January 2023 eNews

Happy New Year!

Manuscript Submitted for Peer-Reviewed Publication

Recently, Dr. Erik Bey submitted a manuscript to the Journal “Genes” entitled “NADPH Quinone Oxidoreductase-1 (NQO1) expression promotes self-renewal and therapeutic resistance in non-small cell lung cancer. Authors included Dr. Bey’s former Ph.D. student Brian Madajewski and Dr. Julia Carter, President of Wood Hudson Cancer Research Laboratory Inc. The manuscript describes the role that NQO1 (a gene that reduces exogenously produced oxidative stress from pollutants) plays in lung cancer stem cell production. The authors believe that they have uncovered a novel role for the oxidative stress regulatory gene NQO1, and hope that their article will open up new areas of research in cancer stem cell biology. Currently, Dr. Bey is also studying NQO1 in breast cancer cells isolated from breast cancer metastases.

Meet UREP Student Fatimetou Ahmed

 My name is Fatis Ahmed and I am a Biological Sciences major at Northern Kentucky University. I am in the Pre-Med track, hoping to eventually apply to medical school. My passion for medicine runs deep. Since I was a little girl all I could imagine was myself with a stethoscope in the hospital helping others, and I hope to one day make that a reality. Joining Wood Hudson has allowed me to expand my knowledge not only on the inner workings of cancer cells and how they afflict the human body, but also on basic laboratory practices. The skills I have gained from doing cancer research will surely guide me throughout the future. I would like to extend a huge thank you to Dr. Bey and Dr. Carter for their kindness, patience, and giving me the opportunity to learn and grow as a student.

Fatimetou has been working with Dr. Bey on a breast cancer project while learning cell culture techniques.

Congratulations Hannah Stanley and Heng Yang

 We have recently received good news from two high school students who participated in the virtual UREP in the summer of 2022. Heng Yang is now a senior at Connor High School, and Hannah is a senior at Craft Academy for Mathematics and Science at Morehead State University. Hannah Stanley was accepted to the University of Louisville's SPEED school with full tuition, Purdue University's [West Lafayette, Main Campus] First Year Engineering Program, and Georgia Institute of Technology (Georgia Tech), all for biomedical engineering. Heng has been accepted to Massachusetts Institute of Technology (MIT) and Columbia University. He wrote to Dr. Carter: "My foundational experience in your program has inspired my interest in cancer research and biomedical engineering. In both Columbia and MIT applications, I wrote about my amazing experiences with experts, including you, Dr. Bey, Prof. Gilb, Dr. Snyder, and Dr. Douglas. The lectures and feedback they gave continue to resonate with me, and I hope my future professors have the same kindness, insight, and passion as you showed toward me.The students were also extremely helpful and cooperative, allowing us to learn by correcting each other's mistakes and clarifying each other's work. This summer was the most informative yet fun and interesting one I have had yet. I cannot wait to find my opportunities to work in the lab!"

Thank You to Our Generous Donors

Thank you to all who donated this past year. In 2022, we received gifts from over 250 donors, and this December we received over $50,000, including two major gifts from the Chemed Foundation ($25,000) and the I Have Wings Breast Cancer Foundation ($10,000). No gift is too large or too small, and we thank all those who gave over the holidays. To quote a former Trustee, the late Janet Block Rosen, "There can be no progress without research, and without money, there can be no research." Thank you for making cancer research at Wood Hudson possible through your donations!

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