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EAST TENNESSEE STATE  
UNIVERSITY

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# 2019 Appalachian Student Research Forum

April 12, 2019

Millennium Center • Johnson City, TN

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# About the ASRF

The Appalachian Student Research Forum is an annual event hosted by East Tennessee State University. The Forum brings together undergraduate, graduate, medical and pharmacy students, post-doctoral fellows and medical residents to present their original research in a formal, juried setting.

Beginning in 1985 as a program within the Medical School with only 19 participants, the 2019 Forum will host over 230 participants from colleges and universities across the Southern Appalachia region presenting in fields as diverse as nursing, medicine, pharmacy and public health; chemistry, biology, economics and other natural, physical and social sciences; computing and engineering; education, and the humanities.

A cadre of distinguished researchers, faculty and physicians evaluate and award top prizes for poster presentations for which all levels of participant are eligible, and oral presentations for which all levels of participant except undergraduates are eligible.

The Forum culminates with an awards presentation and a keynote address given by a nationally-recognized researcher. Past presenters include Dr. Joycelyn Elders, former U.S. Surgeon General; Dr. Michael Tucker, a leading researcher in *in vitro* fertilization; former NASA astronaut Dr. Rhea Seddon; and Dr. Ronald C. Desrosiers, who gained international recognition when he discovered that it is possible to vaccinate monkeys against the AIDS virus.

The Forum is organized by the ETSU Office of Research and Sponsored Programs Administration with input from the ASRF Faculty Advisory Committee. To learn about past ASRF events, please visit:

[www.etsu.edu/studentresearch/aboutasrf.php](http://www.etsu.edu/studentresearch/aboutasrf.php).

# ASRF-TVA Partnership for a Sustainable Forum



The Appalachian Student Research Forum is excited to partner with TVA in promoting an environmentally sustainable Forum and fostering environmental education.

The Tennessee Valley Authority (TVA) Act, signed by President Roosevelt in 1933, charged TVA with ensuring the economic, environmental, social and physical wellbeing of the people in the Tennessee Valley service area. TVA's ongoing stewardship efforts are focused on protecting and improving the Tennessee River watershed region.

Education is one of TVA's focused areas of interest and the Natural Resources Community Outreach Support Program has supported the ASRF by funding our environmental stewardship and education initiatives. These initiatives include a zero-waste breakfast, a low-waste catered lunch, and two student awards for excellence in a natural resources, environmental science, or sustainability research area. Informative signs will be posted at the Forum to describe and quantify the steps taken to minimize waste and estimate the environmental impact of the low-waste and zero-waste actions. In addition, signage will direct attendees to recycle or compost as much of their food waste as possible, compostable service ware will be used to reduce the amount of packaging that goes to the landfill, and RSVPs were taken to get an accurate lunch count and reduce food waste.

Thank you TVA! And thank you to all participants and attendees for helping us keep our stewardship promise.

# Schedule of Events

TIME	EVENT	LOCATION
<b>8:00am-12:45pm &amp; 3:00pm-4:00pm</b> On the Hour On the Half Hour	<b>Research Computing Demos</b> RedCAP Data Management Amazon Educate/Web Services	<b>Bays Mtn. Room 125</b>
<b>9:00am-2:30pm</b>  detailed schedule available at: <a href="https://dc.etsu.edu/asrf/2019/schedule/">https://dc.etsu.edu/asrf/2019/schedule/</a>	<b>Poster Presentations</b>	<b>2<sup>nd</sup> Floor</b>  Ballroom, Clinch Mtn. Rm., 215 Mt. Mitchell Rm. 220, White Top Mtn. Rm. 225
<b>9:00am-3:30pm</b>  detailed schedule available at: <a href="https://dc.etsu.edu/asrf/2019/schedule/">https://dc.etsu.edu/asrf/2019/schedule/</a>	<b>Oral Presentations</b>	<b>1<sup>st</sup> Floor</b>  Auditorium Rms. 137A & 137B, Bays Mtn. Rm. 125, Beech Mtn. Rm. 120, Ripshin Mtn. Rm. 130
<b>12:00pm-1:00pm</b>	<b>Lunch (ticket required)</b>	<b>1<sup>st</sup> Floor Atrium</b>
<b>3:00pm-4:00pm</b>	<b>Appalachian Regional Commission</b> Presentation by Mr. Kostas Skordas	<b>Auditorium Room 137B</b>
<b>4:30pm-6:00pm</b>	<b>Keynote Address &amp; Awards Ceremony</b> by Dr. Shilpa Buch	<b>Ballroom</b>

# Keynote Presentation

Dr. Shilpa Buch



Professor & Vice Chair for Research and Director, NE Center for Substance Abuse Research  
Community Pride of Nebraska Professorship of Neuroscience  
Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center

## Keynote Address Abstract: “HIV and Drug Abuse Go Hand in HAND”

Currently, over 40 million people are living with HIV worldwide. Although combination antiretroviral therapy (cART) has improved the health of millions of those living with HIV, the penetration into the CNS of many such therapies is limited, thereby resulting in residual neurocognitive impairment commonly referred to as NeuroHIV. Additionally, while cART can successfully suppress peripheral viremia, cytotoxicity associated with the presence of viral proteins such as transactivator of transcription (Tat) & the envelope protein gp120 continue to lurk in the lymph nodes & the brain, remains a significant concern. These secretory viral proteins can, in turn, activate glial cells resulting in secretion of a plethora of proinflammatory mediators, thereby contributing to neuroinflammation. Adding further complexity is abuse of drugs such as opiates and cocaine by those infected with HIV, thereby leading, not only to poor cART adherence but also to exacerbation of HIV-associated neuropathology. Our primary research focus is to understand the molecular mechanism(s) by which drugs of abuse, such as cocaine and morphine, co-operate with HIV-1/HIV proteins to enhance the progression of HIV-associated neurological disorders (HAND). Specifically, using multipronged approach comprising of in vitro model systems, complementary rodent models, the higher more relevant macaque model of SIV pathogenesis, and archival human tissue, we dissect the signaling pathways crucial for CNS pathogenesis, that is triggered by the host-virus interplay. More recently, our research is centered on exploring the molecular pathways by which microRNAs, small noncoding RNAs, that shuttle in extracellular vesicle cargos, regulate gene expression and mediate cellular cross-talk. Also, our study demonstrates that HIV proteins &/or drugs of abuse such as cocaine and morphine, activate glial cells (microglia and astrocytes) and pericytes via endoplasmic reticulum stress and dysregulated autophagy leading to ensuing neuroinflammation. Further, our findings also underpin the role of inflammasome signaling in glial activation in the context of both HIV proteins and drug abuse. Work from our group has also shed light on novel therapeutic strategies, such as delivery of platelet-derived growth factor in mitigating neuroinflammation and associated synaptodendritic injury observed in HAND.

# Special Guest Speaker

## Mr. Kostas Skordas

*Director, Research and Planning  
Appalachian Regional Commission  
Washington, DC*

Kostas Skordas is the Director of the Division of Planning and Research at the Appalachian Regional Commission (ARC). The ARC is a federal-state partnership whose mission is to build capacity and boost economic growth in Appalachia, with funding in Fiscal Year 2018 of \$155 million. Kostas is responsible for the leadership, direction, and management of the Commission's strategic planning, research and evaluation, and transportation-related investments. He supervises a variety of Commission-wide activities including development of the five-year strategic investment plan to guide ARC's annual appropriations, implementation of a \$1 million+ annual work plan to research critical issues impacting Appalachia and evaluate the effectiveness of ARC investments, and oversight of the Appalachian Development Highway System, a network of corridors helping connect Appalachia with global markets. Prior to that position Kostas was a regional planner with the ARC, a position he held since 2002. He holds Masters Degrees in Urban and Regional Planning from Virginia Commonwealth University and in Public Administration from George Mason University. His undergraduate degree is from the College of William and Mary.

# Thank You ASRF Partners!

## Platinum

Tennessee Valley Authority

## Silver

ETSU Center for Community Outreach & Applied Research

ETSU Research Foundation

ETSU Office of the Vice Provost of Research

## Bronze

Sarstedt Inc.

The Following ETSU Departments/Colleges:

- Appalachian Studies
- Biomedical Sciences
- Center for Nursing Research
- Family Medicine
- Internal Medicine
- Dean of Pharmacy
- VP Health Affairs
- Biological Sciences
- Dean of Business & Technology
- Dean of Education
- Graduate Studies
- Pediatrics
- Dean of Public Health



# Thank You ASRF Contributors!

The Following ETSU Departments/Colleges:

Audiology & Speech Language Pathology	Literature and Language
Biostatistics & Epidemiology	Mathematics and Statistics
College of Arts & Sciences	McNair Program
Community & Behavioral Health	Music
Computing	OB/GYN
Criminal Justice	Pharmaceutical Sciences
Cross-Disciplinary Studies	Pharmacy Practice
Engineering, Engineering Technology and Surveying	Philosophy & Humanities
Environmental Health	Physics and Astronomy
Geosciences	Sociology & Anthropology
Health Sciences	Surgery
Honors College	

## Special Thanks to:

ETSU Department of Sustainability EcoNuts

McNair Program Students: Malikai Bass, Daisy Hernandez, Nikole Kerns, Pearl McCuiston,  
Garrett Morelock, Rachael Sneed, Candace Seymore

Student Employees: Shayna Cole, Christopher Phalen, Delisa Sanders, Sarah Eileen Simpson

Office of Research & Sponsored Programs' Staff: Ms. Angela Clark, Ms. Cynthia Hardin, Mr. Morgan Taylor

# ASRF Judges

We gratefully acknowledge the following faculty and staff for giving their time and expertise to serve as ASRF Judges.

Arsham Alamian  
Courtney Andrews  
Saba Aziz  
Katie Baker  
Kate Beatty  
Eric Beaumont  
Julia Bernard  
Greg Bishop  
Patrick Bradshaw  
Stacy Brown  
Russell Brown  
David Bumgarner  
Mike Burford  
Evan Butts  
Kanishka Chakraborty  
Donna Cherry  
Alyson Chroust  
Andrea Clements  
Ivy Click  
Charles Collins

Suman Dalal  
Heather Dye  
Myra Elder  
Eileen Ernenwein  
Ruth Facun-Granadozo  
Felipe Fiuza  
Rebecca Fletcher  
Allan Forsman  
Cerrone Foster  
Sean Fox  
Chad Frasier  
Stephen Geraci  
Jennifer Hall  
Kent Hjerpe  
Jennifer Hunt  
Michelle Hurley  
Cuihong Jia  
Yong Jiang  
Leigh Johnson  
Aruna Kilaru

Ying Li  
Mary Ann Littleton  
Greta Marek  
Stephanie Mathis  
Catherine McCusker  
Tamra McKenzie  
Hua Mei  
Darrell Moore  
Arpita Nandi  
Shunbin Ning  
Lisa Ousley  
Patsy Pampkin  
Jonathan Peterson  
Brooks Pond  
Kerry Proctor-Williams  
Lee Ridner  
Diego Rodriguez Gil  
Alex Sargsyan  
Phillip Scheuerman  
Dane Scott

Eric Sellers  
Darshan Shah  
Abbas Shilabin  
Sanjay Singh  
Mike Smith  
Amanda Stoltz  
Doug Thewke  
William Tollefson  
Carol Trivette  
Mohammad Uddin  
Valentin Yakubenko  
Kilaru Aruna  
Michelle Chandley  
William R. Duncan  
Emily Flores  
Gary Henson  
Qian Xie  
Susan Epps

# ASRF Advisory Committee

**Dr. Aruna Kilaru, Chair**

**Associate Professor of Biological Sciences**

**Dr. Candace Bright, Vice Chair**

**Assistant Professor of Sociology**

John Bossaer  
Asst. Professor, Pharmacy Practice

Richard Ignace  
Professor, Physics and Astronomy

Brooks Pond  
Assoc. Professor, Pharmaceutical  
Sciences

William R. Duncan  
Vice Provost for Research

Cuihong Jia  
Asst. Professor, Biomedical Sciences

Victoria Pope  
Asst. Professor, Nursing Graduate  
Programs

Wendy Eckert  
Director, Research & Sponsored  
Programs

Ying Li  
Asst. Professor, Environmental Health

Ashley Sergiadis  
Asst. Professor, Library Administration

Ruth Facun-Granadozo  
Asst. Professor, Early Childhood  
Education

Ingrid Luffman  
Asst. Professor, Geosciences

Joseph Shrestha  
Asst. Professor, Engineering,  
Engineering Technology and Surveying

Retha Gentry  
Asst. Professor, Nursing Graduate  
Programs

Abigail Mann  
Asst. Professor, Family Medicine

Sharon McGee  
Dean, School of Graduate Studies

Christopher Wallace  
Asst. Professor, Computing

## **Advisory Committee Administrative Support:**

Camille Cassella and Lindsay Keitzer, Research & Sponsored Programs

# Appendix A: Oral Presentation Schedule

Location, Subject Area, Presenter Class & Time :: Presenter Name, Link to Abstract, Presentation Title

## AUDITORIUM ROOM 137A

### Healthcare

#### Graduate Student-Doctoral

- 9:00 AM - 9:15 AM **Bailey, Sam**  
<https://dc.etsu.edu/asrf/2019/schedule/230>  
Patient Choice to Opt-In or Opt-Out of Telephonic Health-Related Social Need Navigation Program
- 9:20 AM - 9:35 AM **Nwabueze, Christian**  
<https://dc.etsu.edu/asrf/2019/schedule/99>  
Gender Differences in Early Alcohol, Drug and Tobacco Use with Anxiety in US Adults
- 9:40 AM - 9:55 AM **Ozodiegwu, Ifeoma**  
<https://dc.etsu.edu/asrf/2019/schedule/232>  
A Qualitative Research Synthesis of Contextual Factors Contributing To Female Overweight and Obesity over the Life Course in Sub-Saharan Africa
- 10:00 AM - 10:15 AM **Peluso, Anthony**  
<https://dc.etsu.edu/asrf/2019/schedule/184>  
Women In Need of Publicly Funded Contraceptive Services in South Carolina: A County-Level Investigation

#### Graduate Student-Master's

- 10:20 AM - 10:35 AM **Dolson, Robyn**  
<https://dc.etsu.edu/asrf/2019/schedule/124>  
Pocket Ace: Neglect of Child Sexual Abuse Survivors in the ACE Study Questionnaire
- 10:40 AM - 10:55 AM **Fabrize, Lauren**  
<https://dc.etsu.edu/asrf/2019/schedule/100>  
Neonatal Intensive Care Unit Speech-Language Pathologists' Perceptions of Infants with Neonatal Abstinence Syndrome

### ***Auditorium Room 137A continued***

- 11:00 AM - 11:15 AM **Osedeme, Fenose**  
<https://dc.etsu.edu/asrf/2019/schedule/18>  
Tobacco Policy Findings from a Community-Based Capacity Assessment Used to Develop a Population Health Improvement Plan for Tobacco Control in Appalachian Tennessee.
- 11:20 AM - 11:35 AM **Spaulding, Aleigha**  
<https://dc.etsu.edu/asrf/2019/schedule/35>  
Analysis of Birth Rate and Predictors Using Linear Regression Model and Propensity Score Matching Method
- 11:40 AM - 11: 55 AM **Barbee, Jessica**  
<https://dc.etsu.edu/asrf/2019/schedule/3>  
National and Tennessee Trends in BMI Percentile, Obesity, and Overweight Rates Among Youth Using YRBSS Data 1999-2017

### **Chemical, Physical & Engineering Sciences**

#### **Graduate Student-Master's**

- 1:00 PM - 1:15 PM **Ogbu, Chidiebere**  
<https://dc.etsu.edu/asrf/2019/schedule/93>  
Peroxide Sensing Using Nitrogen-Doped Screen-Printed Carbon Electrodes
- 1:20 PM - 1:35 PM **Ametsetor, Ebenezer**  
<https://dc.etsu.edu/asrf/2019/schedule/170>  
"Hydroxytyrosol Derivatives: Synthesis and Biomedical Assessment"
- 1:40 PM - 1:55 PM **Mawudoku, Daniel**  
<https://dc.etsu.edu/asrf/2019/schedule/106>  
Immobilization of Electrocatalytically Active Gold Nanoparticles on Nitrogen-Doped Carbon Fiber Electrodes
- 2:00 PM - 2:15 PM **Omadoko, Ovuokenye**  
<https://dc.etsu.edu/asrf/2019/schedule/171>  
Simple Photochemical Reduction of Carbon Dioxide to Formate
- 2:20 PM - 2:35 PM **Nanto, Darack**  
<https://dc.etsu.edu/asrf/2019/schedule/219>  
The Eco-Smart Can

**Auditorium Room 137A continued**

2:40 PM - 2:55 PM **Fatunwase, Akintayo**  
<https://dc.etsu.edu/asrf/2019/schedule/1>  
Simple Pretreatment of Arundo Donax and Enzymatic Conversion of Cellulosic Materials to Glucose

**AUDITORIUM ROOM 137B**

Social Sciences

Graduate Student-Doctoral

9:00 AM - 9:15 AM **Altschuler, Rebecca**  
<https://dc.etsu.edu/asrf/2019/schedule/208>  
Anxiety Mediates the Relationship between Sexual Trauma Stigma and Somatic Health Complaints

9:20 AM - 9:35 AM **Carpenter, Rachel**  
<https://dc.etsu.edu/asrf/2019/schedule/158>  
Domestic Violence Survivor-Offender Relationship is Related to Type of Abuse Sustained

9:40 AM - 9:55 AM **Dreves, Parker**  
<https://dc.etsu.edu/asrf/2019/schedule/229>  
An Investigation into the Structure of Self-Control

10:00 AM - 10:15 AM **Eisenbrandt, Lydia**  
<https://dc.etsu.edu/asrf/2019/schedule/98>  
Are Risky Behaviors and Substance Use Higher Among Adolescence with Externalizing Disorders?

10:20 AM - 10:35 AM **Gretak, Alyssa**  
<https://dc.etsu.edu/asrf/2019/schedule/178>  
Effective Practices to Facilitate Rural Reentry: A Policy Analysis

10:40 AM - 10:55 AM **Najm, Julia**  
<https://dc.etsu.edu/asrf/2019/schedule/169>  
ACEs, Emotional Socialization, and Substance Use: A Moderator Model

## ***Auditorium Room 137B continued***

### **Graduate Student-Master's**

- 1:00 PM - 1:15 PM **Charles, Amelia**  
<https://dc.etsu.edu/asrf/2019/schedule/31>  
Building Allies Who Are Informed and Engaged
- 1:20 PM - 1:35 PM **Miller, Julian**  
<https://dc.etsu.edu/asrf/2019/schedule/174>  
Tragic Optimism and Universal Values: Reframing the Narrative of Poverty in Central West Virginia
- 1:40 PM - 1:55 PM **Paintsil, Isaac**  
<https://dc.etsu.edu/asrf/2019/schedule/197>  
Religiosity, Parental Support, and Formal Volunteering Among Teenagers
- 2:00 PM - 2:15 PM **Pugh, Kelley**  
<https://dc.etsu.edu/asrf/2019/schedule/151>  
Religious Attendance, Surrender to God, and Suicide Risk: Mediating Pathways of Feeling Forgiven by God and Psychopathology
- 2:20 PM - 2:35 PM **Ventura, Liane**  
<https://dc.etsu.edu/asrf/2019/schedule/155>  
What About Food? Food Insecurity Screening in the Clinical Setting

## **BAYS MTN. ROOM 125**

### **Natural Resources & Environmental Sciences**

### **Graduate Student-Master's**

- 1:00 PM - 1:15 PM **Bledsoe, April**  
<https://dc.etsu.edu/asrf/2019/schedule/70>  
Ecological Niche Modeling and Sustainable Agroforestry: Climate Change Mitigation for Guatemalan Coffee
- 1:20 PM - 1:35 PM **Bogner, Emily**  
<https://dc.etsu.edu/asrf/2019/schedule/39>  
Differentiating Black Bears (*Ursus americanus*) and Brown Bears (*Ursus arctos*) Geographically Using Linear Measurements of Teeth and Identification of Ursids from Oregon Caves National Monument

***Bays Mtn. Room 125 continued***

1:40 PM - 1:55 PM

**Mosher, Danika**

<https://dc.etsu.edu/asrf/2019/schedule/73>

Interpreting Paleoclimate and Species Distributions of Red Spruce and Fraser Firs in the Southern Appalachians to Predict Impacts of Climate Change on Forest Habitats

2:00 PM - 2:15 PM

**Poczobut, Elizabeth**

<https://dc.etsu.edu/asrf/2019/schedule/9>

Where the Feral Things Are: An Analysis of how the USDA and Department of the Interior's Agencies Manage Feral Hogs, Horses, and Burros

2:20 PM - 2:35 PM

**Schap, Julia**

<https://dc.etsu.edu/asrf/2019/schedule/57>

Ecometric Estimation of Present and Past Climate of North America Using Crown Heights of Rodents and Lagomorphs: With Application to the Middle Miocene Climatic Optimum

**BEECH MTN. ROOM 120**

**Medicine & Diseases**

**Graduate Student-Doctoral**

9:00 AM - 9:15 AM

**Alkhateeb, Tuqa**

<https://dc.etsu.edu/asrf/2019/schedule/217>

S100A9 Sustains Myeloid-Derived Suppressor Expansion and Immunosuppression During Chronic Murine Sepsis

9:20 AM - 9:35 AM

**Chapman, Rudy**

<https://dc.etsu.edu/asrf/2019/schedule/103>

Engulfment of Axonal Debris After Methimazole-Induced Injury

9:40 AM - 9:55 AM

**Berry, Amy**

<https://dc.etsu.edu/asrf/2019/schedule/109>

Estrogen Receptors Affect Chlamydia muridarum Infection in Mice

10:00 AM - 10:15 AM

**Gill, W. Drew**

<https://dc.etsu.edu/asrf/2019/schedule/236>

The Effects of an Adenosine A(2A) Agonist on the Rewarding Associative Properties of Nicotine and Neural Plasticity in a Rodent Model of Schizophrenia



***Beech Mtn. Room 120 continued***

10:20 AM - 10:35 AM **Malone, Hannah**  
<https://dc.etsu.edu/asrf/2019/schedule/224>  
Therapeutic Potential of FAK Inhibitor After Stroke in Neuroprotection and Neurogenesis

**Pharmacy Student**

10:40 AM - 10:55 AM **McWethy, David**  
<https://dc.etsu.edu/asrf/2019/schedule/16>  
Dopamine Cell Loss within the Nigrostriatal Pathway Due to Oxidative Stress from Chronic Methylphenidate

**Medical Student**

11:00 AM - 11:15 AM **Turner, Emmitt**  
<https://dc.etsu.edu/asrf/2019/schedule/46>  
Perinatal Outcomes of Marijuana use on Opioid Exposed Pregnancy

11:20 AM - 11:35 AM **Maeng, Jae**  
<https://dc.etsu.edu/asrf/2019/schedule/191>  
Cardiovirology Clinic for Primary Prevention in HIV Patients: a Quality Improvement Assessment

**Chemical, Physical & Engineering Sciences**

**Graduate Student-Master's**

1:00 PM - 1:15 PM **Adesina, Olumide**  
<https://dc.etsu.edu/asrf/2019/schedule/143>  
Purification of Cyclohexene for Cyclopropanation Reactions

1:20 PM - 1:35 PM **Olukanni, Ayobami**  
<https://dc.etsu.edu/asrf/2019/schedule/135>  
Purification of Ethyl Diazoacetate by Vacuum Distillation for use in Cyclopropanation Reactions

1:40 PM - 1:55 PM **Dada, Samson**  
<https://dc.etsu.edu/asrf/2019/schedule/19>  
Theranostic Nanoparticles for Simultaneous Detection and Treatment of Cancer

**Beech Mtn. Room 120 continued**

- 2:00 PM - 2:15 PM **Kalu, Chimdi**  
<https://dc.etsu.edu/asrf/2019/schedule/159>  
Synthesis and Evaluation of 1,2,4-Oxadiazolidinones: The Search for Potential non- $\beta$ -lactam  $\beta$ -lactamase Inhibitors.
- 2:20 PM - 2:35 PM **Kuvayskaya, Anastasia**  
<https://dc.etsu.edu/asrf/2019/schedule/200>  
Synthesis of Long-chain Alkylbenzenes on Superacidic Catalysts Containing Embedded Phosphotungstic Acid
- 2:40 PM - 2:55 PM **Mingle, David**  
<https://dc.etsu.edu/asrf/2019/schedule/212>  
Synthesis, Characterization and Biological Evaluation of Novel (S, E)-11-[2-(arylmethylene)hydrazono] Pyrrolo [2,1-c] [1,4] Benzodiazepine Derivatives.

**RIPSHIN MTN. ROOM 130**

Medicine & Diseases

Graduate Student-Master's

- 9:00 AM - 9:15 AM **Famojuro, Oluwaseun**  
<https://dc.etsu.edu/asrf/2019/schedule/81>  
Patient Outcome from Nontraditional Motorized Vehicle Accidents
- 9:20 AM - 9:35 AM **Shelton, Heath**  
<https://dc.etsu.edu/asrf/2019/schedule/160>  
The Effect of Two Novel Anti-Inflammatory Drugs on Sensorimotor Gating and Microglial Activation in the Poly I:C Rodent Model of Schizophrenia
- 9:40 AM - 9:55 AM **Fokuoh, Evelyn**  
<https://dc.etsu.edu/asrf/2019/schedule/211>  
A Linear Mixed Model Analysis of the APOE4 Gene with the Logical Memory Test Total Score in Alzheimer's
- 10:00 AM - 10:15 AM **Oke, Adekunle**  
<https://dc.etsu.edu/asrf/2019/schedule/62>  
Demographic Data of Patients seen in a Medical Genetics Clinic for Autism Spectrum Disorders (ASD) as Part of an Ongoing Study on "Genetic Variations in ASD".

***Ripshin Mtn. Room 130 continued***

- 10:20 AM - 10:35 AM **Uyamasi, Kido**  
<https://dc.etsu.edu/asrf/2019/schedule/28>  
Family Size and Risk of Juvenile Idiopathic Arthritis: A Cross-Sectional Study
- 10:40 AM - 10:55 AM **Odebunmi, Olufeyisayo**  
<https://dc.etsu.edu/asrf/2019/schedule/22>  
Identifying Multiple Risk Factors of Hypertension for Reducing the Prevalence of Peripheral Arterial Disease in Rural Central Appalachia
- 11:00 AM - 11:15 AM **Onatolu, Busayo**  
<https://dc.etsu.edu/asrf/2019/schedule/23>  
Association of Age, Gender and Race in Chronic Kidney Disease Patients with and without Dialysis
- 11:20 AM - 11:35 AM **Mokikan, Moboni**  
<https://dc.etsu.edu/asrf/2019/schedule/60>  
The Influence of Diabetes on Peripheral Arterial Disease Comorbidities in the Central Appalachian Region Between 2008 and 2018.
- 11:40 AM - 11: 55 AM **Fasanmi, Oluwafisayo**  
<https://dc.etsu.edu/asrf/2019/schedule/83>  
The Unique Interplay of Peripartum Cardiomyopathy and Preeclampsia in an Appalachian Obstetric Patient.

**Biological Sciences**

**Graduate Student-Doctoral**

- 1:00 PM - 1:15 PM **Behera, Jyoti Ranjan - Non-Competitive**  
<https://dc.etsu.edu/asrf/2019/schedule/10>  
Comparative In Silico Analysis of WRINKLED 1 Paralogs in Angiosperms
- 1:20 PM - 1:35 PM **Haq, Imdadul - Non-Competitive**  
<https://dc.etsu.edu/asrf/2019/schedule/6>  
Fatty Acid Amide Hydrolase Mediated Endocannabinoid Signaling in an Early Land Plant, Physcomitrella patens

**Ripshin Mtn. Room 130 continued**

**Graduate Student-Master's**

- 1:40 PM - 1:55 PM **Barker, Daniel**  
<https://dc.etsu.edu/asrf/2019/schedule/227>  
Congruence and Within-season Variation in Floral Visitation and Pollen Transport Networks in Southern Appalachia Plant-pollinator Communities
- 2:00 PM - 2:15 PM **Hasan, Rajib**  
<https://dc.etsu.edu/asrf/2019/schedule/7>  
Does Thermo-tolerance in Daphnia Depend on the Mitochondrial Function?
- 2:20 PM - 2:35 PM **Osborne, Caudill**  
<https://dc.etsu.edu/asrf/2019/schedule/176>  
A Comparison of the HGM Approach to the RBP Method of Evaluating Reconstructed Streams on Surface Coal Mines
- 2:40 PM - 2:55 PM **Stanley, Amber**  
<https://dc.etsu.edu/asrf/2019/schedule/215>  
The Effects of Urbanization on Avian Seed Dispersal Success of Eastern Poison Ivy (Anacardiaceae)

# Appendix B: Poster Presentation Schedule

Location :: Subject Area, Presenter Class and Name, Link to Abstract and Presentation Title

## BALLROOM ROOM 237

### Arts & Humanities

#### Undergraduate Students

Bass, Malikai

<https://dc.etsu.edu/asrf/2019/schedule/203>

*Boys Like Me: Neurodivergence in the Young Adult Novel*

Sneed, Rachael

<https://dc.etsu.edu/asrf/2019/schedule/29>

*Strangers in a Strange Land: A Study of the Religious and Cultural Identity of the Kindertransport Children*

### Biological Sciences

#### Graduate Students - Master's

Crain, Shae

<https://dc.etsu.edu/asrf/2019/schedule/5>

*Average Free-Running Period in Spider (Frontinella communis) Peaks and Desynchronizes Throughout its Active Season*

Gause, Austin

<https://dc.etsu.edu/asrf/2019/schedule/199>

*Geometric Morphometric Analysis of Intervertebral Variation in Colubrid Snakes*

Inabinett, Matthew

<https://dc.etsu.edu/asrf/2019/schedule/142>

*Chronological and Paleobiological Controls on the Expression of Mastodon (Proboscidea, Mammutidae) Mandibular Tusks in North America*

Jessee, Lance

<https://dc.etsu.edu/asrf/2019/schedule/95>

*Intervertebral Variation of North American Pit Vipers (Squamata, Viperidae) Using Geometric Morphometrics*

## BALLROOM ROOM 237

Peery, Ronald

<https://dc.etsu.edu/asrf/2019/schedule/202>

*Musteline (Mustelidae) fossil remains from the Early Pliocene Gray Fossil Site of Tennessee: the first pre-Pleistocene record of weasels in the Eastern United States*

Ragsdale, Raven

<https://dc.etsu.edu/asrf/2019/schedule/140>

*Circadian Resonance And Entrainment In Three Spider Species (Frontinella Communis, Metazygia Wittfeldae, And Cyclosa Turbinata)*

Sellick, Katelyn

<https://dc.etsu.edu/asrf/2019/schedule/113>

*A Possible Lux R Solo Type Regulator Of An Antibiotic-Like Compound From The Soil Bacterium Rhodococcus*

Steele, Rebecca

<https://dc.etsu.edu/asrf/2019/schedule/198>

*Chronoecology of the Cave Dwelling Orb-Weaver Spider, Meta ovalis (Araneae: Tetragnathidae)*

### Graduate Students-Doctoral

Birchfield, Aaron

<https://dc.etsu.edu/asrf/2019/schedule/175>

*Crystallization of a Flavonol-Specific 3-O Glucosyltransferase and Site-Directed Mutants from Grapefruit*

Miller, Madeleine

<https://dc.etsu.edu/asrf/2019/schedule/173>

*Lights, Clock, Action! Circadian Rhythms of Locomotor Activity in Larinioides cornutus Indicate Extreme Flexibility in Photo-entrainment*

Wingard, Mary

<https://dc.etsu.edu/asrf/2019/schedule/54>

*Ataxia-Telangiectasia Mutated Kinase Deficiency Alters the Autophagic Response During Chronic Myocardial Infarction*

### Undergraduate Students

Abens, Ryan

<https://dc.etsu.edu/asrf/2019/schedule/2>

*Gene Expression of Cytokines and Oxidative Stress Markers in CTRP3 Transgenic Mice with Chronic Ethanol Exposure*

**BALLROOM ROOM 237**

Bushell, Matthew

<https://dc.etsu.edu/asrf/2019/schedule/189>

*Reburying a Mastodon: A Digitization Workflow for Vertebrate Paleontological Spatial Data*

Cavin, Kaylyn

<https://dc.etsu.edu/asrf/2019/schedule/115>

*The Effects of Simulated Space Flight on Ovarian Tissue*

Elgazzar, Ahmed

<https://dc.etsu.edu/asrf/2019/schedule/92>

*The Effects of Simulated Spaceflight Conditions on the Myometrium of the Mouse Uterus*

Foster, Dylan

<https://dc.etsu.edu/asrf/2019/schedule/128>

*Developing a C. elegans Co-infection Model for Assessing Bacterial-Fungal Interactions*

Garmany, Mattea

<https://dc.etsu.edu/asrf/2019/schedule/149>

*Effects of Non-photic Zeitgebers on the Circadian Clock in the Common House Spider, Parasteatoda tepidariorum*

Goebel, Carleigh

<https://dc.etsu.edu/asrf/2019/schedule/78>

*The Role of CTRP3 in Preventing Testicular Lesions in an Alcoholic Mouse Model*

Goodlaxson, Jacob

<https://dc.etsu.edu/asrf/2019/schedule/40>

*Aging And Kinase Kinetics Of Y77E11.A And Y17G7B.10 In C. Elegans*

Gunnin, R.

<https://dc.etsu.edu/asrf/2019/schedule/65>

*A New Genus Of Desmognathan Salamander (Plethodontidae) From The Early Pliocene Gray Fossil Site Of Northeast Tennessee*

James, Caytlin

<https://dc.etsu.edu/asrf/2019/schedule/104>

*Lack of Osteopontin Decreases Systolic and Diastolic Functional Parameters of the Heart Following Myocardial Ischemia/Reperfusion Injury*

## BALLROOM ROOM 237

Kosky, Madison

<https://dc.etsu.edu/asrf/2019/schedule/110>

*Alcohol Enhances Economic Demand For Nicotine In Rats Selectively Bred For Alcohol Preference.*

Majors, Chloe

<https://dc.etsu.edu/asrf/2019/schedule/119>

*Nicotine-Enhanced Sign Tracking Results In Greater Cocaine Demand In Rats Using A Behavior Economic Analysis Approach.*

McHale, Leah

<https://dc.etsu.edu/asrf/2019/schedule/177>

*A Novel Compound to Combat Invasive Staphylococcal Species in Human and Animal Medicine & Diseases*

Rauhuff, Hannah

<https://dc.etsu.edu/asrf/2019/schedule/152>

*The Effects of a Novel Anti-inflammatory on Behavioral Tests of Cognition and Anxiety in a Mouse Model of Alzheimer's Disease*

Root, Callie

<https://dc.etsu.edu/asrf/2019/schedule/206>

*Food Intake and Body Weight Gain in Male and Female Mice*

Scott, Kyla

<https://dc.etsu.edu/asrf/2019/schedule/42>

*Short-Chain Fatty Acid Profiles for Mouse Models of Autism Spectrum Disorder*

Shields, Andrew

<https://dc.etsu.edu/asrf/2019/schedule/4>

*Anticipation vs. Opportunism: A Test Of An Ecological Hypothesis Regarding The Diel Distribution Of Locomotor Activity In Spiders.*

### Chemical Sciences

#### **Graduate Students - Master's**

Afolaju, Wasiu

<https://dc.etsu.edu/asrf/2019/schedule/52>

*Hydrolysis of Acetic Anhydride in Water/Tetrahydrofuran Co-solvent Systems Using Eyring Activation Energy Analysis.*



## BALLROOM ROOM 237

Dada, Samson

<https://dc.etsu.edu/asrf/2019/schedule/13>

*Theranostic Nanoparticles for Simultaneous Detection and Treatment of Cancer*

Fatunwase, Akintayo

<https://dc.etsu.edu/asrf/2019/schedule/163>

*Simple Pretreatment of Arundo Donax and Enzymatic Hydrolysis of Cellulosic Materials*

Fobi, Kwabena

<https://dc.etsu.edu/asrf/2019/schedule/188>

*Extraction, Purification, and Characterization of Radioprotective Agent gamma-Tocotrienol Isomer in Palm Oil*

Kuvayskaya, Anastasia

<https://dc.etsu.edu/asrf/2019/schedule/162>

*Use of Suzuki Coupling Reaction for Synthesis of Functionalized Materials*

Oladiran, Oladun

<https://dc.etsu.edu/asrf/2019/schedule/186>

*Computational Studies of the Spin Trapping Behavior of Melatonin and its Derivatives*

### Pharmacy Students

Archibald, Timothy

<https://dc.etsu.edu/asrf/2019/schedule/161>

*One Year Monitoring Of Potency Change In Commercial Ibuprofen Products Stored In A Household Setting Exposed To Normal Day-To-Day Temperature And Humidity Fluctuations*

Jackson, Remonica

<https://dc.etsu.edu/asrf/2019/schedule/238>

*Development and validation of a liquid chromatography-tandem mass spectrometric method for quantification of nicotine in e-cigarette liquids*

### Undergraduate Students

Delsorbo, Carter

<https://dc.etsu.edu/asrf/2019/schedule/156>

*Ruthenium Compounds for Photodynamic Chemotherapeutics and Solar Fuel Generation*

Peters, Jeffery

<https://dc.etsu.edu/asrf/2019/schedule/117>

*Effects of Nicotinamide Riboside and Beta-Hydroxybutyrate on C. elegans Lifespan*

## **BALLROOM ROOM 237**

### **Education**

#### **Graduate Students - Master's**

Ballone, Haley

<https://dc.etsu.edu/asrf/2019/schedule/226>

*Listener Attitudes Towards Individuals with Voice Disorders*

### **Engineering & Technology**

#### **Graduate Students - Master's**

Nanto, Darack

<https://dc.etsu.edu/asrf/2019/schedule/185>

*The Eco-Smart Can*

#### **Undergraduate Students**

Gillenwater, Jacob

<https://dc.etsu.edu/asrf/2019/schedule/27>

*Combining Fitts's Law with Angular Size*

### **Healthcare**

#### **Graduate Students-Doctoral**

Aula, Mercy

<https://dc.etsu.edu/asrf/2019/schedule/150>

*Evaluation of Tomato Farmworker Ergonomics using Electromyography*

Bailey, Sam

<https://dc.etsu.edu/asrf/2019/schedule/148>

*Patient Choice to Opt-In or Opt-Out of Telephonic Health-Related Social Need Navigation Program*

Chan, Adam

<https://dc.etsu.edu/asrf/2019/schedule/72>

*Medical Student Burnout in a Small-Sized Medical School*

Davenport, Brandy

<https://dc.etsu.edu/asrf/2019/schedule/63>

*Public Knowledge and Opinions on Differences Between Hearing Professionals*

**BALLROOM ROOM 237**

Elangovan, Saravanan

<https://dc.etsu.edu/asrf/2019/schedule/164>

*Examining the Effectiveness of Training Protocols of Universal Newborn Hearing Screeners in the Appalachia region of the United States*

Gagnon, Kristy

<https://dc.etsu.edu/asrf/2019/schedule/88>

*Perceptions of Community-dwelling Patients and Caregivers of Patient-Centered Care in Central Appalachia: An Exploratory Study*

Griffin, Cayce

<https://dc.etsu.edu/asrf/2019/schedule/181>

*Comparisons of the VA and Auditec Versions of NU-6 on Older Listeners with SNHL*

Kerrins, Ryan

<https://dc.etsu.edu/asrf/2019/schedule/12>

*Screening, Brief Intervention and Referral to Treatment (SBIRT): Process Improvement in a Nurse-Managed Clinic Serving the Homeless*

McCartt, Paezha

<https://dc.etsu.edu/asrf/2019/schedule/131>

*The Effects of the Patient-Provider Interaction During Contraceptive Counseling on the Satisfaction with and Confidence Using the Selected Birth Control Method Among Southern Women*

Menozi, Lucia

<https://dc.etsu.edu/asrf/2019/schedule/237>

*Objective Measurement of Cognitive Systems During Effortful Listening*

Nwabueze, Christian

<https://dc.etsu.edu/asrf/2019/schedule/134>

*Association Between Substance Use And Weapon-Related Injuries Among Middle And High School Students In The United States*

Okwori, Glory

<https://dc.etsu.edu/asrf/2019/schedule/130>

*Geographic Differences in Contraception Access and Utilization Within Family Planning Organizations in South Carolina*

Pettyjohn, Samuel

<https://dc.etsu.edu/asrf/2019/schedule/24>

*Generational Differences in Support for Syringe Service Programs in Tennessee*

## **BALLROOM ROOM 237**

Ratliff, Brady

<https://dc.etsu.edu/asrf/2019/schedule/33>

*Count It! Lock It! Drop It!: A Descriptive Analysis Of The Intentions And Behaviors Of College Students*

### **Medicine & Diseases**

#### **Graduate Students - Master's**

Awujoola, Adeola

<https://dc.etsu.edu/asrf/2019/schedule/80>

*Association Between Multiple Cardiovascular Comorbidities And The Prevalence Of Heart Attack Among Peripheral Arterial Disease Patients In Rural Central Appalachia.*

Fain, Misty

<https://dc.etsu.edu/asrf/2019/schedule/43>

*NTRK2 Gene Expression Levels in Laser Captured Glutamatergic Neurons From Animal Models of Social Behavior Deficits*

Horstman, Emily

<https://dc.etsu.edu/asrf/2019/schedule/195>

*Infants with Neonatal Abstinence Syndrome: Who Receives SLP Services in the NICU?*

Mokikan, Moboni

<https://dc.etsu.edu/asrf/2019/schedule/71>

*The Influence Of Diabetes On Peripheral Arterial Disease Comorbidities In The Central Appalachian Region Between 2008 And 2018.*

Odebunmi, Olufeyisayo

<https://dc.etsu.edu/asrf/2019/schedule/221>

*Identifying Multiple Risk Factors of Hypertension For Reducing The Prevalence of Peripheral Arterial Disease in Rural Central Appalachia*

#### **Graduate Students-Doctoral**

Alkhateeb, Tuqa

<https://dc.etsu.edu/asrf/2019/schedule/187>

*S100A9 Sustains Myeloid-Derived Suppressor Expansion and Immunosuppression During Chronic Murine Sepsis*

## **BALLROOM ROOM 237**

Cui, Kui

<https://dc.etsu.edu/asrf/2019/schedule/210>

*The Prevention Of Ad $\beta$ 2-Mediated Macrophage Adhesion To Inflamed Extracellular Matrix Thwarts Macrophage Retention During Chronic Inflammation*

### **Pharmacy Students**

Lawson, Sarah

<https://dc.etsu.edu/asrf/2019/schedule/121>

*Quantification of Acetylcholine Release from Splenocytes for Exploration of the Cholinergic Anti-Inflammatory Pathway*

### **Natural Resources & Environmental Sciences**

#### **Graduate Students - Master's**

Bledsoe, April

<https://dc.etsu.edu/asrf/2019/schedule/64>

*Ecological Niche Modeling and Sustainable Agroforestry: Climate Change Mitigation for Guatemalan Coffee*

Mosher, Danika

<https://dc.etsu.edu/asrf/2019/schedule/30>

*Analyzing Winter Weather and Climate Trends of the Ski Resorts in North Carolina Through the Use of Community Collaborative Rain, Hail & Snow Network (CoCoRaHS) Stations*

#### **Undergraduate Students**

Southerland, Megan

<https://dc.etsu.edu/asrf/2019/schedule/69>

*The Distribution and Diversity of Plethodontid Salamanders in Southern Greene County, Tennessee*

### **Physical Science**

#### **Graduate Students - Master's**

Kruske, Montana

<https://dc.etsu.edu/asrf/2019/schedule/74>

*Paleochannel Or Palisade? Preliminary Geophysical Investigations Of A Linear Feature At The Runion Archaeological Site, Washington County, Tennessee*

## **BALLROOM ROOM 237**

### **Undergraduate Students**

Cox, Isaiah

<https://dc.etsu.edu/asrf/2019/schedule/105>

*EDGES: Radial Star Formation Histories in Nearby Galaxies NGC4102 and UGC07608*

Jones, Mark

<https://dc.etsu.edu/asrf/2019/schedule/166>

*Detached Tidal Dwarf Galaxies*

Wagstaff, Peter

<https://dc.etsu.edu/asrf/2019/schedule/165>

*Spatial Extent of Diffuse X-Ray Emitting Regions in Major Merging Galaxies*

### **Social Sciences**

#### **Graduate Students - Master's**

Altier, Heather

<https://dc.etsu.edu/asrf/2019/schedule/107>

*Positive Future Time Perspective, PTSD, and Insomnia in Veterans: Do Anger and Shame Keep You Awake?*

Ogden, Mitchell

<https://dc.etsu.edu/asrf/2019/schedule/138>

*Observing Clusters and Point Densities in Johnson City, TN Crime Using Nearest Neighbor Hierarchical Clustering and Kernel Density Estimation*

Tatro, Kathleen

<https://dc.etsu.edu/asrf/2019/schedule/231>

*Quality of Life as a Protective Factor Against Substance Misuse Among Adults with a History of Adverse Childhood Experiences (ACEs)*

Treaster, Morgan

<https://dc.etsu.edu/asrf/2019/schedule/146>

*"I Forgive Myself and God:" Coping and Distress Among Parents of Children with Disabilities*

#### **Graduate Students-Doctoral**

Barnet, Joseph

<https://dc.etsu.edu/asrf/2019/schedule/85>

*Surrender to God Predicts Lower Levels of Substance Use Addiction*

## BALLROOM ROOM 237

Clingensmith, Rachel

<https://dc.etsu.edu/asrf/2019/schedule/172>

*We All Need Somebody to Lean on: Social Support as a Protective Factor for Individuals with Childhood Adversity*

Gimlin, April

<https://dc.etsu.edu/asrf/2019/schedule/218>

*Exploring Faculty and Students' Attitudes About Consensual Sexual Relationships and Sexual Harassment on College Campuses*

Hall, Benjamin

<https://dc.etsu.edu/asrf/2019/schedule/26>

*Negative Religious Coping and Alcohol Misuse: Forgiveness and Humility among Religious Believers and Non-Believers*

### **Undergraduate Students**

Barker, Morgan

<https://dc.etsu.edu/asrf/2019/schedule/87>

*Association Between Time Trying to Conceive and Self-Perceptions of Female Infertility*

Bishop, Kaelyn

<https://dc.etsu.edu/asrf/2019/schedule/220>

*Changes in Familiarity of Service Providers with Trauma Informed Care Over Time*

Bosse, Samantha

<https://dc.etsu.edu/asrf/2019/schedule/116>

*How Emotional Body Expressions Direct an Infant's First Look*

Brady, Emily

<https://dc.etsu.edu/asrf/2019/schedule/157>

*Physical Abuse in Pregnant Appalachian Mothers: Associations with Religious Values and Forgiveness*

Canini, Mariacristina

<https://dc.etsu.edu/asrf/2019/schedule/145>

*Investigating the EEG Error-Related Negativity in College Students with ADHD, Anxiety, and Depression*

Clark, Emily

<https://dc.etsu.edu/asrf/2019/schedule/144>

*Anticipated Stigma and Anxiety Symptoms: Does Concealment of Sexual Orientation Moderate this Relationship?*

**BALLROOM ROOM 237**

Heineken, Kayla

<https://dc.etsu.edu/asrf/2019/schedule/112>

*Mindfulness and Religiosity/Spirituality as Protecting Factors for Internalizing Symptoms Associated with Adverse Childhood Experiences: A Moderated Moderation Model*

Hernandez, Daisy

<https://dc.etsu.edu/asrf/2019/schedule/214>

*Let's get Personal: The Relationship between Rejection Sensitivity, True Self, and Self-Disclosure in Online Environments*

Hillhouse, Linden

<https://dc.etsu.edu/asrf/2019/schedule/84>

*Data Quality: Does Time of Semester Matter?*

Jones, Matthew

<https://dc.etsu.edu/asrf/2019/schedule/127>

*Comparing Political Campaigns with Respect to Gender: The 2016 Senatorial Election Cycle*

Manis, Hannah

<https://dc.etsu.edu/asrf/2019/schedule/61>

*Relationship Between Joint Attention and Language in Multiparous and Uniparous Households*

Meek, Rachel

<https://dc.etsu.edu/asrf/2019/schedule/179>

*Psychache and Suicide Risk in the LGBTQ Community: Considering the Role of Time Perspective*

Seymore, Candice

<https://dc.etsu.edu/asrf/2019/schedule/48>

*Affect Intensity, Drug Motivations, And Polysubstance Use*

Simerly, Gabriel

<https://dc.etsu.edu/asrf/2019/schedule/193>

*Effects of Self-Care on Undergraduate Stress*

Sluss, Tayla

<https://dc.etsu.edu/asrf/2019/schedule/68>

*Observing the Connection Between the Religious Support Perceived by Children and the Number of Adverse Childhood Experiences Faced*



## BALLROOM ROOM 237

Taylor, Mckenzie

<https://dc.etsu.edu/asrf/2019/schedule/235>

*The Enduring Effects of Conditioned Flavor Cues, Associated with Alcohol-Drinking During Adolescence, on Cue-Induced Alcohol-Drinking and –Seeking in Adulthood*

Todd, Emerson

<https://dc.etsu.edu/asrf/2019/schedule/82>

*Differences in the role of Anticipated Discrimination and Social Support in the Relationship with Depression for TGNC and non-TGNC sexual minorities*

Townsend, Donald

<https://dc.etsu.edu/asrf/2019/schedule/123>

*Political Backlash in Regards to the LGBTQ+ Community in the Past Twelve Years*

Wilson, Elizabeth

<https://dc.etsu.edu/asrf/2019/schedule/86>

*Does Engagement in Online Dating Lead to Greater Dating Success for Rejection Sensitive Individuals?*

## CLINCH MTN. ROOM 215

### Biological Sciences

#### Pharmacy Students

Gregory, Taylor

<https://dc.etsu.edu/asrf/2019/schedule/154>

*RNA-Seq to analyze two related rat Growth Hormone-producing somatotroph cell lines for tissue-specific transcript expression*

### Education

#### Graduate Students - Master's

Alghamdi, Ashwag

<https://dc.etsu.edu/asrf/2019/schedule/25>

*Effects Of An Electronic Schedule On Independence For A Student With Sever Disabilities*

Musick, Katrina

<https://dc.etsu.edu/asrf/2019/schedule/225>

*The Value in Adding Communal Value: Increasing Motivation in STEM Education*

Shue, Winona

<https://dc.etsu.edu/asrf/2019/schedule/222>

*Gender Differences in Spatial Language During Preschool Small Group Geometry Activities*

**CLINCH MTN. ROOM 215**

**Undergraduate Students**

Anderson, Sarah

<https://dc.etsu.edu/asrf/2019/schedule/66>

*Intentional Learning Orientation According To Gender, Age, Rurality, and Program Type*

Webb, Lindsey

<https://dc.etsu.edu/asrf/2019/schedule/141>

*Determining the Validity and Reliability of a Preschool Nutrition Knowledge, Beliefs, and Behaviors Scale through a 6 Week Nutrition Intervention*

**Healthcare**

**Medical Students**

Cox, Taylor

<https://dc.etsu.edu/asrf/2019/schedule/194>

*Reopening Johnson County Hospital: The Beginning of Interprofessional Healthcare Education at ETSU*

Denton, Kacie

<https://dc.etsu.edu/asrf/2019/schedule/205>

*Social Determinants of Health in Belize Free Clinic*

Falodun, Ayotola

<https://dc.etsu.edu/asrf/2019/schedule/96>

*Assessing the Knowledge, Attitudes, and Perceptions of Parents and Caregivers Toward Healthy Lifestyles of Children Aged 0-2 years: ReadNPlay for a Bright Future*

Neighbor, Rebecca

<https://dc.etsu.edu/asrf/2019/schedule/196>

*Viral Hemorrhagic Conjunctivitis Outbreak in Rural Belize*

Pinkston, Justin

<https://dc.etsu.edu/asrf/2019/schedule/8>

*Perception of Cardiovascular Disease Among Adolescence in a Rural Community and the Effectiveness of a Risk Reduction Intervention*

Walker, Taylor

<https://dc.etsu.edu/asrf/2019/schedule/97>

*Association between Childhood Sexual Abuse and Risky Sexual Behavior among Adults in Munsieville Township, South Africa*

## CLINCH MTN. ROOM 215

### Pharmacy Students

Maloney, Rebecca

<https://dc.etsu.edu/asrf/2019/schedule/111>

*Completion of Type 2 Diabetes Comprehensive Care in a Federally Qualified Health Center in Rural Appalachia*

Vinh, Sean

<https://dc.etsu.edu/asrf/2019/schedule/79>

*Impact of Interprofessional Healthcare Student Teams at a Remote Area Medical Event in Rural Appalachia*

### Medicine & Diseases

#### Medical Residents/Clinical Fellows

Towe, Aaron

<https://dc.etsu.edu/asrf/2019/schedule/147>

*Assessing Knowledge, Behavior, and Attitudes of Family Medicine & Diseases Residents toward Opioid Prescribing in Rural South Central Appalachia Residency Program*

#### Medical Students

Dawoud, Fakhry

<https://dc.etsu.edu/asrf/2019/schedule/36>

*ECMO Support for Pediatric Burn Patients: A Potential Life Saving Modality*

Donahue, Andrew

<https://dc.etsu.edu/asrf/2019/schedule/102>

*Ewing-like Sarcoma – Hiding in PA view*

### Pharmacy Students

Dorjsuren, Delgerzul

<https://dc.etsu.edu/asrf/2019/schedule/180>

*Finding Novel and Synergistic Cytotoxic Agents for the Treatment of Multiple Myeloma*

Josey, Devin

<https://dc.etsu.edu/asrf/2019/schedule/133>

*Analysis of full-length transcripts of the Growth Hormone transcription factor ZNF2929 (Zn16) and circular RNA production*

## CLINCH MTN. ROOM 215

Tran, Lily

<https://dc.etsu.edu/asrf/2019/schedule/139>

*Dopaminergic Effects of major Bath Salt Constituents 3, 4-methylenedioxypropylvalerone (MDPV), Mephedrone, and Methylone are Enhanced Following Co-exposure*

Troglin, Courtney

<https://dc.etsu.edu/asrf/2019/schedule/182>

*Pharmacokinetics Of Individual Versus Combined Exposure To "Bath Salts" Compounds Mdpv, Mephedrone, And Methylone*

Wade, Parker

<https://dc.etsu.edu/asrf/2019/schedule/228>

*Additional Hydroxyl Group On Ct6 (3,4-Dihydroxy-5,7-Dimethoxyflavone), A Flavone Extracted From Chromolaena Tacotana Potentially Confers Additional Activity Against Pancreatic Cancer As Compared To Ct7 (4-Hydroxy-5,7-Dimethoxyflavone)*

### Social Sciences

#### Graduate Students - Master's

Parrish, Loni

<https://dc.etsu.edu/asrf/2019/schedule/126>

*Serial Spatial Memory Performance and Physical Activity in Children 5-11 Years Old.*

Simerly, Monica

<https://dc.etsu.edu/asrf/2019/schedule/45>

*Examining the Impact of Art Therapy Related Activities and Emotional Well-being: Make & Take Mondays Program*

#### Undergraduate Students

Daugherty, Abigail

<https://dc.etsu.edu/asrf/2019/schedule/204>

*Perceived Physical Ability and Self-Perception of Adequacy and Enjoyment for Physical Activity in Elementary Students*

Steffey, Brianna

<https://dc.etsu.edu/asrf/2019/schedule/167>

*Attitudes towards Physical Activity Participation and School Engagement in Elementary School Children*

## MT MITCHELL ROOM 220

### Education

#### Medical Residents/Clinical Fellows

Khalid, Muhammad

<https://dc.etsu.edu/asrf/2019/schedule/233>

*High-Grade Renal Leiomyosarcoma: Rare Case Report*

### Healthcare

#### Medical Residents/Clinical Fellows

Axelrad, Mary

<https://dc.etsu.edu/asrf/2019/schedule/213>

*Improving the Referral Process for Behavioral Health Using a Patient-Centered Approach*

Whitfield, Benjamin

<https://dc.etsu.edu/asrf/2019/schedule/136>

*Costs and Benefits of Patient Home Visits in a Family Medicine & Diseases Residency Program*

### Medicine & Diseases

#### Graduate Students-Doctoral

Carey, Andrew

<https://dc.etsu.edu/asrf/2019/schedule/234>

*Asymptomatic Free Air: An Abnormal Presentation of Pneumatosis*

#### Medical Residents/Clinical Fellows

Appareddy, Nina

<https://dc.etsu.edu/asrf/2019/schedule/56>

*ATM Gene Deletion: A Rare Etiology for Hereditary Cancers*

Bokhari, Ali

<https://dc.etsu.edu/asrf/2019/schedule/50>

*A Case of Compensated Thyroid Hormone Resistance*

Carpenter, Matthew

<https://dc.etsu.edu/asrf/2019/schedule/137>

*Toxoplasmosis in Immunocompetent Military Veteran with Overseas Field Deployment*

**MT MITCHELL ROOM 220**

Farmer, Cortney

<https://dc.etsu.edu/asrf/2019/schedule/241>

*Educate Allopathic and Osteopathic Residents on OMT Fundamentals and Indications / Contraindications*

Gaddam, Sathvika

<https://dc.etsu.edu/asrf/2019/schedule/41>

*Acromegaly Treatment and Resolution of Sleep Apnea*

Godfrey, Sean

<https://dc.etsu.edu/asrf/2019/schedule/240>

*A Zebra of Adrenal Insufficiency, What Was Once Common-Now Rare*

Ibrahim, MohD

<https://dc.etsu.edu/asrf/2019/schedule/108>

*Terbinafine Induced Fulminant Hepatic Failure And Patient Death*

Kad, Amiksha

<https://dc.etsu.edu/asrf/2019/schedule/91>

*Asymptomatic Isolated External Iliac Artery Dissection: A Case Report*

Mansurov, Alay

<https://dc.etsu.edu/asrf/2019/schedule/14>

*Myeloid Sarcoma*

Manthri, Sukesh

<https://dc.etsu.edu/asrf/2019/schedule/89>

*A Rare Case of Non-Producing Primary Plasma Cell Leukemia*

Minhas, Ahmed

<https://dc.etsu.edu/asrf/2019/schedule/118>

*Primary Diffuse Large B-Cell Lymphoma of the Sigmoid Colon*

Moka, Nagaishwarya

<https://dc.etsu.edu/asrf/2019/schedule/168>

*Small Cell Lung Cancer(Sclc) Disguised As Dysphagia*

Panta, Utsab

<https://dc.etsu.edu/asrf/2019/schedule/201>

*Osteonecrosis Of Jaw: Common Etiologies, Uncommon Treatments*

## MT MITCHELL ROOM 220

Pearson, Todd

<https://dc.etsu.edu/asrf/2019/schedule/101>

*Hypovolemic Shock as Presentation of Microscopic Polyangiitis*

Rehman, Haroon

<https://dc.etsu.edu/asrf/2019/schedule/77>

*Not Your Regular Run-of-the-Mill Bladder Cancer*

Sheikh, Omer

<https://dc.etsu.edu/asrf/2019/schedule/75>

*COPD exacerbation induced Takotsubo Cardiomyopathy*

Sriramoju, Vindhya

<https://dc.etsu.edu/asrf/2019/schedule/37>

*A Case of Postmenopausal Ovarian Hyperandrogenism of Uncertain Etiology*

St.Clair, Meredith

<https://dc.etsu.edu/asrf/2019/schedule/114>

*Persistent elevation of troponins in the setting of Epstein-Barr Viral infection: A Case Report*

Tawadros, Fady

<https://dc.etsu.edu/asrf/2019/schedule/55>

*Mucosal Associated Lymphoid tissue of the Skin, A Common Entity in a Rare Location.*

### Medical Students

DeMars, Kathleen

<https://dc.etsu.edu/asrf/2019/schedule/76>

*Pneumonia Masking The Presentation Of Incomplete Kawasaki Disease*

Epperson, Daniel

<https://dc.etsu.edu/asrf/2019/schedule/44>

*Spontaneous Esophageal Rupture without Risk Factors*

Gleadhill, Claire

<https://dc.etsu.edu/asrf/2019/schedule/153>

*Time to Think Deeper when HSV is Presenting in an Unusual Way*

Patel, Ankit

<https://dc.etsu.edu/asrf/2019/schedule/216>

*Mesenteric Panniculitis, an Unusual Presentation of Abdominal Pain*

**MT MITCHELL ROOM 220**

Winter, Randi

<https://dc.etsu.edu/asrf/2019/schedule/59>

*Pressure-induced Lipodystrophy from Elbow Compression*

**WHITE TOP MTN. ROOM 225**

**Biological Sciences**

**Graduate Students - Master's**

Parkinson, Sarah

<https://dc.etsu.edu/asrf/2019/schedule/17>

*The Gut Microbiome and Inflammation in Autism Spectrum Disorder*

**Engineering & Technology**

**Graduate Students - Master's**

Nshimiyimana, Jean Marie

<https://dc.etsu.edu/asrf/2019/schedule/32>

*Development of Public Health Indicator Visualization Tool*

**Healthcare**

**Graduate Students - Master's**

Buchanan, Courtney

<https://dc.etsu.edu/asrf/2019/schedule/209>

*Young Adults with Cleft Lip and Palate: Personal Perspectives on Transition of Care*

Chowdhury, Nusrat Jahan

<https://dc.etsu.edu/asrf/2019/schedule/51>

*Design and Development of a Comprehensive and Interactive Diabetic Parameter Monitoring System*

Dubasi, Hima Bindu

<https://dc.etsu.edu/asrf/2019/schedule/20>

*Sociodemographic Factors and Health-Risk Behaviors Associated with Recent Utilization of Dental Services Among South-Central Appalachian Adolescents*

Jawla, Muhammed

<https://dc.etsu.edu/asrf/2019/schedule/38>

*Factors Influencing Attitude Towards The Use of Mosquito Nets in Households in The Gambia*



**WHITE TOP MTN. ROOM 225**

Olanrewaju, Folawiyo

<https://dc.etsu.edu/asrf/2019/schedule/90>

*Hepatitis C Virus Screening in Federally Qualified Health Centers in Rural Appalachia*

Yin, Jie

<https://dc.etsu.edu/asrf/2019/schedule/239>

*Association between Stigma and Intimate Partner Violence among Newly HIV-Diagnosed Chinese Men Who Have Sex with Men*

**Undergraduate Students**

Cuevas, Maritza

<https://dc.etsu.edu/asrf/2019/schedule/53>

*Self-report Participation of Physical Activity Outside School on Rate of Motor Skills Development in Elementary Students*

Greasamar, Emily

<https://dc.etsu.edu/asrf/2019/schedule/15>

*Systematic Screening to Identify Medication Lockbox Needs in Pediatric Primary Care*

Peters, Avery

<https://dc.etsu.edu/asrf/2019/schedule/183>

*Investigation Into Characteristics Of Bench Press Using Push™ Band*

Rush, Mary

<https://dc.etsu.edu/asrf/2019/schedule/129>

*Medical Scribes in a Family Medicine & Diseases Residency Program: An Implementation Outcomes Study*

**Medicine & Diseases**

**Graduate Students - Master's**

Awasthi, Manul

<https://dc.etsu.edu/asrf/2019/schedule/47>

*An Association Between Smoking Status And Homocysteine Levels And Whether This Association Is Modified By Sex Hormones And Cholesterol.*

Ramzan, Naveen

<https://dc.etsu.edu/asrf/2019/schedule/21>

*Investigating The Association Between Chronic Kidney Disease and Clinical Outcomes.*

### Undergraduate Students

Alkhateeb, Hebah

<https://dc.etsu.edu/asrf/2019/schedule/49>

*Parp1 Inhibition Produces Unique Antidepressant Effects In An Animal Model Of Treatment-Resistant*

Beasley, Brooke

<https://dc.etsu.edu/asrf/2019/schedule/34>

*Laser Capture Microdissection Analysis of Inflammatory-Related Alterations in Postmortem Brain Tissue of Autism Spectrum Disorder*

Davis, Danisha

<https://dc.etsu.edu/asrf/2019/schedule/122>

*The Role of Osteopontin in Extracellular Matrix Remodeling Following Chronic Sympathetic Stimulation in The Aging Heart*

Hillard, Kynlee

<https://dc.etsu.edu/asrf/2019/schedule/11>

*The Effect Of Leptin On Metabolic- And Cardiovascular-Related Pre-Sympathetic Hypothalamic Neurons In*

McCouston, Pearl

<https://dc.etsu.edu/asrf/2019/schedule/132>

*The Role of the Ataxia Telangiectasia Mutated Kinase on Diastolic and Systolic Function in Diabetic Cardiomyopathy*

Mounger, David

<https://dc.etsu.edu/asrf/2019/schedule/58>

*GLP-1 Agonist Liraglutide Increases Metabolic- And Cardiovascular-Related Sympathetic Activity Of The Central Nervous System.*

Musick, Adam

<https://dc.etsu.edu/asrf/2019/schedule/207>

*Effect of Sepsis on Circulating CTRP3 Levels*

Rutherford, Noah

<https://dc.etsu.edu/asrf/2019/schedule/223>

*Expression of Oxidized Protein Hydrolase in Bladder Cancers*

**WHITE TOP MTN. ROOM 225**

Seaton, Hayley

<https://dc.etsu.edu/asrf/2019/schedule/125>

*The Role of Estrogen Deficiency on Cardiovascular Disease following Chronic Sympathetic Stimulation*

Trogen, Greta

<https://dc.etsu.edu/asrf/2019/schedule/120>

*Circulating Oligomeric State and Circadian Rhythm Regulation of CTRP3*

Yarid, Colin

<https://dc.etsu.edu/asrf/2019/schedule/94>

*Maturation and synapse formation of olfactory sensory neurons after injury*

**Social Sciences**

**Graduate Students - Master's**

Weiner, Jessica

<https://dc.etsu.edu/asrf/2019/schedule/192>

*Clinician-Research Collaboration: Determining Research Interests & Needs of Clinicians in the Tri-Cities, Tennessee*