



Celebration
of
Academic Excellence

Tenth Annual Research Colloquium

Poster Presentations

November 7, 2023

8:00 am – 9:00 am

Cumberland University

Lebanon, Tennessee

Dallas Floyd Phoenix Arena

Edward A. Labry School of Science, Business, and Technology

Science

Time Flies; Michael Rosbash's Study on Circadian Rhythm
Mr. Hussain Al-Turaihi and Mr. Egon Chen

Oops! All White: The Pigment Repressor MITF
Ms. Jocelyn Buchannan and Ms. Abigail Minchey

TYR: The Tyrant of Melanocytes
Mr. Alexander Chansler and Ms. Alana Medlin

David Julius: Too Hot to Handle
Ms. Emily Foster and Mr. Cody Woodham

TRICKS OR TREATS? How Effective Are Over-The-Counter Canine Dental Hygiene Products?
Ms. Hailey Givens and Mrs. Brianna Troyer

The PTEN Puzzle: Deciphering Its Role in Cancer
Ms. Morgan Harlin and Ms. Lexie Stacey

DRD4 and its Association with ADHD
Mr. Dylan Hudson and Mr. Paxton Junkin

The Godfather of Cloning: Nobel Prize Winning Biologist John B Gurdon
Mr. Nathan Johnston and Mr. Kayleb Stafford

Effects of SPINT1/Hai-1 on Cancer in Different Animals
Ms. January Ohana and Ms. MaRiyah Person

Teaching Intermolecular Forces Using an Authentic Learning Experience
Ms. Kathleen Oliver

The Axillary Microbiome: How Fresh Are You Really?
Ms. Clea Semen, Ms. Isabella Sorce, and Ms. Brenna Swiger

Eggs-ploring the Reproductive Process of Egg-Laying Mammals
Ms. Rebecca Brown, Ms. Emilyn Hashimura, and Ms. N'dia Metcalf

Physiology of Venom Production in Mammals
Ms. Clara Eck, Ms. Marina Fekry, and Ms. Melanie Garcia,

Cardiovascular Circulation in Giraffes vs. Sauropods
Ms. María Arbelaez, Mr. Christian Oleka, and Ms. Reed Steplowski

Synthesis of Lysergic Acid Diethylamide (LSD)
Mr. Ian Krump and Mr. Michael Manning

Synthesis of Organic Aerogel
Mr. Jorge Segovia and Ms. Stephanie Stilts

Business

The Role of EEOC and its Influence
Mr. Aime Tuyisunge

The Jeanette Cantrell Rudy School of Nursing & Health Professions

Nursing

Burnout Takes Over Healthcare

Ms. Lyndsey Barnard, Ms. Anna Duemler, Ms. Sarah Greenfield, Ms. Hoda Ismail, Ms. Yamilet Pineda, and Ms. Mackenzie Vantrease

Unmasking the Struggle: Exploring Children and Adolescent's Mental Health During the Pandemic

Ms. Morgan Bragg, Ms. Emmanuella Fosu, Ms. Emy Grubbs, Ms. Danica Ito, and Ms. Savannah Smith

The Stigma in Obese Youth is Gaining Weight

Mr. Anthony Calderon, Ms. Lindsey Freeman, Ms. Josie Hancock, Ms. Guadalupe Lara-Munoz, and Ms. Ashley Lynch

When A Child Has a Chronic Illness So Does Their Family

Mr. Steven Curley, Ms. Melissa Greene, Ms. Caitlin Hooper, Ms. Kristen Jones, and Ms. Kaylee Martin

WHY IS THE WORLD SO LOUD? Educating Nurses on Preventing Overstimulation in Children with Autism

Ms. Julia Akins, Ms. Carol Anne Clanton, Ms. Maggie Gibbs, Ms. Kaitlin Higgins, Ms. Alyssa Jones, Mr. Clark Leddon

Exercise and Sport Science

Student Retention in Higher Education: A Case for the Stay Interview

Ms. Ebony Carey and Mr. James Schremmer

Faculty and Staff Retention in Higher Education: A Case for the Stay Interview

Ms. Naomi Napier and Ms. Clara Sanders

Cognitive Behavioral Based Physical Therapy to Improve Functional Outcomes in Patients with Chronic Ankle Instability: A Pilot Randomized Control Trial

Ms. Nicole Bott

Attrition in the Professional of Athletic Training

Ms. Victoria Johnson

Balancing Work and Social Life in Healthcare Professions

Ms. Brianna Nagelhout

Career Transition Out of Collegiate Sport: The Role of Athletic Departments and Athletic Trainers

Ms. Amari Thompson

Mental Health and Athletic Injuries

Mr. Tre'Shaun Whitfield

The Millard and J.J. Oakley School of Humanities, Education, and the Arts

Criminal Justice

How Not to Get Away with Murder

Ms. Kinley Brown, Ms. Jenna Kerr, Mr. Carter Rost

How To Get Away with Murder

Mr. Christian Jenkins, Mr. Kaden Kuehler, and Ms. Leila Petersen

Identical DNA, Different Fingerprints

Ms. Brenda Cernas, Mr. Alejandra Fructuoso, Ms. Bailey Pope, and Ms. Mari Sagstad

Untested, Unserved

Mr. Jesse Cochran

A Mind for Murder

Mr. Braden Huff

Bugging the Crime Scene: A Forensic Entomologist's Perspective

Mr. Jeremy Martin

Forensic Analysis of Exit Wounds and Bullet-Resistant Armor

Mr. Preston Olivier

Death, Decay, and Whatever is Happening to That Body in Nature

Ms. Audrey Spence

Killer's Best Friend

Mr. Ethan Torres

The Dangers of Altering Fingerprints

Mr. Preston Creswell, Mr. Jayden Jobe, and Mr. Treyvon Wiggins

History

The Crusades and the Byzantines

Mr. Alex Dickens

Blitzed: Drug Use in the Allied and Axis Forces in World War II

Mr. Alex Kolesnikoff

Leadership in the War of 1812

Mr. Trevor Napier

The Missing Generation of Women: Male-Preference and the One-Child Policy in China

Mr. J.C. Nichols

Women and Education in 19th Century America
Ms. Alexis Tomlinson

Psychology

Acculturative Stress Progression
Ms. Rachel Krogman and Ms. Brianna Nunez

University Mental Health Services Utilization and Academic Performance
Ms. Sarah Hazen and Mr. Ethan White

Fueling Your Body: A Study of Dietary Differences Between Residential and Non-Residential College Athletes
Ms. Olivia Duran and Ms. Ida Furuheim

Are Residential Students at an Academic Advantage Over Commuter Students?
Ms. Madeline Fleming and Mr. Hunter Sircy

The Relationship Between the Areas of Study on Campuses and Views on the Judicial System
Ms. Clara Simms and Ms. Taylor Watkins

An Examination of the Relationship Between Locus of Control and Conformity in a Male Population
Ms. Carolina Garcia and Mr. Dawson Mathis

Exploring the Effects of Minority Status on Depression and Anxiety
Mr. Jacob Edgerley and Ms. Natalie Moreno

Pop Quiz: How Attendance Affects Test Anxiety
Ms. Laredo Hixson and Ms. Olivia Powers

The Link Between a True Crime Obsession and Empathy
Ms. Alexandria Trull

ADHD & Anxiety: Bad Luck or Comorbidity?
Ms. Karrigan Bludworth