

The graduate program in **Developmental, Regenerative, and Stem Cell Biology** provides students an ideal training environment for careers in the biomedical sciences.

Students and faculty members in the program employ genetics, cell biology, and biochemistry as well as cutting-edge imaging, genomic, and systems-level approaches to dissect key outstanding questions in the fields of development, regeneration, and stem cell biology.

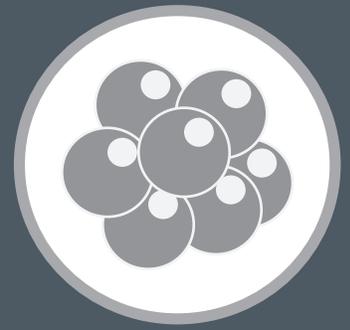
Research Environment

A central theme is the desire to understand the genetic and molecular basis of specific developmental events and how defects in these events lead to developmental disorders and disease, such as cancer and neurodegeneration.

research areas include:

- regenerative and stem cell biology
- organogenesis
- animal models of human developmental disorders
- aging and longevity
- neuronal development, differentiation and plasticity
- genetic/developmental basis of cancer
- growth factors and cell signaling during development
- establishment of cell and tissue polarity
- circadian rhythms
- growth control and nutrition
- hormonal regulation
- gene regulatory networks/systems biology
- epigenetic control of development

Developmental, Regenerative & Stem Cell Biology



Required Courses

- Nucleic Acids & Protein Biosynthesis
- Fundamentals of Molecular Cell Biology
- Developmental Biology
- Advanced Genetics
- Ethics & Research Science
- Journal Clubs
- Graduate Research Fundamentals

Advanced Electives

- Molecular, Cell and Organ Systems
- Immunobiology I
- Immunobiology II
- Genomics
- Macromolecular Interactions
- Molecular Microbiology & Pathogenesis
- Computational Molecular Biology
- Fundamentals of Computer Science

APPLICATION
DEADLINE

DECEMBER

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EXPLORE & APPLY:
tinyurl.com/dbbstour

For more information about the **DEVELOPMENTAL, REGENERATIVE,
& STEM CELL BIOLOGY** program and faculty research:

tinyurl.com/dbbs-drscbfaculty



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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*