**Fall 2021 Symposium of Student Scholars**

**In-Person Posters, Gymnasium, Marietta Campus**

**10:30am – 11:30am**

***Mathematical Modeling of Birth/Death Dynamics Among Obligate Cooperative Breeders***

In person poster presentation – Gymnasium

10:30am – 11:30am

Undergraduate Student(s): Suzan Manasreh and Michaela Crego

Research Mentor(s): Glenn Young

***Development of a SARS-CoV-2 Surveillance Test for Kennesaw State University***

In person poster – Gymnasium

10:30am – 11:30am

Undergraduate Student(s): Eric Brosius

Research Mentor(s): Michael Beach

***How to Establish Growth within the Internship Program***

In person poster – Gymnasium

10:30am – 11:30am

Undergraduate Student(s): Erica Little

Research Mentor(s): Jennifer Wade-Berg

***All About the Pandemic Within the Nonprofit Sector: An Analysis Review for Douglas County Task Force on Family Violence, Inc.***

In person poster – Gymnasium

10:30am – 11:30am

Undergraduate Student(s): Vanessa Macedo

Research Mentor(s): Jennifer Wade-Berg

***Creating a Mass Donation Solicitation Plan for Special Needs Cobb***

In person poster – Gymnasium

10:30am – 11:30am

Undergraduate Student(s): Alexa Waters

Research Mentor(s): Jennifer Wade-Berg

***The Effects of Youth Leadership in an Organization***

In person poster – Gymnasium

10:30am – 11:30am

Undergraduate Student(s): Ashley Francis

Research Mentor(s): Jennifer Wade-Berg

**11:45am – 12:45pm**

***Myxobacteria in Acidic Environments***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Zaid Abuimweis and Gavin Treadaway

Research Mentor(s): Ramya Rajagopalan

***Cell Penetrating Peptide Inhibiting the Main Protease of SARS-CoV-2***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Adam Ashley

Graduate Student(s): James Stewart

Research Mentor(s): Mohammad A. Halim

***Demographic Change in the North Atlanta Metro Area***

In person poster - Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Zachary Lloyd

Research Mentor(s): Uli Ingram

***Gender and Garbology***

In person poster – Gymnasium

11:45pm – 12:45pm

Undergraduate Student(s): Olivia Brooking and Mauri Hawkins

Research Mentor(s): Susan Kirkpatrick Smith

***Repurposing Highly Potent Antiviral Peptide Targeting 3-Chemotrypsin Like Protease (3CLpro) of SARS-CoV-2***

In person poster – Gymnasium

11:45pm – 12:45pm

Undergraduate Student(s): Aisha Mohammed

Graduate Student(s): James Stewart

Research Mentor(s): Mohammad A. Halim

***Impact of the Water Content in the Therapeutic Deep Eutectic Solvents***

In person poster – Gymnasium

11:45pm – 12:45pm

Undergraduate Student(s): Noam Lewit

Gradute Student(s): James Stewart and Oluseyi Olawuyi

Research Mentor(s): Mohammad A. Halim

***Biological Evolution of Voltage-gated Calcium Auxiliary Subunits***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Alexis Rumbaugh

Research Mentor(s): Tsai-Tien Tseng

***Associations with Insulin Resistance and Skinfold Measures in Pregnant and Non-Pregnant Women***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Hannah Sandstrom, Maria Mora, and Camella Neal

Graduate Student(s): Mara Bryan

Research Mentor(s): Katherine Ingram, Juliana Meireles, and Sadaf Dabeer

***Barriers to Medication Adherence to Adult HIV-Positive Minorities***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Jerry Zheng, Diego Zarate, and Bea Flores

Research Mentor(s): Mary Dioise Ramos

***Understanding the Relationship Between Kangaroo Care and Neurodevelopment in Infants with Congenital Heart Disease: A Systematic Review***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Natalie Geralde, Alexis Antoci, Anne Aca, and Kamrin Burdell

Research Mentor(s): Jenna Shackleford

***Early Intervention Outdoor Sensory Program Using Applied Behavioral Analysis for Children With Autism***

In person poster – Gymnasium

11:45am – 12:45pm

Undergraduate Student(s): Josephine Nelson

Research Mentor(s): Jennifer Wade-Berg

**1:00pm – 2:00pm**

***Deaf Inclusion and Accessibility in the Dance Field***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Samantha M. Doyle

Research Mentor(s): Caroline S. Clark

***Distraction as a Tactic for Pain Management During Venipuncture Procedures Among Pediatric Patients***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Alexis Taylor, Savannah Lynch, Dwomo Dwumfour, and Grace Nyaga

Research Mentor(s): Mary Dioise Ramos

***Women Experiencing Postpartum Depression***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Summer Andrews, Ashlynn Collum, Carmen Panter, Kaelyn Smith, and Natalie Slepsky

Research Mentor(s): Mary Dioise Ramos

***Mapping a Suburban Forest Fragment at the KSU Field Station***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Derek Schmidt

Research Mentor(s): Nancy Hoalst Pullen

***Garbage and its Archeological Background***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Ellie Flynn, Forrest Smith, Michael Lawrence

Research Mentor(s): Susan Kirkpatrick Smith

***Atlanta Region Food Access: A Study of Food Access as it Relates to Population Growth***

In person poster - Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Derek Romanek

Research Mentor(s): Uli Ingram

***Live Fast, Die Young: Examining Pace-of-Life Syndrome in European Starlings (Sturnus vulgaris) across an Urbanization Gradient***

In person poster – Gymnasium

1:00pm – 2:00pm

Graduate Student(s): Rachel Kaplan

Research Mentor(s): Sarah Guindre-Parker

***Bird Behavior in the City: Is Flight Initiation Distance Shorter in More Urban Trails?***

In person poster - Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Jamie Riddle

Research Mentor(s): Sarah Guindre-Parker

***Analysis of Unplanned Perioperative Hypothermia Effects on Post Operative Delirium through the Use of Biomarkers***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Justin Machado, Benjamin Ryle, Nicolle Sorto-Reyna, and Taniyah Wright

Research Mentor(s): Doreen Wagner, Sharon Pearcey, and Susan M.E. Smith

***Women, Connection, and Recovery: A Case Study***

In person poster – Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Sarah Mahler

Research Mentor(s): Jennifer Wade-Berg

***EHR Data Management: Hyperledger Fabric-Based Health Data Storing and Sharing***

In person poster – Gymnasium

1:00pm – 2:00pm

Graduate Student(s): Md Jobair Hossain Faruk

Research Mentor(s): Hossain Shahriar and Maria Valero

***Effect of Exercise in Preventing Gestational Diabetes Mellitus in Racially Diverse Overweight Pregnant Women***

In person poster ­– Gymnasium

1:00pm – 2:00pm

Undergraduate Student(s): Barrington Francis, Ami Eho, and Bre McDonald

Research Mentor(s): Katherine Ingram, Sadaf Dabeer, and Juliana Filguerias Meireles

**2:15pm – 3:15pm**

***Analysis of Kavalactones in Various Consumptive Kava Samples using GC-MS***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Stephanie O'Kon

Research Mentor(s): Wei Zhou

***Snake Venom Peptides and Toxin targeting the Main Protease of SARS-CoV-2***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Breauna Strawder

Graduate Student(s): James Stewart

Research Mentor(s): Mohammad A. Halim

***Comparing Allelochemicals of English Ivy and Native Georgia Plants***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Rebecca Senft

Research Mentor(s): Matthew P. Weand

***Analysis of Pseudomonas Aeruginosa Predation by Myxococcus Xanthus Using Confocal Microscopy***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Jon Levesque

Graduate Student(s): Sarah Beauvais

Research Mentor(s): Ramya Rajagopalan

***From Molecules to Ecosystems: Variation in Metabolic, Chemical, and Physical Characteristics of the Longleaf Pine Soil Ecosystem***

In person poster ­– Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Gavin Treadaway, Zaid Abuimweis, Isabella Vahle, and Ian Thomasson

Research Mentor(s): Ramya Rajagopalan, Nicholas Green, Heather Sutton, and Paula Jackson

***Design of Emergency Response UAS for University Campus Safety***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Jessica Burroughs

Research Mentor(s): Adeel Khalid

***Agreement Between 2 Bioimpedance Devices for Estimating Body Composition in Pregnant Women***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Sebastian Russell

Research Mentor(s): Katherine Ingram, Sadaf Dabeer, and Juliana Meireles

***Prolonged Hospitalization Effects on Psychosocial Development in Chronic Illness Pediatric Patients***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Zoe Quarles, Sophie Kinrade, Courtney Cumberland, and Megan Pringle

Research Mentor(s): Mary Dioise Ramos

***Parental Mental Health After Child Hospitalization***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Catherine “Samantha” Sowers, Cierra Pfaff, Micaela Ego-Aguirre, and Tyler Robinson

Research Mentor(s): Mary Dioise Ramos

***Reducing Rates of Burnout in Newly Licensed Nurses Through Resiliency Programs***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Katherine Beckner, Connor Echols, Mark Pennington, and Katelyn McLaughlin

Research Mentor(s): Mary Dioise Ramos

***The Effect of Covid Visitation Policies at Hospitals On Patient Satisfaction***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Justin Kabo, Madeleine Carden, Denise Thomas, and Lyla Garrison

Research Mentor(s): Mary Dioise Ramos

***Marketing and Outreach Strategies for Nonprofits and the Phoenix-Georgia***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Charlie Spradley

Research Mentor(s): Jennifer Wade-Berg

***Components of an Effective Grant Proposal***

In person poster – Gymnasium

2:15pm – 3:15pm

Undergraduate Student(s): Leonine Greaves

Research Mentor(s): Jennifer Wade-Berg