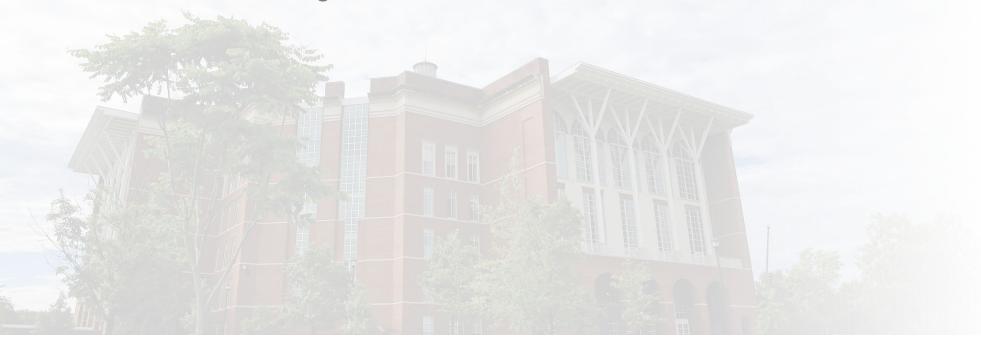
UNIVERSITY OF KENTUCKY BOARD OF TRUSTEES

Ilhem Messaoudi, Acting Vice President for Research







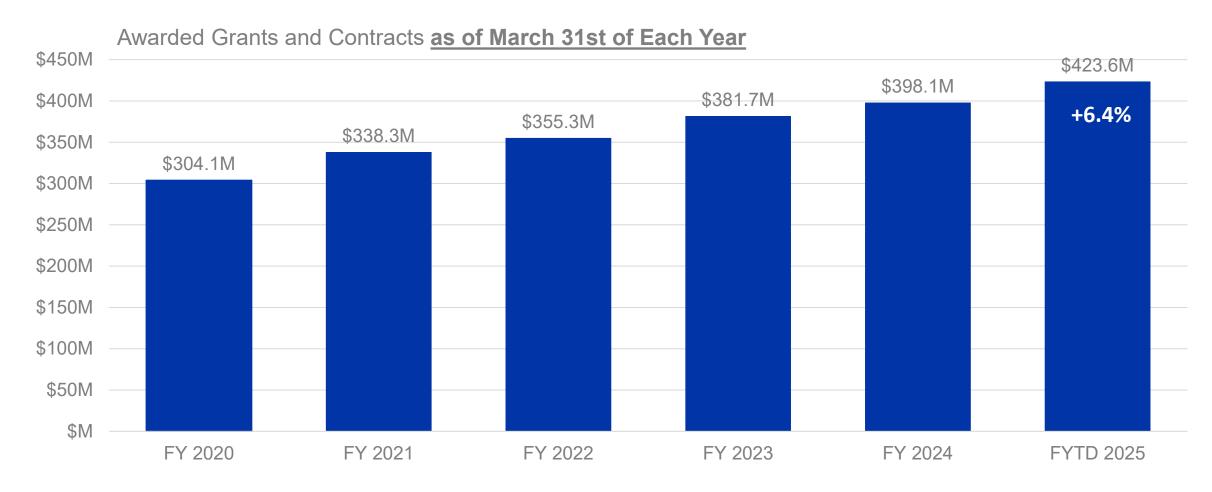
SPONSORED GRANT AND CONTRACT UPDATE



SPONSORED GRANT AND CONTRACT UPDATE

Research by the Numbers

UK-sponsored Grant and Contract Award Data

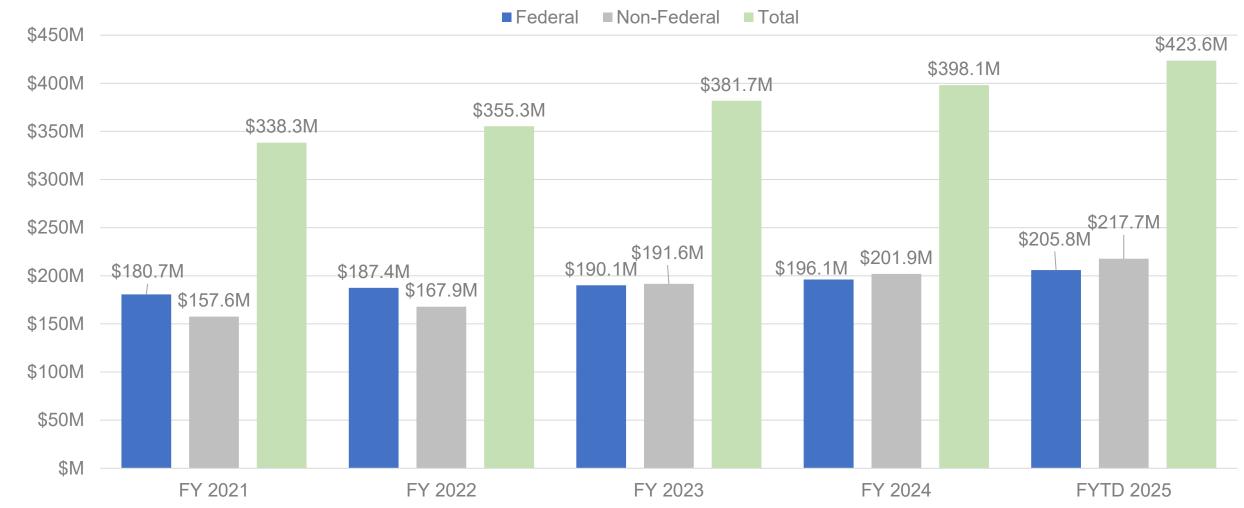




SPONSORED GRANT AND CONTRACT UPDATE

Research by the Numbers

UK-sponsored Grant and Contract Award Data, Sponsor Type

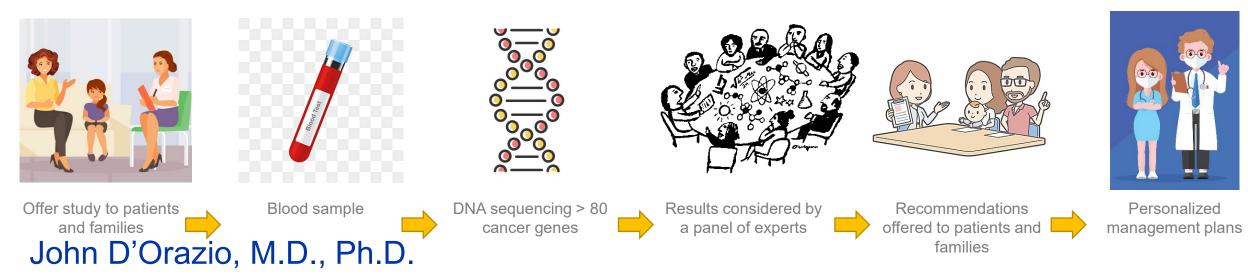


Source: University of Kentucky, Office of Sponsored Projects Administration Database, as of March 31st of each year.





Project Inherited Cancer Risk



Professor of Pediatrics, College of Medicine

- Clinical study designed to identify inherited cancer in children and young adults
- ~250 enrolled since 8/21, syndromes identified, cancers prevented
- Advisory council since 2023, annual symposium, statewide program
- Utilize six shared resource facilities of Markey Cancer Center (National Cancer Institute P30 CA177558)



Treating Spinal Cord Injury, Training the Next Generation of Researchers

John Gensel, Ph.D.

Professor of Physiology, College of Medicine, Director of Spinal Cord and Brain Injury Research Center

- Translational treatments for Spinal Cord Injury (SCI) through industry partnerships and collaborations
- Training doctors and scientists, creating research opportunities for medical students at UK satellite campuses through a trauma registry clinical study
- Six-fold return on investment in health care/scientific professionals in Kentucky
- ~\$2.6 million per year as Principal Investigator on grants from the National Institute of Neurological Disorders and Stroke (NINDS), part of the National Institutes of Health



Recruiting Kentuckians with SCI for biomarker clinical trial (5 patients/week)



Developing diagnostic biomarkers for degenerative cervical myelopathy (>100 patients)



New Treatments for Alcohol Use Disorder Madison Blanton

Ph.D. candidate, Department of Microbiology, Immunology and Molecular Genetics, College of Medicine

- Research focuses on how chronic alcohol misuse affects the immune system and increases the risk of organ damage
- Alcohol use is the leading form of substance use in the U.S.
- Alcohol use disorder is increasingly prevalent in Kentucky, as is the need for treatments
- NIH provides funding for tuition, stipend, health care and research costs

53.5% of excessive alcohol use deaths in Kentucky are from chronic causes, such as alcohol use disorder





NIH Impact on Basic Research: Practice-Changing Treatment for Melanoma Resistance

Led by Rina Plattner, Ph.D.

Professor of Pharmacology and Nutritional Sciences Funded by R01 CA211137; R01 CA258751; MCC internal seed funding Key publications: Science Signaling 2018; Nature Communications 2020





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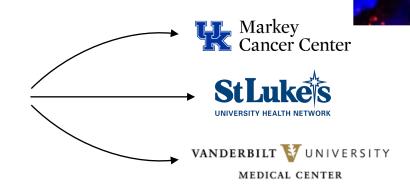


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NIH-funded basic science research from the Plattner laboratory on repurposing nilotinib resulted in a multi-site, Phase I clinical trial (NCT04903119).



nature

communications

Impact: This research represents a paradigm-shifting mechanism to mediate melanoma therapeutic resistance.



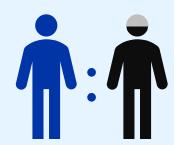
Investing in Kentucky's Economy

The \$527.7M UK spent on research and development in FY24 generated \$937M in economic activity across Kentucky.

As a result, **4,712 jobs** were supported throughout the state, with **2,376 (50%)** of those jobs directly supported by research initiatives.

For every 1 job the Markey Cancer Center supports,

0.89 of a new job is created in Kentucky - nearly a 1:1 ratio.





QUESTIONS



