

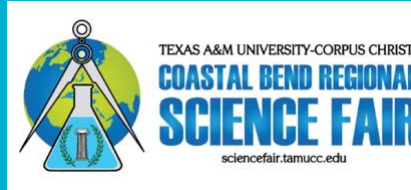


TEXAS A&M UNIVERSITY-CORPUS CHRISTI

**COASTAL BEND REGIONAL
SCIENCE FAIR**

sciencefair.tamucc.edu

February 14, 2025



Secondary Awards

Special Awards

2025

American Psychological Association

Ethan Cronkhite



Association for Women Geoscientists

Orli Pollack



Environmental Protection Agency (EPA)

Matthew Caaren



Lemelson Early Inventor Prize

Katalina Huerta



NASA Earth System Science Award

Orli Pollack



National Oceanic and Atmospheric Administration

Tanishka Sinha



Regeneron Biomedical Science Award

**Armando Ortega
&
Rusty Bell**



Ricoh USA, Inc.

Adelina Bell & Katelina Rendon



Society for In Vitro Biology

Piper Colston



U.S. Agency for International Development (USAID)

Soaham Kumar



U.S. Metric Association

Tanishka Sinha



Yale Science & Engineering Association

Sharmada Palakurthi



Stockholm Water Prize - Grade 6-8

Third:

Hugo Vidana

Second:

Wyatt Schrank

First:

Connor McIntyre



Stockholm Water Prize - Grade 9-12

Third:

Benjamin Ragland

Second:

Piper Colston

First:

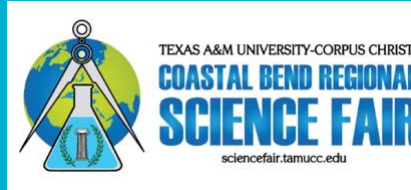
Orli Pollack



Stockholm Water Prize - Regional Water Prize Award

Orli Pollack





Grades 6-8 Category Awards 2025

Animal Science (ANIM)

Third: Maelee Morris

Do all Dogs have a Favorite Toy

Second: Jaycee Johns

The Hangry Laydies

First: Andrea Conkey

Where will you find the glow?



Behavioral and Social Sciences (BEHA)



Third: Leilah Becerra-Olivo & Laura Kiukaitis

Color vs. Flavor

Second: Jacey Rodriguez

AI at School: The Knowledge Gap

First: Zairah Qadri

The Impact of Global Warming on Locomotory Behavior

Biochemistry (BCHM)

Third: Samantha Olinick

Do energy drinks affect your teeth?

Second: Diya Bhakta

Glucose Levels of Fruit

First: Jolie Casas

The Insulin Pill Puzzle: Why Can't We Just Swallow It?



Biomedical & Health Sciences (BMED)

Third: Mohammad Qadri

Adverse Effects of Laser Hair Care: A study on Yeast Cells



Second: Gianna Vasquez

What is the Best UV Sunscreen Protectant? Chemical or Mineral?

First: Katalina Huerta

The Visionary Stick

Biomedical Engineering (ENBM)

Second: Saul Rangel

Slime Time

First: Kinzey Martinez

Artificial Pancreas Technology



Cellular & Molecular Biology (CELL)

Second: Amiyah Cabrera & Adrienne Garcia

So much damage

First: Emma Torres

Experimenting with Different Types of Water



Chemistry (CHEM)



Third: Peyton Timmons

Electrolytes: Replenish, Rehydrate, Recharge

Second: Robert Nollen III

Fatal Fruit

First: Chloe Valdez

IS A SILENT KILLER SEEPING THROUGH YOUR FLOOR

Earth and Environmental Sciences(EAEV)

Third:Annabelle Benavidez

Fresh water vs salt water: who handles a

Second:Dev Patel

Colors matter

First: Connor McIntyre

Desalination Plants Affect on Marine Life



Embedded Systems (EBED)

First: Olivia Carrillo

Why is my WiFi lagging?



Energy: Sustainable Materials & Design (EGSD)

Third: Katy Wiesen

Wind Turbine Energy

Second: Jaiya Bindingnavele

It Makes Acents

First: Aiden Kim

The Impact of Water Type, Alkalinity, and Current Input on Green Hydrogen Production Efficiency in Water Electrolysis



Engineering Technology: Statics & Dynamics (ETSD)

Third Place: Ryan Renderos
Transformers

Second Place: Ava Garza
Aerodynamic Gliders

First Place Josefina Orines
Sail Away, Sail Away, Sail Away



Environmental Engineering (ENEV)

Third: Jolynn Xiao

AquaDew: Turning Air into Water

Second: Kate Hernandez Menes

Building a Carbon-Free Future: Exploring Optimal Conditions for Carbon Capture

First: Annabelle Cronkhite

A Novel Approach to Oil Remediation Through The Use of Human Hair



Materials Science (MATS)

Third: Mariia Tsvetkova

Plastics: A New Approach

Second: William Lovelady

What cleaning substance will remove rust the best using an ultrasonic cleaner?

First: Ali Mahdy

Revealing the Unseen: Effect of Window Tinting on UV Exposure



Mathematics (MATH)



Third: Tate Gonzalez, Jonathan Juarez, Nikhilesh Luera

Normal Rim vs Double Rim

Second: Riley Gonzalez

CardioCraft

First: Elliana Elizaondo & Aubrey Guzman

Soggy Cereal

Microbiology (MCRO)

Third: Isabella Rodriguez & Lily Martinez

Are your hands clean?

Second: Ambree Balboa & McKinley Guajardo

Germ Hotspot hunt

First: Marta Palma

5 second rule



Physics & Astronomy (PHYS)

Third: Cora Lamoure

Levitating Bullet Train

Second: Matthew Hernandez & Andrew Martinez

Blood Spatter Surfaces

First: Luke Lamb

The Sounds of Science: Water Cymatic Vibrations



Plant Science (PLNT)

Third: Maia Peterson

The Musical Garden

Second: Sara Mapa

Skyward Sprouts: Growing Green in Microgravity

First: Allyson Tinana

Plant, M.D. - Diagnosing Diseases with Artificial Intelligence



Robotics & Intelligent Machine (ROBO)

Third: Sophia Perez

AI Photography Turing Test

Second: Aiden Fuentes, Xzavier Perez, Alecander Galvan
Roven the S.O.C.

First: Shaun Overstreet, Ozzy Perez, Asten Branch
Marstery



System Software (SOFT)

Third: Jaxon Gonzales

How to make an unbeatable Tic Tac Toe AI Player

Second Place: Dana Kim

AI-Powered Malware Watcher Robust to Adversarial Attacks

First Place: Alyson Gonzalez

AIR GAP III



Technology Enhances the Art (TECA)

Second: Sofia Gonzalez

Is It Real?

First: Eliana Arroyo

Discriminating AI



Translational Medical Science (TMED)

Third: Noah Zamora

Go with the Flow

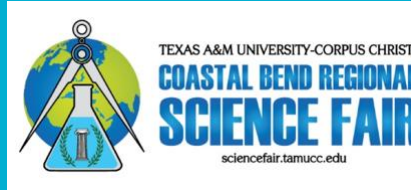
Second: Knox Kubena

The Future of Diabetes

First: Anderson Dye

Does pH Affect the Solubility of Acetaminophen?





Grades 9-12 Category Awards 2025

Animal Science (ANIM)

Third:

Sophia Pena

Which Manure Fertilizes the Best



Second:

Katelina Rendon & Adelina Bell

Evaluation of extent and rate of dry matter degradation of perennial peanut and pearl millet Ñ— napiergrass by rumen microbes in vitro

First:

Evelyn Bieze

Fueling Feathered Growth

Behavioral & Social Sciences (BEHA)

Third:

Amaris Torres

Does Color Affect Taste?

Second:

Daniella Villarreal

Mandela Effect

First:

Caydenn Angeles, David Lee, Naden Ramirez

The Halo On Your Head



Biochemistry (BCHM)

Second:

Maria Mahmood & Nada Ahmed
Catalysts in Action

First:

Rusty Bell & Armando Ortega
Snake Venom Phospholipases A₂ and Hyaluronidases:
Catalysts of Tissue Degradation and Pathway to Novel
Therapeutics



Biomedical & Health Sciences (BMED)

Second:

Briseida De La Cruz

Is memory affected depending on your personality?

First:

Sharmada Palakurthi

Discovery and development of novel metabotropic glutamine receptor 2 (mGLUR2) agonists for the treatment of nicotine addiction: A preclinical in vitro and in vivo study



Biomedical Engineering (ENBM)

First:

Teresa Morales

Pain Reliever Dissolve Times: Brand vs. Generic



Chemistry (CHEM)

Third:

Alberto Ibanez

How greasy are your potato chips?

Second:

Nathanial Belcher

Effects of Different Solvents on the Absorption of Light on a Dye

First:

Saara Bindingnavele

Acids & Bases



Earth & Environmental Sciences (EAEV)

Third:

Emma Longoria & Jenelle Maldonado

Neutralizing Soil Acidity with Common Household Products

Second:

Lizbeth Guerrero

The Ability of Earthworms

First:

Orli Pollack

Wind Tidal Wonders: Unlocking the Potential of Blue-Green
Algae



Embedded Systems (EBED)

Second:

Isabel Ramos, Leslie Davis, Ja'Shaud Johnson

Mold Be Gone!

First:

Ronit Verma

**Earthquake Detection System: A Novel and
Inexpensive Method to Mitigate Earthquake Damage and
Disaster**



Environmental Engineering (ENEV)

Third:

Matthew Caanen
Harnessing the sun

Second:

Tanisha Sinha
Air quality assessment in Corpus Christi Area

First:

Soaham Kumar

Developing an ecofriendly, cost effective,
commercial grade Bio Slips

(Biological structure insulated panel for hurricane proof home)



Material Science (MATS)

Third:

Jaycee Gonzalez
Energy in motion

Second:

Aylin Garza & Claire Smith
UV Radiation Protection

First:

Benjamin Ragland
Conductive Liquids



Mathematics (MATH)

First:

Gregorio Cruz

Artificial or Authentic? The Perception Experiment



Microbiology (MCRO)

Second:

Karla Galavis & Allison Pulido

Beyond the Bite

First:

Noah Rosenbaum

Microbe Exterminator



Physics & Astronomy (PHYS)

Third:

Xam Eroy

Investigating the Effects of Accretion and
Thermal Runaway in White Dwarf Evolution
Using Modules for Experiments in Stellar Astrophysics



Second:

Clarissa Gonzalez

Which heat protectant will provide the best protection against the
heat applied?

First:

Unal McLauchlan

A Novel Use of Paper for Light Energy Attenuation

Plant Sciences (PLNT)



Third:

Emma Valenzuela & Madeline Valenzuela

Does Cotton Seed Size Effect Germination?

Second:

Carina Sanchez

Natural vs Artificial

First:

Piper Colston

How will Different Aqueous Solutions Affect Plants?

Robotics & Intelligent Machines (ROBO)

Second:

Chad Aguilar

Red planet greenery

First:

Eli Walker

Predicting Heart Disease with Artificial Intelligence



Systems Software (SOFT)

First:

Trustea Davila

Cybersecurity: How Secure is your Personal Information?



Technology Enhances the Arts (TECA)

Second:

Samantha Perez
Plucking the Waves

First:

Cuauhtemoc Zamora
Color Through Touch: Using Haptic Feedback for Visual
Assistive Application



Translational Medical Science (TMED)



Third:

Annabelle Taylor

Turning Mice Translucent: The Possibilities of Yellow Dye 5

Second:

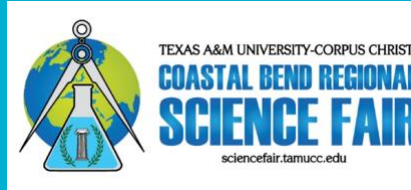
Madeline Dye

*Sodium Alginate Crosslinked Hydrogel for
Enhanced Wound Healing*

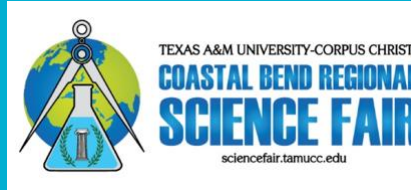
First:

Ethan Cronkhite

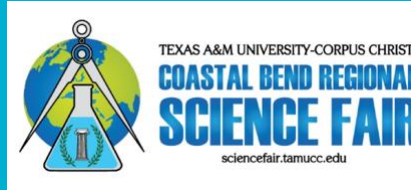
*A Novel Approach to Treating Neuropathy
Through The Using of Dryneedling*



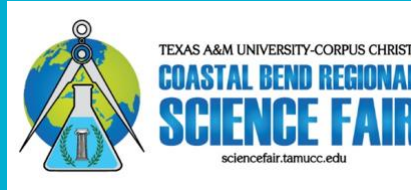
Best in Division - Junior



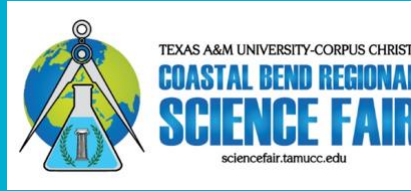
Andrea Conkey



Best in Division - Senior



Sharmada Palakurthi



Projects Advancing to State

Junior Advancing to State

Adrienne Garcia

Aiden Kim

Alden Fuentes

Aleczander Galvan

Ali Mahdy

Allyson Tinana

Alyson Gonzalez

Ambree Balboa

Amiyah Cabrera

Anderson Dye

Andrea Conkey

Andrew Martinez

Annabelle Benavidez

Annabelle Cronkhite

Asten Branch

Aubrey Guzman

Ava Garza

Chloe Valdez

Connor McIntyre

Cora Lamoure

Dana Kim

Dev Patel

Diya Bhakta

Eliana Arroyo

Elliana Elizondo

Emma Torres

Gianna Vasquez

Jacey Rodriguez

Jaiya Bindingnavele

Jaycee Johns

Jolie Casas

Jolynn Xiao

Josefina Orines

Katalina Huerta

Kate Hernandez Menes

Kinzey Martinez

Knox Kubena

Luke Lamb

Maia Peterson

Mariia Tsvetkova

Marta Palma

Matthew Hernandez

McKinley Guajardo

Oliva Carrillo

Ozzy Perez

Peyton Timmon

Riley Gonzalez

Robert Nollen

Sara Mapa

Saul Rangel

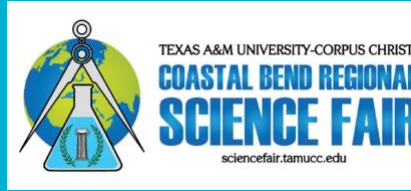
Shaun Overstreet

Sofia Gonzalez

William Lovelady

Xzavier Perez

Zairah Qadri



Projects Advancing to State

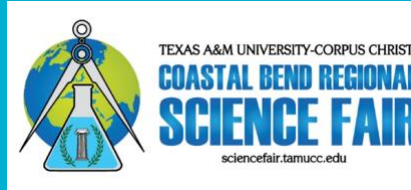
Senior Advancing to State

Evelyn Bieze
Katelina Rendon
Adelina Bell
Cayden Angeles
Daniella Villarreal
Rusty Bell
Armando Ortega
Nada Ahmed
Maria Mahmood
Sharmada Palakurthi
Briseida De La Cruz
Teresa Morales
Saara Bindingnavale
Nathanial Belcher
Orli Pollack
Lizbeth Guerrero

Ronit Verma
Isabel Ramos
Soaham Kumar
Tanishka Sinha
Benjamin Ragland
Claire Smith
Aylin Garza
Gregorio Cruz
Noah Rosenbaum
Karla Galavis
Allison Pulido
Unal McLauchlan
Clarissa Gonzalez
Piper Colston
Carina Sanchez

Elia Walker
Chad Aguilar
Trustea Davila
Cuauhtemoc Zamora
Samantha Perez
Ethan Cronkhite
Madeline Dye





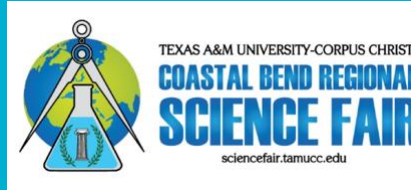
Thermo-Fisher Scientific Junior Innovators Challenge Awards

Thermo-Fisher Awards

Andrea Conkey
Zairah Qadri
Jolie Casas
Katalina Huerta
Kinzey Martinez
Emma Torres
Chloe Valdez
Connor McIntyre
Olivia Carrillo
Aiden Kim
Josefina Orines
Annabelle Cronkhite

Ali Mahdis
Elliana Elizondo
Aubrey Guzman
Marta Palma
Luke Lamb
Allyson Tinana
Shaun Overstreet
Ozzy Perez
Asten Branch
Alyson Gonzalez
Eliana Arroyo
Anderson Dye



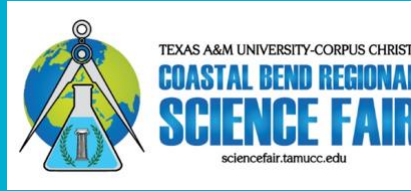


ISEF

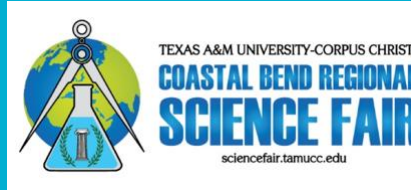
ISEF

Sharmada Palakurthi & Cuauhtemoc Zamora

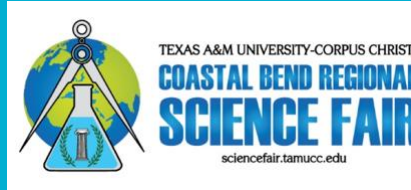




Best in Show



Chloe Valdez



All Category Winners must stay for a brief overview of the TXSEF following awards.

TXSEF 2025 College Station, Texas

March 28-29, 2025

- A link will be sent to you to indicate your attendance at TXSEF. This is DUE February 16, midnight.
- All projects must be approved by us and sent to state SRC By Friday, February 21st.
- After you have been approved by State SRC, you can register for TXSEF.
- All State Registrations must be completed by parents by March 5th.
- A 2-minute video AND a virtual board are submitted during state registration.
- Please monitor your STEM Wizard messages!

