



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) is founded on principles first laid out in the white paper proposal for the Whole Systems Genomics Initiative. Participation in TIGSS is open to all faculty, staff and students. Contributions in genetics and genomics by world-renowned scientists have advanced agricultural productivity, human and animal health, and have influenced economics, policy, ethics, geography and business. TIGSS functions as a virtual institute to unite genome scientists with researchers who study the social, economic, and ethical consequences and impacts of genomics technology, as well as bioinformatics scientists who conduct research on how to analyze and manage large datasets such as those generated by high-throughput genomics experiments.



THE GOALS OF TIGSS ARE TO:

- ▶ **Enhance educational excellence** and opportunities for undergraduate through postdoc training in the genetic and genomic sciences, and stimulate cross-fertilization of the natural and social sciences to enhance the the impact of genome science advances.
- ▶ **Expand infrastructure** and support for genome-scale research that contributes to improved human and animal well-being and environmental stewardship.
- ▶ **Increase visibility** and promote existing excellence and expertise in genomics, particularly in, but not limited to, the agricultural, medical, veterinary, and life sciences.
- ▶ **Connect people** and stimulate multidisciplinary collaborations both within and outside of Texas A&M.
- ▶ **Facilitate access to instrumentation** and computing hardware/ software research tools.
- ▶ **Support and enhance competition** for national and international awards.

TIGSS RESOURCES:

- ▶ Experimental Genomics Core and Shared Workspace
- ▶ Bioinformatics Workspace
- ▶ Rodent Pre-Clinical Phenotyping Core

TIGSS IMPACT

300+

SEQUENCING PROJECTS

300+

YEARS OF COMPUTATIONAL CPU USAGE

100+

PUBLICATIONS

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