



Celebration

of

Academic Excellence

Seventh Annual Research Colloquium

Poster Presentations

November 2-6, 2020

Cumberland University

Lebanon, Tennessee

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

Business

Equal Workload

Ms. Alyssa Brim, Mr. Thomas Chase, and Mr. Tanner Woodall

To Be or Not to Be #MeToo?

Ms. Madison Dinwiddie, Ms. Haley Stevens, and Mr. Carlos Hernandez

Quid Pro Quo

Mr. Steven Watson, Ms. Brittany Herman, and Ms. Katie Overton

Opioid Crisis

Presenters: Mr. Dustin Smith, Ms. Sarah Davis, Ms. Lexy Chaffin, and Dr. Christi Griffin

Science

Unfolding the Truth About Prions

Mr. Anthony Calderon

Coding a Murderer

Ms. Shelby Anne Conner

Lighting Up Life

Mr. Josh Croley

The Ticking of the Clock: Michael Rosbash's Nobel Prize Journey

Ms. Chloe Dixon

The Dendritic Cell and its Unique Capacity to Activate Adaptive Immunity

Ms. Samantha Dyer

COMT: Are You a Frenzied Worrier or Task-Smashing Warrior?

Mr. Andrew Frisch

The Engagement of the Immune System in Cancer Treatments

Ms. Kim Gonzalez

Frances Arnold and Her Work with Enzymes

Ms. Rachel Hale

Inheritance Patterns of Breast Cancer

Ms. Lauren Henson

The Nobel Prize Also Speaks Spanish

Ms. Jessica Hernandez

The Newest Superpower: Super Sleeping with ADRB1

Ms. Madeline Herndon

From Intercourse to Outercourse: The Robert Edwards Story

Ms. Natalie Hershey

ACTN Like an Athlete

Ms. Haley Holt

Thick Skinned: ABCA12 Gene and its Role in Harlequin Ichthyosis
Ms. Lacy Huffman

Got Oxygen?
Mr. Cesar Hurtado

Aposematic Melanin
Mrs. Dorothy Jensen

The Discovery of Prions and the Neurodegenerative Diseases They Give Rise to.
Mr. Will Marsh

Hybrid DNA: Artificial Manipulation
Ms. Allison Maynard

Checking the Scale: How Weight Predicts Birth and Death in Animals
Ms. Stefanie Navaratnam

The Discovery of HIV
Ms. Oumie Njie

Don't Let SLC6A15 Bring You Down
Ms. Jenifer Perez

Sirtuin-6, The Elixir of Longevity
Ms. Sasha Petrova

The Genetics of Tourettes
Ms. Ashttan Sims

My, What Long Telomeres You Have!
Ms. Jensen Taylor

Polycystic Ovarian Syndrome (DENND1A)
Ms. Kelci Williams

Dark Side Discoveries of DNA Repair
Ms. Andrea Woywitka

GTF2I: The Gene that Makes Your Dog Friendly
Ms. Samantha Yates

Nicotine, The Chemical That Takes your Breath Away...
Ms. Luciana Arena

Synthesis and Isolation of Amphidinolide H
Ms. Destiny Barnes

The Synthesis and Isolation of the Molecule Phenol
Ms. Abigail Beckett

Isolation of Cinnamaldehyde

Mr. Noah Chance

Psilocybin: It's Totally Psychedelic

Ms. Remi Clarke

Isolation of the 3,4',5-trihydroxystilbene (Resveratrol): The Natural Antioxidant

Ms. Kayden Fletcher

The Analysis of Lactose

Ms. Ju'lea Geche

The Isolation of Crystalline Adenine Nucleotide

Ms. Kylee Hall

The True Colors of Chloroform

Ms. Emily Hickman

Let There Be Luciferin

Ms. Lillith Johnson

Draculin: The Examination of the Anticoagulant Factor in Vampire Bat Saliva

Ms. Samantha Newton

Extraction of Limonene from Citrus Peels

Ms. Erika Quintero

Too Hot to Handle

Ms. Adriana Sanchez-Xalate

The Unexpected and Incredible Discovery of Mauveine and its Synthesis

Ms. Moriah Stark

The Jeanette Cantrell Rudy School of Nursing & Health Professions

Nursing

Emergency Department: Is it Worth the Wait?

Ms. Christina Bankston, Ms. Sarah Roller, Ms. Beth Hullett; and Ms. Chelsea Smith

CPR: Is it Beneficial to the Elderly with CHF

Ms. Sarah Weaver, Mr. Justin Brown, and Ms. Kayle Caudill

Deadly Medication Errors- Can More be Done to Prevent Them?

Mr. Elisha Morrison, Ms. Callie Shockley, and Ms. Kaitlyn Amalfitano

Childhood Obesity: Battling a National Epidemic in a Modernized World

Ms. Alyssa Buckland, Mr. Dakota Grauherr, and Mrs. Gwen Lemley

Don't Stress, Get a Pet!

Ms. Stephanie Olin, Ms. Mckenzie Bryant, and Ms. Carly Craig

Pregnancy and Flu Shots: It's Time to Bump Up Education

Ms. Tatum Shaw, Ms. Brittney Summar, and Ms. Hafsa Ismail

Haitian Women and STIs/STDs: Culturally Competent Education

Ms. Jessica Sebree, Ms. Allilson Holt, Ms. Brittany Winston, and Ms. Stephanie Olin

Benefits of Bedside Reporting

Mr. Blake Holmes, Ms. Natalie Hunt, and Ms. Taylor Walker

The Effect of Early and Continued Dietary Counseling on Patients Newly-Diagnosed with Type-2 Diabetes

Ms. Ashley Hagewood, Ms. Typhanee King, and Mr. Zachary Wood

Impact of Nurse-Patient Ratios on Quality of Care in a Hospital Setting

Ms. Alyssa Keen, Ms. Jordan Wales, and Ms. Destiny Park

Diabetes. To Be or Not To Be?

Ms. Amber White, Mr. Blake Bouza, and Ms. Makana Swaw

School of Humanities, Education, and the Arts

Criminal Justice

Lighting Up the Cover Ups
Ms. Olivia Baker

When Blood Splatters
Ms. Alexandreh Brewington

Facial Reconstruction Solves Forensic Investigation
Mr. Thomas Chenault

Ted Bundy: The Bite
Mr. Caleb Conley

Bias in Forensic Science
Mr. Keigen Daniels

DNA Can Set You Free
Mr. Chase Ford

What Are You Leaving Behind?
Ms. Alexis Frye

Show Me Your Loops, Whorls, and Arches.
Ms. Haylee Holder

Same Look, Same DNA?
Ms. Katlin Hutchins

Show Me the Facts!
Mr. Camryn Jacobs

Solving Cold Cases Using DNA Analysis
Ms. PerrieGrace Jones

These Old Bones: The Secrets They Keep
Ms. Shanna Kohr

Mishandled Evidence in Criminal Investigation Cases
Ms. Lucy Lasater

Rings Around the World
Ms. Jordynne Loy

Chasing the Golden State Killer Through the Family Tree
Ms. Felicia Machado

Decoding DNA: How Geneticists Joined the Fight Against Crime
Mr. Kyle Miller

Couldn't Control His Surroundings
Mr. Hooper Mills
M-Vac Retrieves Rock Solid Evidence
Ms. Katie Overton

Are You A Neat Monster?
Mr. Austin Plumlee

Forensic Science Is That You?
Mr. Terron Smith

Breakdown of Ballistic Evidence
Mr. Nathan Vaughn

Opioids in Forensic Science
Ms. Skyann Wiley

Education

The New Age of Technology in an Elementary Classroom
Ms. Mary Brooke Haley

Psychology

Parental Influences on College Students
Ms. Alexandra Alva

College Students' Happiness Based on Balance in School and Social Life
Ms. Christina Bush

Is Social Media Making Us Angry?
Ms. MahKayla DuPree

Anxiety and Aggression
Ms. Morgan Harmon

Sleep Issues in College Student Athletes in Comparison to Non-Athletes
Ms. Kaitlin Kehrer

The Effects of Internet on Cognitive Abilities
Ms. Autumn Miller

Stress of College Athletes
Ms. Alexis Riggall

Online Conformity
Mr. Kolbe Sanders

Determining the Relationship Between American Patriotism and Prejudice
Ms. Rosio Segoviano

Poverty and Juvenile Delinquency
Ms. Shaquillra Taylor

Traumas and Phobias
Ms. Haley White