

Texas A&M Institute for GENOME SCIENCES AND SOCIETY

An innovative program that has the potential to vastly improve the lives of humans and animals and to advance agricultural productivity by leveraging one of Texas A&M's strengths: collaboration by outstanding faculty, students, and staff from several disciplines to address real-world issues.

The Texas A&M Institute for Genome Sciences and Society (TIGSS) functions as a virtual institute to unite and support scientists and trainees with cutting-edge core facilities supporting life sciences and biomedical research technologies to improve human, animal, and environmental well-being.

LET US HELP YOU MAKE YOUR
RESEARCH AS EASY AS 1, 2, 3.

1



Rodent Preclinical Phenotyping Core

- Behavior
- Metabolic/Skeletomuscular
- Cancer/Cardiovascular
- Histology
- Clinical Chemistry

2



Experimental Genomics Core

- Cell Biology
- Molecular Biology
- Sequencing

3



Bioinformatics Workspace

- TIGSS HPC Cluster
- Commercial Software
- Open Source Software

TIGSS CORE FACILITIES:

- ▶ **Rodent Preclinical Phenotyping Core (RPPC)** houses various instruments to measure and quantitate mouse physiology and behavior. Our team can help guide you at every step in your translational research. At the planning stages, we provide consulting to determine the optimal molecular, physiological and behavioral assays to address your research goals. We maintain a wide suite of equipment supporting metabolic, immune, skeletomuscular, cancer, cardiovascular, and behavioral assays for detailed phenotyping of mouse models. The RPPC houses 30+ state of the art pieces of equipment for all your phenotyping needs.
- ▶ **Experimental Genomics Core** is available to assist with any step of the experimentation process for molecular biology and genomic applications. We offer expert consultation to aid in experimental design and training and support for individuals that would like to learn the methods for sample isolation, preparation, sequencing, and analysis. This core houses 25+ cutting-edge instruments ready to accelerate your research.
- ▶ **Bioinformatics Workspace**
Life and biomedical sciences are at the cusp of disruption caused by the era of "big-data." We have vast experience in developing custom analysis pipelines and deploying various cutting-edge software solutions in high-performance computing environments for data science. We offer services ranging from training and consulting to full-service analysis solutions and provide access to a variety of commercial software packages.

TIGSS IMPACT

400+

SEQUENCING PROJECTS

460+

TIGSS FACILITY USERS

200+

PUBLICATIONS

CONTACT

David Threadgill
Director

dwt@tamu.edu
979.458.5678



Institute for Genome
Services and Society

genomics.tamu.edu
tigss@tamu.edu

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