

**Texas A&M University-CONACYT Research Grant Program
2016 Awarded Proposals**

Mechanisms mediating Brucella intracellular parasitism

Paul de Figueiredo, Microbiology Pathogenesis and Immunology, Texas A&M
José Luis Puente García, Universidad Nacional Autónoma de México (UNAM)

Ecohydrology of Sonoran Desert Shrublands

Bradford P. Wilcox, Ecosystem Science and Management, Texas A&M
Alejandro E. Castellanos V., Universidad de Sonora (UNISON)

Dynamic corrosive modeling affecting reinforced concrete durability and reliability structures in the Gulf of Mexico

Homero Castaneda-Lopez, Materials Science and Engineering, Texas A&M
Pedro Castro Borges, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV IPN)

Did the Intertropical Convergence Zone (ITCZ) Modulate Late Holocene Hurricane Strikes on the Yucatan Peninsula

Peter J. van Hengstum, Marine Sciences, Texas A&M at Galveston
Luis M. Mejía-Ortíz, University of Quintana Roo (UGROO)

A land cover multispectral classification and IoT-based intelligent sensor management for real-time precision agriculture applications

Edgar Sanchez Sinencio, Electrical and Computer Engineering, Texas A&M
Alejandro Castillo Atoche, Universidad Autónoma de Yucatán

Chemical speciation and natural attenuation of arsenic, antimony, and heavy metals in soils and sediments contaminated by mine tailings

Youjun Deng, Soil and Crop Sciences, Texas A&M
Maria Aurora Armienta, Universidad Nacional Autónoma de México (UNAM)

Survey of RNA viruses in the Mediterranean Fruit Fly

Mariana Mateos, Wildlife and Fisheries Sciences, Texas A&M
José Pablo Liedo Fernández, El Colegio de la Frontera Sur (ECOSUR), Unidad Tapachula

Connectivity of large apex predators in the California Current Large Marine Ecosystem (CCLME) using natural tracers

David Wells, Marine Biology, Texas A&M at Galveston
Sharon Herzka, Ensenada Center for Scientific Research and Higher Education (CICESE)

Cyber-Enabled Assembly System Monitoring and Intelligent Prognostics

Sheng-Jen Hsieh, Engineering Technology and Industrial Distribution, Texas A&M
Jose A. Segura-Victorino, Center for Engineering and Industrial Development (CIDESI)

Border state beef production efficiency in México and the United States: Genomic improvement of early life fertility in heat tolerant cows

David Greg Riley, Animal Science, Texas A&M
Pablo Luna Nevárez, Instituto Tecnológico de Sonora (ITSON)

Special Research Program

Characterization of the cyclin dependent kinase gene(s) involved in the interaction between the cyclin D and retinoblastoma genes, and their function related to the cell cycle of the green microalga *Botryococcus braunii*

Timothy P. Devarenne, Biochemistry & Biophysics, Texas A&M

Edmundo Lozoya-Gloria, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV IPN)

Exploiting Biodegradable Packaging and Electron Beam Pasteurization for Fruits and Vegetables to Develop Healthy Vending Food Items

Suresh D Pillai, Nutrition and Food Science and Poultry Science, Texas A&M

Tomás J. Madera-Santana, Centro de Investigación en Alimentación y Desarrollo (CIAD)