



2017 Collaborative Research Grant Awardees

Elodie Strupiechonski,
Mikhail Belkin

Compact, Room-Temperature Solid-
State Terahertz Imaging System

CINVESTAV,
The University of Texas at
Austin

Gabriel Luna Bárcenas,
Lydia Contreras

Bacteria-Mediated Synthesis of Metal
Nanoparticles from Bioremediation of
Contaminated Waters Along the U.S.-
Mexico Border

CINVESTAV,
The University of Texas at
Austin

Slavisa Djordjevic,
Jasang Yoon

Generalization of Fredholm Theory
and Commuting N-Tuples of
Operators

Benemérita Universidad
Autónoma de Puebla,
The University of Texas
Rio Grande Valley

Óscar Flores Villela,
David Hillis

Conservation and Integrative
Taxonomy of Mexican Leopard Frogs
(*Rana pipiens* Complex)

Universidad Nacional
Autónoma de México,
The University of Texas at
Austin

Armando Hernández
García,
Ilya Finkelstein

Designing Advanced Artificial Viruses
for Gene Delivery and DNA
Nanotechnology

Universidad Nacional
Autónoma de México,
The University of Texas at
Austin

Alberto Herrera Gómez,
Robert Wallace

Nitridation of High-K Dielectric
Nanofilms as a Barrier to Indium and
Gallium Diffusion in InGaAs-Based
MOS Devices

CINVESTAV,
The University of Texas at
Dallas

Jorge Manzo,
Fidel Santamaría

The Effects of Natural and Social
Behavior on the Molecular and
Electrophysiological Properties of the
Autistic Cerebellum

Universidad Veracruzana,
The University of Texas at
San Antonio

Mario Henry Rodríguez,
David Walker

Gene Expression Associated with
Tick Immunity and Ehrlichial Biology
in the Tick Host

Instituto Nacional de Salud
Pública,
The University of Texas
Medical Branch

Priyadarsi Debajyoti Roy,
Timothy Shanahan

Climate, Vegetation and Landscape
Disturbance on Centennial to
Millennial Timescales in NE Mexico
and Texas

Universidad Nacional
Autónoma de México,
The University of Texas at
Austin