

Genetics and Developmental Biology Area of Concentration



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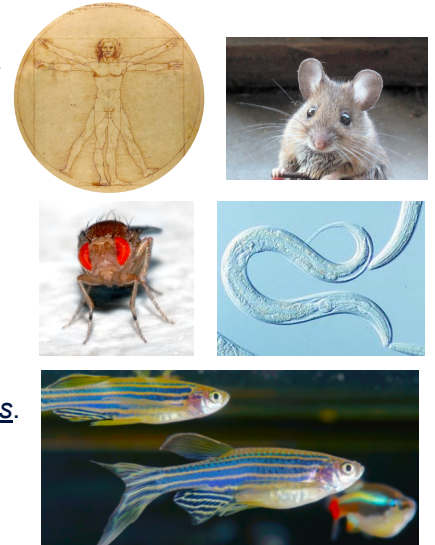
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Genomic Science T32 Program Locations



The Genetics and Developmental Biology area of concentration (GDB AoC) provides students with fundamental interdisciplinary training in modern **molecular genetics** and **developmental biology**, emphasizing cellular and molecular aspects as well as tissue interactions. Areas of research of varied including the identification of genes and regulatory regions responsible for disease, many aspects of RNA processing, molecular mechanisms of aging, signal transduction pathways, microbial pathogenesis, developmental neurobiology, cell differentiation, musculoskeletal development, morphogenesis and pattern formation, reproductive biology and endocrinology.

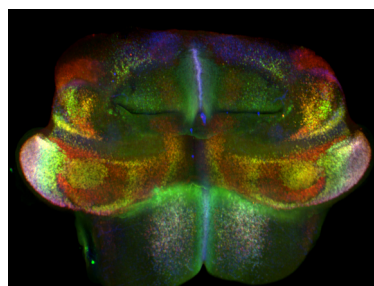
Faculty members are from several basic science and clinical departments across UConn Health and JAX GM. They utilize a wide range of model systems including yeast, parasites, worms, fruit flies, zebrafish, mice, and human stem cells. Students are encouraged to obtain in-depth training in molecular genetics and developmental biology as well as develop **computational skills** for the analysis of large biological datasets. Students have access to the latest **sequencing, microfluidic, and imaging** equipment enabling cutting edge multimodal research. The GDB AoC prepares students to compete for **job opportunities** in traditional academic laboratories, biotech/pharma industry, consulting, and scientific writing.



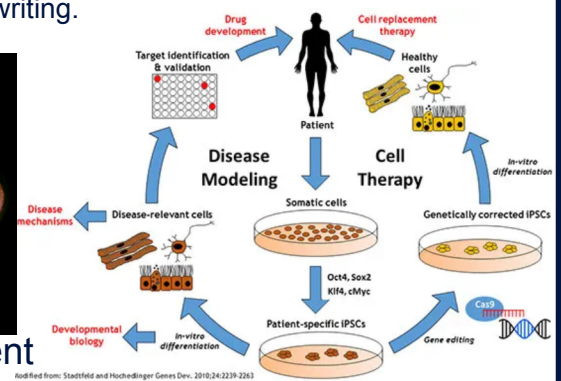
Diverse Model Systems



25 PhD candidates,
12 MD/PhD, DMD/PhD candidates



Integrating Development
and Genomics



Stem Cell Research