

2017 ASRF Award Winners

Note to Award Winners:

You must fill out the Award Winners form in order to receive your monetary award. If you did not fill one out immediately after the Awards Ceremony, you must come to the Office of Research and Sponsored Programs, 4th floor of Ross Hall, and fill out the form in person. You will need to know your E-number.

Poster Presentations

Undergraduates

Society, Behavior, Learning

First Place, Group A:

Bailey Christoforatos, The University of Virginia's College at Wise
Faculty Sponsor: Alexandria Reynolds
ACADEMIC MAJOR AND GENDER ASSOCIATIONS WITH SLEEPINESS IN COLLEGE STUDENTS

Second Place, Group A:

Cheyenne Collier, The University of Virginia's College at Wise
Faculty Sponsor: James Horton
DIFFERENCES IN NEURAL ACTIVITY AND LOCATION CORRELATED WITH VIEWING THREATENING OR ATTRACTIVE IMAGES OF INDIVIDUALS OF THE SAME OR DIFFERENT SEX AND RACE

First Place, Group B:

Aaron Gardner
Faculty Sponsor: Eric Sellers
P300 BRAIN COMPUTER INTERFACE: TWO-STIMULUS PRESENTATION PARADIGM

Second Place, Group B:

Hayat Dergaga
Faculty Sponsor: Paul Kalmonick
PRIMARY VS. SECONDARY VIOLENCE EXPOSURE AND MENTAL HEALTH OUTCOMES IN YOUTH WHO ENGAGE IN SEXUALLY ABUSIVE BEHAVIORS

First Place, Group C:

Olivia Moses
Faculty Sponsor: Jason Steadman
YIK YAK: THE STUDY OF ANONYMOUS RACISM

Second Place, Group C:

Megan Jordan
Faculty Sponsor: Jameson K. Hirsch
STIGMA AND SUICIDE RISK AMONG THE LGBTQ POPULATION: CONDITIONAL INDIRECT EFFECTS OF DEPRESSION AND CONNECTEDNESS

First Place, Group D:

Pooja Shah

Faculty Sponsor: Jodi Southerland

SOCIAL SUPPORT FOR PHYSICAL ACTIVITY FOR HIGH SCHOOLERS IN RURAL APPALACHIA

Second Place, Group D:

Brittany Sharma

Faculty Sponsor: Jill Stinson

DEVELOPMENT OF SEXUALLY ABUSIVE BEHAVIOR IN ADOLESCENT MALES WHO HAVE BEEN SEXUALLY VICTIMIZED

Natural Sciences

First Place, Group A:

Fletcher Griffiths

Faculty Sponsor: Frank Hagelberg

DENSITY FUNCTIONAL THEORY (DFT) STUDIES ON CHARGE CARRIER TRANSMISSION THROUGH PORPHYRIN-FULLERENE COMPLEXES

Second Place, Group A:

Alexis Hall

Faculty Sponsor: Brooks Pond

THE IMPACT OF MOZART MUSIC ON THE HIPPOCAMPUS

First Place, Group B:

Ashton Morelock

Faculty Sponsor: Richard Ignace

FINITE SOURCE EFFECTS IN THE MICROLENSING OF RADIAL PULSATING STARS

Second Place, Group B:

Nathan Spaulding

Faculty Sponsor: Cecilia McIntosh

DETERMINATION OF THE SUBSTRATE SPECIFICITY OF THE MUTANT D344P OF CITRUS PARADISI FLAVONOL SPECIFIC 3-O-GLUCOSYLTRANSFERASE

Biomedical and Health Sciences

First Place, Group A:

Sophie Bremer

Faculty Sponsor: Dr. Sean Fox

MICROBIAL WARFARE: THE INHIBITORY EFFECTS OF ALCALIGENES FAECALIS ON STAPHYLOCOCCUS AUREUS AND CANDIDA ALBICANS

Second Place, Group A:

Brooke Beasley

Faculty Sponsor: Michelle Chandley

PATHOLOGY OF INSULIN LIKE GROWTH FACTOR IN THE ANTERIOR CINGULATE CORTEX IN AUTISM

First Place, Group B:

Kristina Lim

Faculty Sponsor: Krishna Singh

EXTRACELLULAR UBIQUITIN MODULATES IMMUNE RESPONSE DECREASING THE ADVERSE EFFECTS OF MYOCARDIAL ISCHEMIA/REPERFUSION INJURY IN MICE

Second Place, Group B:

Caitlynn De Preter

Faculty Sponsor: Russell Brown

POLY ADP-RIBOSE PROTEIN (PARP) INHIBITION ALLEVIATED BEHAVIORAL ENDOPHENOTYPES DUE TO STRESS IN A RODENT DOUBLE-HIT MODEL OF MAJOR DEPRESSIVE DISORDER.

First Place, Group C:

Thomas Stovall

Faculty Sponsor: Dr. Sean Fox

INHIBITORY EFFECTS OF A NOVEL GEL ON BACTERIA TYPICALLY ASSOCIATED WITH BURN WOUND INFECTIONS

Second Place, Group C:

Westley Ongtengco

Faculty Sponsor: Gregory Ordway

DNA REPAIR ENZYME GENE EXPRESSION IN WHITE MATTER OLIGODENDROCYTES FROM RATS EXPOSED TO SOCIAL DEFEAT AND UNPREDICTABLE STRESS: MODELING THE BIOLOGY OF MAJOR DEPRESSIVE DISORDER

Graduate Students, Master's Candidates

Society, Behavior and Learning

First Place, Group A:

Olakunle Oni

Faculty Sponsor: Shimin Zheng

ASSOCIATION BETWEEN HEAVY ALCOHOL CONSUMPTION AND CORONARY HEART DISEASE AMONG U.S. ADULTS: USING THE 2015 BRFS ANNUAL SURVEY DATA

First Place, Group B:

Morgan Treaster

Faculty Sponsor: Dr. Jameson K. Hirsch

SHAME, GUILT, AND SUICIDE RISK AMONG VETERANS: SELF-COMPASSION AS A MODERATOR

Second Place, Group B:

Heather Owens

Faculty Sponsor: Megan Quinn

EFFECTS OF ADVERSE CHILDHOOD EXPERIENCES ON MENTAL HEALTH

Natural Sciences

First Place, Group A:

Aaron Birchfield

Faculty Sponsor: Cecilia McIntosh

CRYSTALLIZATION OF A FLAVONOL-SPECIFIC-3-O GLYCOSYLTRANSFERASE FOUND IN GRAPEFRUIT

Second Place, Group A:

Cayla Cannon

Faculty Sponsor: Eileen Ernenwein

IN SEARCH OF THE PEOPLE WHO LIVED HERE BEFORE: USING ARCHAEOLOGICAL
GEOPHYSICS AND TEST EXCAVATIONS AT A TENNESSEE STATE HISTORIC SITE

First Place, Group B:

Ashley Herrig

Faculty Sponsor: Thomas C. Jones

METAGENOMICS REVEALS MICROBIOME ASSOCIATIONS WITH PERSONALITY IN A
SOCIALY POLYMORPHIC SPIDER, ANELOSIMUS STUDIOUS (ARANEAE: THERIDIIDAE)

Second Place, Group B:

Alexander DeMarco

Faculty Sponsor: Thomas C. Jones

THE ROLE OF BIOGENIC AMINES ACROSS BEHAVIORAL CONTEXTS IN THE FUNNEL-
WEB SPIDER, AGELENOPSIS PENNSYLVANICA

Biomedical and Health Sciences

First Place, Group A:

Tuqa Alkhateeb

Faculty Sponsor: Dr. Don Hoover

EFFECTS OF ACUTE SEPSIS ON RENAL STRUCTURE AND SYMPATHETIC INNERVATION
IN MICE

Second Place, Group A:

Ashley DeGroat

Faculty Sponsor: Jonathan Peterson

THE EFFECT OF ALCOHOL CONSUMPTION ON ADIPOKINE SECRETION

First Place, Group B:

Sushant Khanal

Faculty Sponsor: Ranjan Chakraborty

IDENTIFICATION OF "FHUA" LIKE RECEPTORS IN RHIZOBIUM LEGUMINOSARUM ATCC
14479 FOR "VICIBACTIN" TRANSPORT AND INVESTIGATION OF HEME BOUND IRON
UPTAKE SYSTEM

Second Place, Group B:

Julie Phillips

Faculty Sponsor: Kerry Proctor-Williams

THE NARRATIVE SKILLS OF CHILDREN WITH SPECIFIC LANGUAGE IMPAIRMENT AND
TYPICAL LANGUAGE

Doctoral Candidates, Medical Residents and Clinical Fellows

Society, Behavior and Learning

First Place:

Trever Dangel

Faculty Sponsor: Jon Webb

FORGIVENESS AND SUICIDAL BEHAVIOR IN VETERANS: THE MEDIATING ROLE OF SHAME AND GUILT

Second Place:

Dennis Gilfillan

Faculty Sponsor: Phillip Scheuerman

COMMUNITY LEVEL PHYSIOLOGIC PROFILES AS A SOURCE TRACKING MECHANISM FOR SURFACE WATER POLLUTION

Doctoral Candidates and Post-Doctoral Fellows

First Place:

Imdadul Haq

Faculty Sponsor: Aruna Kilaru

CHARACTERIZATION OF FATTY ACID AMIDE HYDROLASE IN *PHYSCOMITRELLA PATENS*

Second Place:

W Drew Gill

Faculty Sponsor: Russell Brown

INHIBITION OF TUMOR NECROSIS FACTOR ALPHA RESULTS IN ALLEVIATION OF PREPULSE INHIBITION DEFICITS IN A RODENT MODEL OF SCHIZOPHRENIA

Third Place:

Fei Tu

Faculty Sponsor: Chuanfu Li

ENDOTHELIAL SPECIFIC DEFICIENCY OF HSPA12B ENHANCES LACTATE PRODUCTION AND IMPAIRS BACTERIAL CLEARANCE IN POLYMICROBIAL SEPSIS

Medical Students

First Place, Group A:

Jeremy Jacobs

Faculty Sponsor: Michael Kruppa and Jennifer Hall

FUNGAL-BACTERIAL INTERACTIONS: HOW DOES CANDIDA INFLUENCE THE DISEASE-CAUSING POTENTIAL OF TWO SEXUALLY TRANSMITTED BACTERIA

Second Place, Group A:

Marie Moulton

Faculty Sponsor: Deidre Pierce

FINDING THE WORDS FOR STROKE

First Place, Group B:

Abby Schultz

Faculty Sponsor: Ivy Click

IMPROVING EVIDENCE BASED PRACTICES OF LONG ACTING REVERSIBLE
CONTRACEPTIVES IN A RURAL COMMUNITY OF NORTHEAST TENNESSEE

Second Place, Group B:

Rebecca Proctor

Faculty Sponsor: Tiffany Lasky

COMPARISON OF RADIAL ARTERY PUNCTURE SIMULATION MODALITIES: LOW
FIDELITY SIMULATION MODEL VS NOVEL THIEL-EMBALMED CADAVERIC MODEL

Pharmacy Students**First Place, Group A:**

Caden Cox

Faculty Sponsor: Victoria Palau

THE EFFECTS OF FURANOXAPALAMINE ON COLON CANCER CELLS AS A NOVEL
TREATMENT OPTION

First Place, Group B:

Amanda Linna

Faculty Sponsor: Charles Collins

A HPLC ANALYSIS TECHNIQUE OF COENZYME Q10

Medical Residents and Clinical Fellows***Biomedical and Health Sciences*****First Place, Group A:**

Martha Cole

Faculty Sponsor: Patricia Conner

ENCOURAGING BREASTFEEDING IN CONTINUITY OF PATIENTS AMONG FAMILY
MEDICINE RESIDENTS BY DEVELOPING BREASTFEEDING EDUCATION CURRICULUM

Second Place, Group A:

Tyler Elam

Faculty Sponsor: Patricia Conner

LEADERSHIP TRAINING IN A FAMILY MEDICINE RESIDENCY: DEVELOPING A FORMAL
CURRICULUM FOR RESIDENT LEADERSHIP SKILLS

First Place, Group B:

Angel Turner

Faculty Sponsor: Patricia Conner

IMPROVING PHYSICIAN UNDERSTANDING OF ADVANCE DIRECTIVES IN A FAMILY
MEDICINE RESIDENCY PROGRAM

Second Place, Group B:

Richard Veerman

Faculty Sponsor: Jodi Polaha

A TEST OF INTERVENTIONS TO ADDRESS IMMUNIZATION RATES IN A FAMILY
MEDICINE CLINIC

Case Studies

First Place, Group A:

Lakshmi Kallur

Faculty Sponsor: Alexei Gonzalez

AMOXICILLIN INDUCED SWEET SYNDROME

Second Place, Group A:

Ashley Ham

Faculty Sponsor: Kathryn Idol Xixis

SUBCLINICAL SEIZURES IN A PATIENT WITH AUTISM SPECTRUM DISORDER AND
SPEECH DELAY

First Place, Group B:

Jessica Stephens

Faculty Sponsor: Bracken Burns

TRAUMATIC SMALL BOWEL PERFORATION WITHIN PREEEXISTING VENTRAL HERNIA: A
CASE REPORT AND LITERATURE REVIEW

Second Place, Group B:

Nandita S Rao

Faculty Sponsor: Bracken Burns

TRAUMATIC ADRENAL HEMORRHAGE MASKING AS A PSEUDOTUMOR

Oral Presentations

Master's Candidates

Natural, Biomedical and Health Sciences

First Place, Group A:

Trevor Chapman

Faculty Sponsor: Joseph Bidwell

ENEMY EXACERBATION: EFFECTS OF PREDATOR STRESS ON SULFATE TOXICITY IN FRESHWATER AMPHIPODS

First Place, Group B:

Kenneth Seaton

Faculty Sponsor: Aleksey Vasiliev

EFFICIENT ADSORBENT FOR CLEAN-UP OF WATER AFTER A NUCLEAR ACCIDENT

Second Place, Group B:

Melissa Campbell

Faculty Sponsor: Joseph Bidwell

EFFECTS OF PREDATORY CUES ON COPPER SENSITIVITY AND METABOLIC RATE IN GAMBUSIA AFFINIS

Society, Behavior, Learning, Humanities and Business

First Place, Group A:

Oluwaseun Agboola

Faculty Sponsor: Anna C. Hiatt

INCLUSIVE TEACHING STRATEGIES: AN EVALUATION OF COURSE STRUCTURE AND SUMMATIVE ASSESSMENT IN INTRODUCTORY BIOLOGY

Second Place, Group A:

Byron Brooks

Faculty Sponsor: Jameson K. Hirsch

ANTICIPATED DISCRIMINATION AND SUICIDE RISK AMONG SEXUAL MINORITIES AFTER THE 2016 PRESIDENTIAL ELECTION: DOES LOSS OF HOPE AND FEELING STRESSED OUT EXPLAIN THE LINK?

First Place, Group B:

Reem Tariq

Faculty Sponsor: Phillip Scheuerma

COMPARATIVE ANALYSIS OF SURVIVAL AND DECAY OF FECAL INDICATORS IN BOVINE FECES AND FRESHWATER MICROCOSM

Second Place, Group B:

Sarah Job

Faculty Sponsor: Stacey Williams

MEDIA EXPOSURE, ANTICIPATED STIGMA, AND SPIRITUAL WELL-BEING IN THE LGBTQ+ POPULATION FOLLOWING THE 2016 PRESIDENTIAL ELECTION

Third Place, Group B:

Veronica OBrien

Faculty Sponsor: Elizabeth Likis-Werle

CLIENT EXPERIENCES OF MINDFULNESS MEDITATION IN THE COUNSELING SETTING: A QUALITATIVE STUDY

Doctoral Candidates:***Natural, Biomedical and Health Sciences*****First Place:**

Rebecca Wilson

Faculty Sponsor: Thomas C. Jones

INVESTIGATING THE INFLUENCE OF BIOGENIC AMINES ON THE CIRCADIAN RHYTHMICITY OF ANTI-PREDATOR BEHAVIOR IN ORB-WEAVING SPIDERS

Second Place:

Richard Sante

Faculty Sponsor: Theo Hagg

ALPHA-V BETA-5 INTEGRIN MEDIATES VITRONECTIN-INDUCED PRO-INFLAMMATORY CYTOKINES IN THE BRAIN AFTER STROKE

Third Place:

Mahbubur Rahman

Faculty Sponsor: Aruna Kilaru

AVOCADO DIACYLGLYCEROL ACYLTRANSFERASE 1 IS A KEY ENZYME TO GENERATE HEALTHY OILS

Social and Behavioral Sciences**First Place, Group A:**

Emma Fredrick

Faculty Sponsor: Dr. Stacey Williams

LGBT COMMUNITY CONNECTEDNESS AND ALCOHOL USE

First Place, Group B:

Jessica McKinney

Faculty Sponsor: Jameson K. Hirsch

POSTTRAUMATIC GROWTH AND SHAME/GUILT IN VETERANS: DOES TIME (PERSPECTIVE) REALLY HEAL ALL WOUNDS?

Medical Residents and Clinical Fellows***Biomedical and Health Sciences*****First Place:**

Harika Balagoni

Faculty Sponsor: Alexei Gonzalez

YOU TUBE AS A SOURCE OF INFORMATION FOR IRRITABLE BOWEL SYNDROME: A CRITICAL APPRAISAL

Case Studies

First Place:

Dheeraj Reddy

Faculty Sponsor: Devapiran Jaishankar

ANAPLASTIC THYROID CARCINOMA: A HARSH HISTOLOGY AMIDST A GENERALLY CURABLE CANCER

Post-Doctoral Fellows

First Place:

Abbey Mann

Faculty Sponsor: Stacey Williams

SEXUAL MINORITY WOMENS ACCESS TO HEALTHCARE