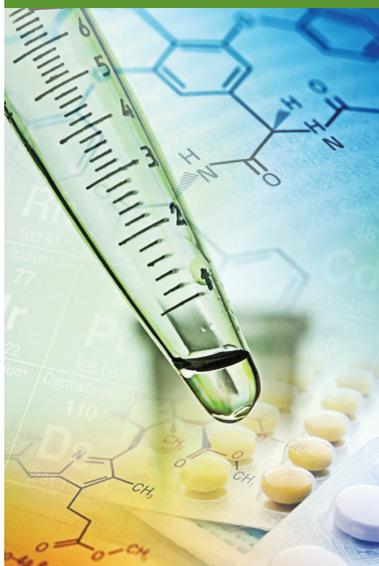


## AgriLife Research in Texas A&M University System Centers and Institutes



### **Center for Bioinformatics and Genomic Systems Engineering** *cbgse.tamu.edu*

A partnership between Texas A&M AgriLife Research and the Texas A&M Engineering Experiment Station to provide genomics, bioinformatics, computational biology, and systems biology research. Meets the next-generation sequencing and bioinformatics needs of The Texas A&M University System and the broader scientific community. This knowledge is applied to patient diagnostics and targeted drugs and vaccines for human health as well as to animal and plant sciences related to agriculture.

### **Institute for Infectious Animal Diseases** *iiad.tamu.edu*

Established by the Department of Homeland Security to conduct research, education, and outreach to prevent, detect, and recover from high-consequence animal and/or zoonotic diseases, such as foot and mouth disease, brucellosis, classical swine fever, and avian influenza. Received funding for development of an African swine fever vaccine using reverse vaccinology. Champions the One Health concept and has more than 100 research partnerships in the United States and around the world.

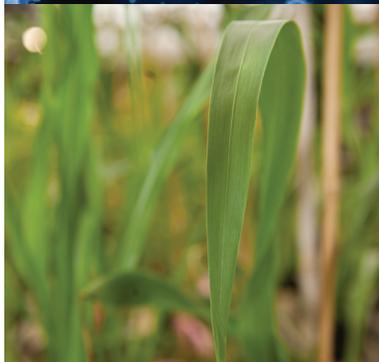


### **Institute for Plant Genomics and Biotechnology** *ipgb.tamu.edu*

Develops plant biotechnology, genomics, and related life sciences technologies; fosters the use of technology and crop improvement through multidisciplinary research on model plant systems and on field, forest, and horticultural crops. Develops transgenic plants for disease and stress resistance; performs DNA diagnostics for AgriLife Research and is home to the Texas Cotton Biotechnology Program. Studies insect-plant interactions, plant immune response, bioenergy, and bioinformatics. Faculty, students, and scientists from 14 units participate.

### **National Center for Electron Beam Research** *ebeam.tamu.edu*

World's leading organization focused on research, development, and commercialization of electron beam and X-ray technologies for multiple applications. Improves food safety, has methods for destroying microbial and chemical contaminants in wastewater and municipal sludge, develops novel vaccine platforms, develops safe hospital foods for cancer and transplant patients and packaged foods for long-term space missions, enhances functionality of artificial tissues and durability of medical implants, optimizes biofuels production by enhancing cellulosic breakdown.



### **The Norman Borlaug Institute for International Agriculture** *borlaug.tamu.edu*

Named in honor of Nobel Prize-winning agriculturist Dr. Norman E. Borlaug and modeled after his work, the institute designs and implements in-country and U.S.-based programs that help researchers, policy makers, and university faculty in developing nations to strengthen sustainable agricultural practices through scientific training and collaborative research. Employs agricultural science to feed the world's hungry and to support equity, economic growth, quality of life, peace, and mutual respect among peoples.

## **Texas A&M Institute for Genomic Medicine**

*tigm.org*

One of the world's largest sources of mouse knockout and embryonic stem cells for biological, genetic, and drug-design research favorable to intellectual property development. Provides embryonic stem cell clones and mice to the international research community. First-in-class high-throughput screening involves state-of-the-art robotic equipment and provides a unique way to use the genetic library of stem cells. Findings could strengthen our national defense by protecting against biological warfare agents or unforeseen emerging infectious diseases.

## **Texas A&M Institute of Renewable Natural Resources**

*irnr.tamu.edu*

Promotes the safety, security, and sustainability of land, water, and wildlife through interdisciplinary research and technology transfer, policy and economic analysis. Engages with land managers and policy makers to improve the management of natural resources. Programs in sustainable practices for private lands, water resources and watershed restoration, wildlife conservation and habitat management, military lands conservation stewardship, and environmentally friendly energy production practices. Also hosts the Gulf Coast Cooperative Ecosystem Studies Unit.

## **Texas Water Resources Institute**

*twri.tamu.edu*

Designated in 1964 as the water resources institute for the State of Texas. Collaborates with universities, governmental organizations, engineering firms, commodity groups, and environmental organizations. Conducts water resources research, demonstrations, and educational projects to improve and protect water quality; assesses and restores watersheds; helps to increase available water supplies and manage drought. Trains water resources professionals and works with stakeholders to increase understanding of critical water quality and quantity issues.

## **Vegetable and Fruit Improvement Center**

*vfic.tamu.edu*

Breeds fruits and vegetables that taste better, have more nutrients, tolerate heat and drought, and resist disease — including the maroon carrot, the sweet Texas 1015 onion, and the golden yellow mild habanero pepper. Has bred about 40 cultivars and identified 56 bioactive compounds that are important for health research and are worth an estimated \$6.3 million. Examines the biological activities of plant-based nutritional compounds using cutting-edge research techniques and tools.

## **About Texas A&M AgriLife Research**

*A member of The Texas A&M University System*

Established in 1888, Texas A&M AgriLife Research is the state's premier research and technology development agency in agriculture, natural resources, and the life sciences. Headquartered in College Station, AgriLife Research has a statewide presence, with scientists and research staff on other Texas A&M University System campuses and at the 13 regional Texas A&M AgriLife Research and Extension Centers. The agency conducts basic and applied research to improve the productivity, efficiency, and profitability of agriculture, with a parallel focus on conserving natural resources and protecting the environment. AgriLife Research has 550 doctoral-level scientists, many of whom are internationally recognized for their work. They conduct hundreds of projects spanning many scientific disciplines, from genetics and genomics to air and water quality. The annual economic gains from investments in Texas's public agricultural research are estimated at more than \$1 billion. Through collaborations with other institutions and agencies, commodity groups, and private industry, AgriLife Research is helping to strengthen the state's position in the global marketplace by meeting modern challenges through innovative solutions.

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