

## **Texas A&M University-CONACYT Research Grant Program 2019-2020 Awarded Proposals**

### **Mechanisms of the Interplay between Protein Glycosylation and Ca<sup>2+</sup> Regulation in Normal and Pathological Conditions**

Vladislav Panin, Biochemistry and Biophysics, Texas A&M

Agustin Guerrero-Hernandez, Centro de Investigación y de Estudios Avanzados del Instituto Politecnico Nacional (CINVESTAV-IPN)

### **Enhancing Shark and Ray Conservation in the Gulf of Mexico through Natural Tracers in Vertebrae**

David Wells, Marine Biology, Texas A&M Galveston

Oscar Sosa-Nishizaki, Centro de Investigación Científica y Educación superior de Ensenada (CICESE)

### **Preserving the Monarch Butterfly Migration: Spatial Assessment of Monarch Roadkill Risk and the Potential for Roadkill Mitigation in Mexico**

Robert N. Coulson, Entomology, Texas A&M

Rogelio Carrera-Treviño, Universidad Autónoma de Nuevo León (UANL)

### **Gas Bearings Implementation and Dynamic Evaluation in a Turbomachine Application**

Luis San Andres, Mechanical Engineering, Texas A&M University

Juan Carlos Jauregui Correa, Universidad Autónoma de Queretaro (UAQ)

### **The Ecological and Social Impacts of Regenerative Ranching in Mexico's Sierra Madre Oriental**

Gil Rosenthal, Biology, Texas A&M

Lucrecia Arellano Gámez, Instituto de Ecología, A. C. (INECOL)

### **Development and Application of UAV Image Sensing for Coastal Environmental Studies**

Kuang-An Chang, Environmental Engineering, Texas A&M

Alec Torres-Freyermuth, Universidad Nacional Autónoma de México (UNAM)

### **Radiative Cooling of Perovskite Solar Cells**

Zi Jing Wong, Aerospace Engineering, Texas A&M

Xavier Mathew, Universidad Nacional Autónoma de México (UNAM)

### **Foliar Endophytes for Pest Management in Maize**

Sanjay Antony-Babu, Pathology and Microbiology, Texas A&M

Maria Julissa Ek-Ramos, Universidad Autónoma de Nuevo León (UANL)

### **Evaluating the Multiple Threats of White-Nose Syndrome and Loss of Foraging resources to the Endangered key pollinating bat *Leptonycteris nivalis***

Thomas E. Lacher, Wildlife and Fisheries Sciences, Texas A&M

Emma P. Gómez-Ruiz, Universidad Autónoma de Nuevo León (UANL)

**Effects of a Changing Climate on a Habitat-Forming Species Range and Biodiversity**

Laura J. Jurgens, Marine Biology, Texas A&M Galveston

Alicia Abadía-Cardoso, Universidad Autónoma de Baja California (UABC)