



The new graduate program in **Cancer Biology** spans many disciplines, including cell biology, genetics, biochemistry, microbiology, pharmacology, pathology, epidemiology, bioinformatics, and immunology, to name a few. It represents a unique set of training and educational activities that, taken collectively, expose the student to the full breadth of cancer biology while allowing immersion in a specific dissertation topic of the student's choice.

A common theme that unites these diverse endeavors is the desire to push the limits of our understanding of these processes to the highest possible molecular resolution. The program is designed to provide graduate and medical students with the education and training they need to make significant contributions to the field of cancer biology, both in the laboratory and the clinic.

Research Environment

The program conducts cancer research in diverse areas.

research areas include:

- Apoptosis and autophagy
- Tumor cell biology
- Chromosome stability and genome maintenance
- Cell motility and metastasis
- DNA repair, replication and recombination
- Transcriptional and translational regulation
- Metabolism
- Imaging technologies
- Receptor-ligand interactions
- Signal transduction molecules and pathway
- Biomarker studies
- Genomic mutation profiles and informatics
- Non-coding RNAs
- Tumor immunology and vaccines
- Tumor viruses
- Hematopoiesis
- Cancer disparities
- Small molecule and nanotechnology discovery
- Tumor microenvironment
- Clinical trial research

Cancer Biology



Required Courses

- Foundations in Cancer Biology
- Experimental Cancer Biology
- Ethics & Research Science
- Graduate Research Fundamentals
- Journal Clubs (2 units)
- Clinical shadowing rotations
- Advanced Cancer Biology

APPLICATION
DEADLINE

DECEMBER

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EXPLORE & APPLY:
tinyurl.com/dbbstour

For more information about the **CANCER BIOLOGY** program and faculty research:

tinyurl.com/dbbs-cbfaculty



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Program Benefits & Support

- Full tuition funding and benefits*, including:
generous stipend | travel funds for scientific meetings | health, life, and disability insurance coverage
- Opportunities to obtain nationally competitive fellowships, awards, and grants
- Free Metro U-Pass to travel in and around the St. Louis area
- Access to all university educational, entertainment, and recreational resources

**guaranteed, provided that satisfactory progress towards completion of degree requirements is met*

DBBS celebrates diversity in all of its forms.

We invite all students to apply, especially those from backgrounds historically underrepresented in the sciences, such as African, Latin, and Native Americans, those with disabilities, and individuals from low-income backgrounds.

To learn more about DBBS' diversity initiatives, visit: <https://tinyurl.com/dbbsdiversity>