review Committee recently met and awarded Wood Hudson Cancer Research Laboratory a grant in the amount of \$33,000 from the **John A. Schroth Family Charitable Trust**. The grant will be used for the purpose of Restoring Research Education Opportunities to Undergraduates through the Undergraduate Research Education Program.

PNC's Charitable Trust Grant Review Committee funds grant requests that demonstrate a capacity and commitment to charitable service and enhance the quality of life for the people and their communities. Their mission is to implement the legacies set forth by the individual donors who established these trust relationships with PNC. Grants are only administered to select regions based on the donor's preference. Approximately \$50 million in grants is issued annually to recipients in the fields of health, social services, education, religion and the arts.

We acknowledge this gift with gratitude and plan to use these funds to restore the size of the Undergraduate Research Education Program to 22 students per year.

A Special Thank You to Our Volunteers



Santa has his elves to help him at Christmas, but Wood Hudson has special helpers that work throughout the year. The 13 ladies that comprise our mailing committee generously give their time and talent in preparing our newsletters for mailing. Over 5000 newsletters are sent 4 times a year to our supporters. This task would be overwhelming without the help of our volunteers. The Staff and the Board of Trustees at Wood Hudson would like to say **"Thank You"** to this very special group of ladies.



Our volunteers working on the Fall 2019 newsletter, and Georgia Kinman, left, Director of Development and Volunteer Coordinator for the group.



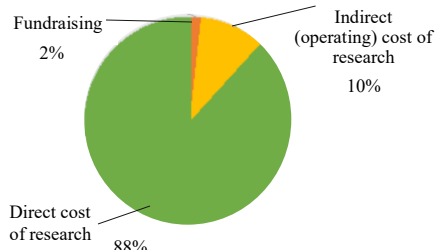
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The Conquest of Cancer Through Research



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



How Your Donations To Wood Hudson Cancer Research Laboratory Are Spent

How You Can Support Our Cancer Research Mission

- 1) Did you know that Wood Hudson Cancer Research Laboratory is a **Gold Level Guidestar charity**? Check us out at guidestar.org.
- 2) 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.
- 3) 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.
- 4) 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.
- 5) Have **stock** that has appreciated and can't determine cost? Give us a call and we can help you!

For more information on these or other philanthropy options, please contact Wood Hudson President, Dr. Julia Carter at 859-581-7249 or jcarter@woodhudson.org or Wood Hudson Treasurer, Robert Layton, CPA at rlaytoncpa1@gmail.com or 813-575-9199.