

FUNDING THE FUTURE OF AML RESEARCH

The Jackson Copeland Foundation is raising the final **\$11,500** to fulfill our **\$25,000** commitment seed-funding pioneering Acute Myeloid Leukemia (AML) research.

\$0

\$13,500 Raised

\$25,000 Goal



Courtney Jones, PhD

Assistant Professor & Director of the
Humanized Mouse Resource
Division of Experimental Hematology

"My goal as a researcher is to identify and develop new therapeutic strategies to target leukemia cells with the overall objective of improving the lives of patients."

Lab Focus: Investigating the unique metabolic vulnerabilities and mitochondrial dynamics of Leukemia Stem Cells (LSCs) to selectively trigger LSC death while sparing healthy blood stem cells.

→ [Visit the Lab Website](#)

CUTTING OFF THE CANCER'S POWER SUPPLY

Conventional therapies like standard chemotherapy often fail to eradicate leukemia stem cells, leading to disease relapse. Dr. Courtney Jones lab investigates how leukemia stem cells rely on cellular energy production—specifically through oxidative phosphorylation and adenosine triphosphate (ATP) generation—to stay alive. By discovering how to disrupt this specific energy pathway, researchers aim to target and eliminate resistant leukemia stem cells directly.

UNIVERSAL IMPACT ACROSS AGE GROUPS

While conducted at a research center affiliated with a pediatric hospital, this vital research benefits patients of all ages, including children, adolescents and young adults (AYA), and older adults. Because leukemia cells across different age demographics share a reliance on these energy production mechanisms, discoveries made in this lab have broad potential to elevate survival rates across the entire spectrum of AML patients.

MULTIPLYING THE IMPACT OF DONOR DOLLARS

Seed funding provides vital early-stage resources that drive immediate progress:

- **Fund Researchers:** Contributions directly cover salaries for high-caliber graduate students and postdoctoral fellows performing daily experiments.
- **Equip the Laboratory:** Funding ensures the lab is consistently stocked with the specialized reagents, cell lines, and high-tech consumables necessary to execute complex experiments.
- **Unlock Grants:** Initial pilot experiments generate the preliminary data required to secure large multi-year federal and institutional grants.
- **Accelerate Cures:** Early stability allows scientists to pursue high-risk, high-reward concepts that advance targeted therapies and bring new treatments to patients faster.



Help Us Reach Our Goal!

Scan to make a direct, tax-deductible contribution. Every dollar brings us closer to a cure.

The Jackson Copeland Foundation | jacksoncopeland.org