

2020 Collegiate Academy
Awards
for
Undergraduate Presenters

Best in Section
Undergraduate
Posters

Biomedical Sciences Poster

Jesus Garcia

University of Texas at El Paso

Bacteriophage purification and propagation for
Pseudomonas aeruginosa.

Cell and Molecular Biology Poster

Sebastian Torres

Stephen F. Austin State University

Comparative expression analysis of brown and black widow
toxins.

Chemistry and Biochemistry Poster 2nd Place

TBA

Chemistry and Biochemistry Poster 1st Place

tba

Freshwater Science Poster

Fernando Montalvillo

University of Texas of the Permian Basin

ZnO and TiO₂ embedded in photocatalytic styrene and acrylate resin
for biofilm degradation studies.

Geosciences Poster

Luke Whitenburg

Stephen F. Austin State University

Magnetite study in the Lake Nacogdoches area.

Mathematics and Computer Science Poster

Miryam Galvez

Southwestern University

Using Python to question sincerity in Doodle polls.

Neuroscience Poster

Amy Joffrion

University of Texas at Tyler

Zebrafish used as a nicotine screening tool to identify potential drugs to inhibit smoking in humans.

Plant Biology Poster

Brianna Douglas

Abilene Christian University

Molecular investigation of biogeographic origins among populations of *Mentzelia dispersa* (Loasaceae) from western North America.

Terrestrial Ecology and Management Poster

Amanda Scamardo

Collin College

How stand age can affect carbon storage in a subtropical, deciduous forest.

Best in Section
Undergraduate
Oral Presentations

Texas Academy of Science

Anthropology

Oral Presentation

Samantha Hopper

Concordia University

Crowding and food quality significantly affect blowfly
(*Lucilia sericata*) larval development and mPMI estimation.

Biomedical Sciences
Oral Presentation

Kamri Knippa

Wayland Baptist University

Cytotoxic effects of various plant extracts on
breast cancer cell line MB453.

Cell and Molecular Biology
Oral Presentation

Jared Rodriguez

Wayland Baptist University

Redefining the threshold for tRNA gene cluster arrays in bacteria genomes using an in-house computational gene spacing algorithm and Java Script Programs.

Conservation Ecology Oral Presentation

Sara Moore

Sam Houston State University

A comparison of Carolina wren nestling begging behavior
and growth in urban and rural environments.

Freshwater Science
Oral Presentation

Josiah Moore

Temple College

Population density differences of the invasive zebra mussel
in two Central Texas Lakes.

Amir Moez Award in Mathematics,
Mathematics and Computer
Science Section

Aurod Ounsinegad

Tarleton State University

Increase in exposure rates of the Eastern Equine
Encephalitis Virus from the Black-Tailed Mosquito to avian
species: a mathematical approach.

Neuroscience
Oral Presentation
Anna Sheraz

University of Texas at Tyler

The use of concatemer subunit constructs to study the pharmacology of $\alpha 4$ - and $\alpha 4^*$ -containing neuronal nicotinic acetylcholine receptor

Plant Biology
Oral Presentation

Emily Martinez

University of Mary Hardin-
Baylor

DNA barcoding in the species of Chlorococcum algae.

STEM Education Biology
Oral Presentation

Edna Tepezano

University of Texas at El Paso

Quality control in on-line peer-led workshops.

Terrestrial Ecology and Management

Oral Presentation

TIE for 1st Place

Sarah Macha

Wayland Baptist University

Home range and spatial movement of Texas horned lizards
(*Phrynosoma cornutum*) in The Southern High Plains of
Texas.

Terrestrial Ecology and Management

Oral Presentation

TIE for 1st Place

Erin McGilvray

University of Texas at Austin

Conservation potential of symbolic state herpetofauna in
the United States.