



**UAMS**



**Student  
Research Day  
March 7, 2023**

*2023 McGehee Distinguished Lecture  
Speaker*

**Dr. John D. Carpten**

**Professor and Chair of Translational Genomics  
Director, Institute of Translational Genomics  
Royce and Mary Trotter Chair in Cancer Research**

*“Population and Tumor Heterogeneity in  
Cancer Research”*

**Dr. Carpten will offer the keynote presentation at 8:30 a.m.**

UAMS hosts an annual campus-wide Student Research Day for graduate and professional students, postdocs, and medical house staff/fellows to present their research to peers and faculty. This event provides an opportunity to discuss research and learn about potential areas of collaboration.

# **STUDENT RESEARCH DAY 2023 MISSION POSSIBLE TEAM**

**The Division of Research and Innovation, Academic Affairs, Graduate School, and Northwest campus have collaborated on this year's Student Research Day.**

## **Student Research Day 2023 was sponsored by:**

**Dr. Stephanie Gardner**; Senior Vice Chancellor for Academic Affairs and Provost

**Dr. Shuk-Mei Ho**; Vice Chancellor for Research and Innovation

**Dr. Robert McGehee, Jr.**; Dean, UAMS Graduate School

## **Organizing Committee:**

**Dr. Antiño R. Allen**; Associate Dean of Pipeline and Career Development

**Dr. Mohamed O. Elasri**; Associate Vice Chancellor for Research

**Dr. Kathryn Neill**; Associate Provost for Academics

**Lauren Parker**; Director of Student Services, Northwest Arkansas UAMS Campus

**Dr. Kristen Sterba**; Associate Provost for Students and Administration

**We thank all the Academic Senate members who recruited, organized poster judging and all the faculty judges for volunteering their time.**

**Jennifer Gan**, MBA, CRS; Program Administrator/Research Instructor

**Dr. Reid Landes**; Professor of Biostatistics

**Student Research Day would not be possible without the tireless contribution of our event team:**

**Marie David, Dr. Kerry Evans, Eileen Mok, Shanon Porterfield, and Mickey**

**Thomas**; Division of Research and Innovation

## **Other contributors:**

**Dr. David Ussery**; Professor, College of Medicine, Biomedical Informatics

# Student Research Day

March 7, 2023

## AGENDA

**Little Rock location** – I. Dodd Wilson building

**Northwest campus location** – Main Building/Hospital

7:30 – 8:30	Boxed breakfast/Poster setup
8:30 – 9:30	Keynote Speaker- John D. Carpten, PhD
9:30 -10:00	Mid-morning break
10:00 – 11:30	Poster Session A – Little Rock and Northwest campuses
11:30 – 11:45	Break/transition poster presenters/judges
11:45 – 1:15	Poster Session B – Little Rock campus
1:15 – 1:30	Break/wrap up
1:30 – 2:30	3MT Finals
2:30 – 2:45	Award Ceremony

*\* Boxed breakfasts and boxed lunches will be available for research day participants on Little Rock campus.*

*\*\* Northwest campus participants will have lunch 11:45 am – 1:15 pm.*

*\*\*\* Following Student Research Day, College of Medicine Office of Research and Department of Biomedical Informatics will host a meeting on “Artificial Intelligence in Health” from 5:00 pm – 6:00 pm in the 10<sup>th</sup> floor atrium of the Cancer Institute.*



The 2023 McGehee Distinguished Lecture is titled,

***“Population and Tumor Heterogeneity in Cancer Research”***

Dr. Carpten is an internationally recognized expert in genome science, and possesses unique training in multiple disciplines including germline genetics for disease risk and predisposition, somatic cancer genomics, health disparities research, cell biology, functional genomics, and precision medicine.

Dr. Carpten earned his Ph.D. from the Ohio State University in 1994 with a focus on human genetics. He then went on to complete a postdoctoral fellowship at the National Human Genome Research Institute, NIH, Bethesda, in Cancer Genetics, where he was later promoted to the tenure track in 2000. Then in 2003, Dr. Carpten accepted a position to become Division Director, Division of Integrated Cancer Genomics, at the Translational Genomics Research Institute (TGen), Phoenix, AZ. Later, in 2012 he was promoted to the position of Deputy Director of Basic Research for TGen. In 2016 he was recruited by the University of Southern California Keck School of Medicine, to build and chair a new Department and Institute of Translational Genomics.



**The Robert E. McGehee Jr., Ph.D. Distinguished Lectureship in Biomedical Research and Education** was created in 2011 as an enduring gift to benefit UAMS and the state by making it possible to invite leading biomedical researchers to share their knowledge and work with students and faculty. The lecture was made possible by a very generous endowment gift from Carl D. and Jeannette Purnell of Pine Bluff, Arkansas, in appreciation of McGehee's support and influence as a mentor. In 2005, Carl and Jeannette were inducted into the Society of the Double Helix in recognition of their long-standing support of UAMS. Previous gifts from the Purnell's included support for endowed chairs honoring the late former Chancellor Harry P. Ward, M.D., and the late Carl Nelson, M.D., former professor, and chair of Orthopedic Surgery, as well the Winthrop P. Rockefeller Cancer Institute.

**Poster Session A**  
**10:00 – 11:30**

**Jennie Burns (1A)**

*Tandem gait step-width declines more rapidly in a stage-dependent manner with Parkinson's disease progression*

College of Medicine

Advisor: Dr. Tuhin Virmani

**Brett Glenn (2A)**

*Accessibility and Ease of Use in Neuromodulation Devices*

College of Medicine

Advisor: Dr. Erika Petersen

**Payton Stowe (3A)**

*Is polyunsaturated fat consumption too low in children and adolescents (ages 1-18)?*

College of Health Professions

Advisor: Dr. Lisa Jansen

**Alexandria Singleton (4A)**

*Sugar Intake Levels in U.S. Adults Ages 18-64 Years – Are There Differences Across Biological Sex or Socioeconomic Status?*

College of Health Professions

Advisor: Dr. Courtney Fose

**Hope Snyder (5A)**

*Americans  $\geq$  51 Years Self-Report Polyunsaturated Fatty Acid (PUFA) Intake Above the Recommendations; But Total Cholesterol Positively Correlates to PUFA intake*

College of Health Professions

Advisor: Dr. Lisa Jansen

**Abby Benham (6A)**

*Dietary Vitamin D Intake and its Correlation with Bone Mineral Density in US Children Ages 8-14 from NHANES Data (2017-2018)*

College of Health Professions

Advisor: Dr. Wei Li

**Catey Abbott (7A)**

*Tianeptine (Gas Station Heroine) and the Rising Concern of Withdrawal and Abuse Potential*

College of Medicine

Advisor: Dr. Sarah Assem

**Mary Cris Lebig (8A)**

*The Differences Between Vitamin D Intake Status of Older Americans In Lower- and Higher-Socioeconomic Status*

College of Health Professions

Advisor: Dr. Wei Li

**Delice Kayishunge (9A)**

*Epidemiologic Trends of Cutaneous T-Cell Lymphoma in Arkansas Reveals Demographic Disparities*

College of Medicine

Advisor: Dr. Henry Wong

**Clark Kennedy (10A)**

*Evaluating Geographic Distribution and Environmental Risk Factors of Orofacial Cleft Anomalies Utilizing a Statewide Birth Defects Registry*

College of Medicine

Advisor: Dr. Adam Johnson

**Stephen Fagot (11A)**

*Thermoregulatory and locomotor effects of 3,4-methylenedioxymethamphetamine (MDMA), its enantiomers, and a non-racemic mixture of S-MDMA and R-MDMA (ALA-002) in C57BL/6 and BTBR T+Ipr3tf/J mice.*

College of Medicine

Advisor: Dr. William Fantegrossi

**Jared James (12A)**

*Respiratory depressant effects of synthetic cannabinoid receptor agonists alone and in combination with fentanyl in NIH Swiss mice.*

College of Medicine

Advisor: Dr. William Fantegrossi

**Genna Potter (13A)**

*Who Qualifies as High Risk for Periprosthetic Joint Infection Following Primary Hip and Knee Arthroplasty?*

College of Medicine

Advisor: Dr. Simon Mears

**Kathleen Kinder (14A)**

*Articulating Knee Spacers in the Treatment of Periprosthetic Joint Infection: All Polyethylene Tibia or Tibial Insert?*

College of Medicine

Advisor: Dr. Jeffrey Stambough

**John Hunton (15A)**

*Weak Tennis Grip From Pisotriquetral Mass Effect*

College of Medicine

Advisor: Dr. Lauren Poindexter

**Matthew Thompson (16A)**

*DNA Helicase B (HELB) safeguards genomic integrity in response to DNA replication stress*

Graduate School

Advisor: Dr. Alicia Byrd

**Farhana Taher Sumya (17A)**

*Acute COG inactivation unveiled its immediate impact on Golgi and illuminated the nature of intra-Golgi recycling vesicles*

Graduate School

Advisor: Dr. Vladimir Lupashin

**Anna Mears (18A)**

*Comparison of vascular hitch to dismembered technique for robotic pyeloplasty*

College of Medicine

Advisor: Dr. Stephen Canon

**Meghan Crimmins (19A)**

*The Impact of Excessive Weight on Breastfeeding Intention, Initiation, and Duration*

Graduate School

Advisor: Dr. Aline Andres

**Alex Belote (20A)**

*Pre-Treatment Hesitation and Post-Treatment Satisfaction Amongst Recipients of Novel COVID-19 Therapy in an Underserved Community*

College of Medicine

Advisor: Dr. Hannah Jensen

**Miguel Mercado (21A)**

*Bhlhe40 plays a protective role during intravaginal Chlamydia muridarum infection in mice*

Graduate School

Advisor: Dr. Lin-Xi Li

**Blaire Taggart (22A)**

*Role of a Multidisciplinary "Period Clinic" for Management of Adolescents with Abnormal Uterine Bleeding*

College of Medicine

Advisor: Dr. Shelley Crary

**Thomas Heye (23A)**

*Creation of a Novel ECMO Database*

College of Medicine

Advisor: Dr. Lawrence Greiten

**Hudson Surber (24A)**

*Evaluating Clinical Profile and Safety in Outpatient versus Inpatient Neck Dissections*

College of Medicine

Advisor: Dr. Jumin Sunde

**Aaron Gaul (25A)**

*Extending Long Cervical Fusion Across the Cervicothoracic Junction*

College of Medicine

Advisor: Dr. John Sherrill

**Darynne Dahlem (26A)**

*Cognitive and Achievement Functioning in Children & Adolescents with Sickle Cell Disease*

College of Medicine

Advisor: Dr. Shelley Crary

**Monroe McKay (27A)**

*Complex D-Transposition of the Great Arteries with Aortopulmonary Window: An Update on the Current Literature*

College of Medicine

Advisor: Dr. Lawrence Greiten

**Jordan Pilkington (28A)**

*Analysis of novel Sezary syndrome genes in mycosis fungoides reveal genes common across stages and those associated with advanced stages*

College of Medicine

Advisor: Dr. Henry Wong

**Rilie Vote (29A)**

*Mevalonate Pathway Inhibitors Potentiate the Efficacy of Chemotherapeutic Drugs to Limit Breast Cancer Cell Growth*

College of Pharmacy

Advisor: Dr. Rupak Pathak

**Li Ma (30A)**

*Analyzing Methylation Patterns of Cis-regulatory Regions*

Graduate School

Advisor: Dr. Donald Johann

**Xiuqi Wang (31A)**

*Design, synthesis and biological evaluations of bone-targeting Pyk2 inhibitors for treatment of glucocorticoid induced bone loss*

Graduate School

Advisor: Dr. Hong-Yu Li

**Aimee Tran (32A)**

*Revised PENIS Scoring Criteria and Proposal of the PACKAGE Checklist: A Meta-epidemiological Study on Penile Amputation and Replantation*

College of Medicine

Advisor: Dr. Bruno Machado



**JaVonnica Smith (33A)**

*This Freedom of Speech Ain't Free*  
College of Health Professions

Advisor: Dr. Andrea Toliver-Smith

**Carlton Gragg (34A)**

*Investigation of MYD88 i-Motif Destabilization with Small Molecules to Combat Diffuse Large B-cell Lymphoma*  
College of Medicine

Advisor: Dr. Samantha Kendrick

**Parker Knapp (35A)**

*Comparison of Cardiac Dysfunction in Pediatric ICU Patients with COVID vs. Influenza*  
College of Medicine

Advisor: Dr. Dala Zakaria

**Madeline Richards (36A)**

*Obesity prevention in children through home visiting programs*  
College of Medicine

Advisor: Dr. Taren Swindle

**Alberto Ocampo (37A)**

*The Prevalence of Urinary Incontinence and Associated Factors in US Children*  
College of Medicine

Advisor: Dr. Stephen Canon

**Vidya Desai (38A)**

*A Quality Improvement Initiative to Promote Diabetes Management*  
College of Pharmacy

Advisor: Dr. Jonell Hudson

**Drew Castleberry (39A)**

*Methamphetamine and the stress response in a simulated ED environment*  
College of Medicine

Advisor: Dr. Michael Wilson

**Aric Anloague (40A)**

*Multiple Myeloma-Derived MIP-1 $\alpha$  Regulates Osteocytic RANKL Expression Via Autocrine HMGB1 Signaling In Osteocytes*  
Graduate School

Advisor: Dr. Jesus Delgado-Calle

**Jessica Kelliher (41A)**

*H2AX Linker Region Mediates 53BP1 Recruitment to Chromatin*  
Graduate School

Advisor: Dr. Brian Koss

**Hannah Hunt (42A)**

*“Safety and Efficacy of UAMS Intensive Care Unit Insulin Infusion Protocols”*  
College of Pharmacy

Advisor: Dr. Allison Jenkins

**Samuel Raney (43A)**

*Effect of morbid obesity and nutrition on outcomes after treatment of hip and knee prosthetic joint infection*  
College of Medicine

Advisor: Dr. Jeffrey Stambough

**Tyler A. Kilgore (44A)**

*Retinal Lasers: A Safety Overview*  
College of Medicine

Advisor: Dr. Ahmed Sallam

**Japneet Kaur (45A)**

*Premature osteocyte senescence promotes bone destruction in mice with metastatic breast cancer*

College of Medicine

Advisor: Dr. Jesus Delgado-Calle

**(46A) Not competing**

**Jillian Hackney (47A)**

*Bone-targeted combination therapy decreases tumor progression and restores bone mass by increasing bone formation in mice with established multiple myeloma*

College of Medicine

Advisor: Dr. Jesus Delgado-Calle

**Madeleine Scott (48A)**

*Characterizing the regulation of a Yersinia pestis T6SS by the translational GTPase BipA*

Graduate School

Advisor: Dr. Roger Pechous

**Timothy Trotter (49A)**

*Does Health Literacy Affect PROMIS® Score Collection Methods in Orthopaedic Patients?*

College of Medicine

Advisor: Dr. Jeffery Stambough

**Charlotte Jeong (50A)**

*Baby Washes: Allergens and Marketing Claims*

College of Medicine

Advisor: Dr. Vivian Shi

**Grayson Glenn (51A)**

*Articulating Hip Spacers with a Constrained Liner: Complication & Retention Rates*

College of Medicine

Advisor: Dr. Jeffrey Stambough

**Nikhil Nair (52A)**

*Dermatologic Clinical Trial Advancement by Top Pharmaceutical Companies*

College of Medicine

Advisor: Dr. Vivian Shi

**Andrew Moore (53A)**

*Adolescent Sports Injuries in Northwest Arkansas*

College of Medicine

Advisor: Dr. Tyler CarlLee

**Micah Smith (54A)**

*Difference in the Emotional Impact and Coping Strategies towards Covid-19 in Young versus Older Adults Residing in South Central United States*

College of Medicine

Advisor: Dr. Gohar Azhar

**Natalie Phelan (55A)**

*Dietary Folate Intake during Pregnancy is Associated with Greater White Matter Development in the Newborn Brain*

College of Medicine

Advisor: Dr. Xiawei Ou

**Brandon Allen (56A)**

*Comparison of diagnostic adequacy in non-targeted native and transplant renal biopsy prior to and following implementation of the cortical tangential approach*

College of Medicine

Advisor: Dr. Erin Priddy

**Dinesh Bhattarai (57A)**

*Proteasome dysfunction: a potential contributor of kidney dysfunction during cold storage and transplantation*

College of Medicine

Advisor: Dr. Nirmala Parajuli

**Anna Claire Pilkington (58A)**

*Short-term ambient temperature modulation modifies the adipose tissue proteome.*

College of Medicine

Advisor: Dr. Umesh Wankhade

**Grace Jenkins (59A)**

*Time to Healing Diabetic Foot Ulcers with Vacuum Assisted Closure Compared to Standard Sterile Dressings*

College of Health Professions

Advisor: Dr. Hillary Mayberry

**Humam Shahare (60A)**

*Effect of morbid obesity and nutrition on outcomes after treatment of hip and knee prosthetic joint infection*

College of Medicine

Advisor: Dr. Jeffrey Stambough

**Kenzo Cotton (61A)**

*Effectiveness of a Subcutaneous Bupivacaine Catheter for Pain Control and Narcotic Reduction in Pediatric Spine Fusion Surgery: A Retrospective Study*

College of Medicine

Advisor: Dr. David Bumpass

**Amrita Khakurel (62A)**

*GARP complex is required for normal Golgi physiology and localization of Golgi trafficking machineries*

Graduate School

Advisor: Dr. Vladimir Lupashin

**Alexia Sebghati (63A)**

*The Consequences of a Cesarean Section on the Neonatal Gut Microbiome and Future Health Outcomes*

College of Health Professions

Advisor: Dr. Samantha Lawson

**Joseph Asante Jr. (64A)**

*Modeling the interactions of Alzheimer's amyloid  $\beta$ -peptide with p-glycoprotein*

Graduate School

Advisor: Dr. Steven W. Barger

**Davis Campbell (65A)**

*Using Artificial Intelligence to Segment Histologic Features in Donor Renal Transplant Biopsies*

College of Medicine

Advisor: Dr. Shana Coley

**Alexandra Diaz-Cruz (66A)**

*Improving Quality of Life of Adults with PCOS in a Primary Care Setting*

College of Medicine

Advisor: Dr. Leslie Stone

**John Lee (67A)**

*TIL characterization in the Context of Breast Cancer Immunotherapy*  
College of Medicine

Advisor: Dr. Behjatolah Karbassi

**Kelly Fowler (68A)**

*Equity for health delivery: Opportunity costs and benefits among Community Health Workers in Rwanda*  
College of Medicine

Advisor: Dr. Janna Schurer

**Baku Acharya (69A)**

*Targeting dual functionality of BRK kinase via BRK-directed PROTACs*  
College of Pharmacy

Advisor: Dr. Brendan Frett

**Rupak Chowdhury (70A)**

*Assessing attributes of COVID-19 mortality & associated co-morbid conditions*  
College of Health Professions

Advisor: Dr. Oleg Karaduta

**Maria Neal (71A)**

*Initial Evidence that Doxorubicin Oxidizes Ryanodine Receptors in Lymph Vessels via Superoxide Generation*  
College of Pharmacy

Advisor: Dr. Amanda Stolarz

**Kennith Swafford (72A)**

*Small Molecule Stabilization of the CARD11 G-Quadruplex*  
Graduate School

Advisor: Dr. Samantha Kendrick

**Jessica Allred (73A)**

*Evaluating Prescribing Practices for Pediatric Community Acquired Pneumonia Infections Between a Non-academic and an Academic Children's Hospital in the Inpatient Setting*  
College of Pharmacy

Advisor: Dr. Holly Maples

**Christoph Mora (74A)**

*Macrophage to Myofibroblast Transition in Diastolic Dysfunction Development*  
Graduate School

Advisor: Dr. Shengyu Mu

**Madison Lee (75A)**

*Effectiveness of Alternative Pain Management and Early Ambulation in Reducing Opioid Use in Postoperative Spine Patients*  
College of Health Professions

Advisor: Dr. Edward Williams

**Tara (Nikki) Pitts (76A)**

*Effect of Enhertu (trastuzumab deruxtecan) on safety and efficacy in treating HER2+ Cancer.*  
College of Health Professions

Advisor: Dr. Wilkerson Brittany

**Ruchira Mahashabde (77A)**

*First line Immune Checkpoint Inhibitor Treatment vs. Chemotherapy in Older Adults with Non-Small Cell Lung Cancer and Synchronous Brain Metastases*  
Graduate School

Advisor: Dr. Chenghui Li

**Madison McGraw (78A)**

*Characterization of a Novel Complement 5 Knockout Model in the Rat*  
Graduate School

Advisor: Dr. Nirmala Parajuli

**Devin Terry (79A)**

*Research Participation and COVID-19 Pandemic*  
Graduate School

Advisor: Dr. Sara Jones

**Stephanie Graves (80A)**

*Finding Emotional Intelligence in Health Literacy.*  
College of Health Professions

Advisor: Dr. Melissa Halverson

**Larkin Harris (81A)**

*Resource Utilization and Student Performance in an Introductory Medical School Anatomy Course*  
College of Medicine

Advisor: Dr. David Davies

**Aaron Sesler (82A)**

*The Correlation of Knee Anatomic Measurements from Biplanar Radiographs as Predictors of Total Knee Arthroplasty Implant Sizes*  
College of Medicine

Advisor: Dr. Benjamin Stronach

**Madison Stoudt (83A)**

*Social Media Impact on Orthopedic Medicine: Analysis of Top 10 Orthopedic Twitter Users*  
College of Medicine

Advisor: Dr. Benjamin Stronach

**Carol Morris (84A)**

*Protection against CNS Injury by disrupting the CD47/SIRPα axis*  
Graduate School

Advisor: Dr. Abdelrahman Fouda

**Kirk West (85A)**

*Characterization of Toslled-Like Kinase Recruitment to Sites of DNA Damage*  
College of Medicine

Advisor: Dr. Kevin Raney

**Skylar Davis (86A)**

*Efficacy of Aerobic Exercise in the Management of Sport-Related Concussions*  
College of Health Professions

Advisor: Dr. Amber Teigen

**Caroline Burns (87A)**

*Effect of virtual reality in the management of anxiety-related disorders*  
College of Health Professions

Advisor: Dr. Nadja Button

**MD MOHSIN ALI (88A)**

*Mitochondrial superoxide in osteoblast lineage cells causes mitochondrial dysfunction but not cellular senescence*  
Graduate School

Advisor: Dr. Maria Almeida

**Naiha Ahmad (89A)**

*Ineffective sequestration of SAMD9 is associated with global translation shutdown during myxoma virus infection*  
Graduate School

Advisor: Dr. Jia Liu

**Katherine Bronson (90A)**

*LSM14B associates with stem cell protein Musashi to activate mRNA translation*  
Graduate School

Advisor: Dr. Angus MacNicol

**Jewel Banik (91A)**

*Gene Regulatory Networks in LEPR-Null Gonadotropes*  
Graduate School

Advisor: Dr. Angus MacNicol

**Austin Jones (92A)**

*Identification of drug-drug interaction risks for synthetic cannabinoids*  
College of Medicine

Advisor: Dr. Grover Miller

**Ashley Pike (93A)**

*Validating an fMRI adaptation of the Symbol Digit Modalities Test for studying Information Processing Speed in Multiple Sclerosis*  
Graduate School

Advisor: Dr. G. Andrew James

**Katie Knott (94A)**

*Efficacy of Meds to Beds Service in an Institutional Setting*  
College of Pharmacy

Advisor: Dr. Brett Bailey

**Emily Dickerson (95A)**

*Efficacy of Testosterone Hormonal Treatment for Menopausal Symptoms in Post-Menopausal Females*  
College of Health Professions

Advisor: Dr. Gloria Richard-Davis

**Alanna Bramwell-Shittu (96A)**

*Assessment of Metformin Intolerance: A Retrospective Chart Review*  
College of Pharmacy

Advisor: Dr. Pilar Murphy

**Taylor Huggins (97A)**

*Echolalia and Language Development in Children with Autism Who Use American Sign Language as Their Primary Means of Communication*  
College of Health Professions

Advisor: Dr. Andrea "Andi" Toliver-Smith

**Olgaaurora Rodriguez (98A)**

*Impacts of POGIL-Based Activities in a Pharmaceutical Calculations Course*  
College of Pharmacy

Advisor: Dr. Martin Perry

**Manish Adhikari (99A)**

*Pathological Reprogramming of Osteocytes by Cancer Cells in Breast Cancer Bone Metastasis*  
College of Medicine

Advisor: Dr. Jesus Delgado-Calle

**Carter Pacheco (100A)**

*Survey of Thoughts and Knowledge Regarding Testosterone's Effects on Fertility in Transgender Male and Masculine Non-Binary Individuals Assigned Female at Birth*  
College of Medicine

Advisor: Dr. M. Luann Racher

**Claire Gist Bradberry (101A)**

*Demodex mites in Patients with Non-Melanoma Skin Cancer*  
College of Medicine

Advisor: Dr. Chris Schach

**Robert Brand (102A)**

*The 2020 Medicaid Expansion's Impact on a Community Clinic Serving the Marshallese Population in Northwest Arkansas*  
College of Medicine

Advisor: Dr. Hanna Jensen

**Poster Session B**  
**11:45 – 1:45**

**Alexa Pearce (1B)**

*Leg length discrepancy after hip fracture repair is associated with reduced gait speed*

College of Medicine

Advisor: Dr. Simon Mears

**Levent Ozdemir (2B)**

*Inconsistency and Ambiguity within the ICD-10 Procedure Coding System for Hip Fractures*

College of Medicine

Advisor: Dr. Jeffrey Stambough

**Kennedy Kerins (3B)**

*Sodium Intake of Children Ages 2-19 Greatly Exceeds AI Guidelines; Fast-food a Contributing Factor*

College of Health Professions

Advisor: Dr. Lesley Jones

**Isabella McPherson (4B)**

*Sugar Consumption in Children Ages 5-12: An Analysis of 2017-2018 NHANES Data*

College of Health Professions

Advisor: Dr. Courtney Fose

**Reilly Cline (5B)**

*Sodium Intake of U.S Adults Exceeds Dietary Guidelines Regardless of Socioeconomic Status*

College of Health Professions

Advisor: Dr. Lesley Jones

**Sydney Locascio (6B)**

*Increased Polyunsaturated Fatty Acid Intake is not associated with lower HbA1c levels in U.S. adults with non-insulin dependent diabetes ages 19-50*

College of Health Professions

Advisor: Dr. Lisa Jansen

**John Norys (7B)**

*Deep Vein Thrombosis causing Abdominal Wall Varicosities*

College of Medicine

Advisor: Dr. Hanna Jensen

**Hayley Sabol (8B)**

*Combination therapy based on a bone-targeted Notch inhibitor and anti-Sclerostin antibody simultaneously decreases tumor burden and rebuilds damaged bone in mice with established myeloma disease*

Graduate School

Advisor: Dr. Jesus Delgado-Calle

**Jedidiah Whitt (9B)**

*Efficacy and Satisfaction of Preoperative Telemedicine Evaluation of Pediatric Urologic Patients*

College of Medicine

Advisor: Dr. Stephen Canon

**Emma Johnson (12B)**

*Treatment of Klippel-Trenaunay Syndrome (KTS) using PIK3CA inhibitor: A Case Report and Review of the Literature Regarding KTS and Gynecologic Considerations*

College of Medicine

Advisor: Dr. Kathryn Stambough

**Erica Smith (13B)**

*Targeting Rearranged during Transfection in Cancer: A Perspective on Small-Molecule Inhibitors and Their Clinical Development*

College of Pharmacy

Advisor: Dr. Brendan Frett

**Elizabeth Sewell (14B)**

*The Auditory, Vestibular, and Cognitive Side Effects Associated with Medication Use for Psychiatric Disorders*

College of Health Professions

Advisor: Dr. Samuel Atcherson

**Reece Mitchell (15B)**

*Urine Mass Spectrometry Can Distinguish Prerenal and Intrarenal Acute Kidney Injury*

College of Medicine

Advisor: Dr. John Arthur

**Sawyer Hickey (16B)**

*Current Status of Transgender Simulation Education*

College of Medicine

Advisor: Dr. M. Luann Racher

**Bailee Cummings (17B)**

*Implementation of a Mobile Phone Intervention Method to Improve Clinical Outcomes in Patients with HIV*

College of Medicine

Advisor: Dr. Juan Carlos Rico Crescencio

**Mattison Cato (18B)**

*Examining the Feasibility of Vaginal Natural Orifice Transluminal Endoscopic Surgery (vNOTES) Hysterectomy for Transgender Male Patients*

College of Medicine

Advisor: Dr. Luann Racher

**Benjamin Quattlebaum (19B)**

*Preliminary Analysis of Post-Promotion/Post-Tenure Review in Promotion and Tenure Documents from US Pharmacy Schools*

College of Pharmacy

Advisor: Dr. Amy Franks

**Jasmin Cotoco (20B)**

*Investigation of Smoking Prevalence and Cessation in Low-Dose CT Screening Population in Pre- and Intra-COVID Eras*

College of Medicine

Advisor: Dr. Katy Marino

**Taylor Wilson (21B)**

*A Retrospective Cohort Study of Influenza Infected Multiple Myeloma Patients Comparing Clinical Outcomes Between Vaccinated and Unvaccinated*

College of Medicine

Advisor: Dr. Mary Burgess



**Shelby Shields (22B)**

*Analyzing Arkansas Hospital Community Health Needs Assessments: Strategies for Cancer Control and Prevention*

College of Public Health

Advisor: Dr. Kelsey Owsley

**Zachary McConnell (23B)**

*Systemic Inflammatory Response Syndrome and Prosthetic Joint Infection*

College of Medicine

Advisor: Dr. Benjamin Stronach

**Jacob Siebenmorgen (24B)**

*Hospital-wide adherence to post-surgical opioid prescribing guidelines*

College of Medicine

Advisor: Dr. Simon Mears

**Muhammad Hameed (25B)**

*G-tube contrast check: Transition from fluoroscopy to abdominal radiographs*

College of Medicine

Advisor: Dr. Charles James

**Obeid Shafi (26B)**

*Predicting hospital length of stay in patients with bronchiolitis using machine-learning*

College of Medicine

Advisor: Dr. Feliciano Yu

**Allen Norris (27B)**

*Social Needs of Patients Undergoing Total Joint Arthroplasty*

College of Medicine

Advisor: Dr. Jeffery Stambough

**Elizabeth Luccketta (28B)**

*Measuring the Reliability of the Braden Scale II for Pressure Injury Risk Assessment*

College of Nursing

Advisor: Dr. Natalie Capps

**Jessica Rios (29B)**

*Nurse Practitioners' Perspectives of Preceptorship During Telehealth Visits: A Qualitative Study*

College of Nursing

Advisor: Dr. Natalie Capps

**Mason McCrury (30B)**

*Activation Induced Cytidine Deaminase as a Mutagen on G-quadruplex DNA in Lymphoma*

Graduate School

Advisor: Dr. Samantha Kendrick

**Benjamin Moore (31B)**

*Sternal Fractures: Management at a Level 1 Trauma Center*

College of Medicine

Advisor: Dr. Katy Marino

**Michael Held (32B)**

*Review of Eagle Syndrome Presentation and Outcomes in a Large Surgical Case Series*

College of Medicine

Advisor: Dr. Deanne King

**Everette Martin (33B)**

*Evaluating Physician Understanding of Data Privacy and Cybersecurity in Neuromodulation Systems*

College of Medicine

Advisor: Dr. Erika Petersen

**Namarta Kapil (34B)**

*Utility of Hammersmith Infant Neurological Examination (HINE) Subscores in Predicting Cerebral Palsy*  
Graduate School

Advisor: Dr. Tara Johnson

**Andrew Mangan (35B)**

*Assessing Barriers to Cochlear Implantation*  
College of Medicine

Advisor: Dr. Robert Saadi

**James Andrews (36B)**

*Metabolism and Ontogeny of Alveolar Macrophages Contribute to Peripheral Trained Immunity and Confer Protection against Mycobacterium tuberculosis*

College of Medicine

Advisor: Dr. Lu Huang

**Collin Pilkington (37B)**

*Describing National Traumatic Brain Injury Readmission*  
College of Medicine

Advisor: Dr. Hanna Jensen

**Soumiya Pal (38B)**

*Differential Response to L-type Calcium Channel Blockers in Hypertensive Lymph Vessels*  
College of Pharmacy

Advisor: Dr. Amanda Stolarz

**Lakyn Webb (39B)**

*Evaluating Hospital-Based Violence Intervention Programs. A Review of Literature*  
College of Nursing

Advisor: Dr. Natalie Capps

**Alexa Escapita (40B)**

*Early Language Development in Children with Critical Congenital Heart Disease*  
Graduate School

Advisor: Dr. Tara Johnson

**Bobbie Jean Sandidge (41B)**

*Health Disparities and Pediatric Intentional Self-Poisonings in Arkansas*  
College of Medicine

Advisor: Dr. Erica Liebelt

**Sangam Kandel (42B)**

*Genomic Surveillance of SARS-CoV-2 using Long Range PCR primers*  
Graduate School

Advisor: Dr. David Ussery

**Kaylynn Heard (43B)**

*Transanal Drainage Tube for Anastomotic Leak Prophylaxis after Colorectal Surgery.*  
College of Nursing

Advisor: Dr. Neal Reeves

**Dana Abulez (44B)**

*The effect of age of first use and psychiatric comorbidity on positive psychostimulant treatment response*  
College of Medicine

Advisor: Dr. Corey Hayes

**Katherine Deck (45B)**

*CD8+ T cells stimulate renal sodium transporters contributing to salt-sensitive hypertension*  
Graduate School

Advisor: Dr. Shengyu Mu

**Cade Haynie (46B)**

*Caregivers Perspectives on Multidisciplinary Clinic Visits for Duchenne and Becker Muscular Dystrophy*  
College of Medicine

Advisor: Dr. Aravindhan Veerapandiyan

**Heather Schay (47B)**

*Evaluating the Implementation of NICU Bedside Rounding on Pre- and Post- Patient Length of Stay*  
College of Nursing

Advisor: Dr. Elizabeth Riley

**Emily Waller (48B)**

*Impact of Acute Shift of Healthcare Delivery in Response to the COVID-19 Pandemic on Perinatal Women with Opioid Use Disorder*

College of Medicine

Advisor: Dr. Jessica Coker

**Zaria Neal (49B)**

*Communication preferences of cardiovascular genetics information among college educated African American women*

College of Health Professions

Advisor: Dr. Erin Beaver

**Lilly Jones (50B)**

*The Effect of Antibiotic Pretreatment on Cerebrospinal Fluid Parameters in Children with Bacterial Meningitis*

College of Medicine

Advisor: Dr. Archana Balamohan

**Kacee Daniels (51B)**

*Predicting Unexpected ICU Readmissions in Trauma Surgery*

College of Medicine

Advisor: Dr. Hanna Jenson

**Noah Brown (52B)**

*Analysis of Visual Outcomes Across Varying Types of Intraocular Lenses In Patients with Aphakia and Insufficient Capsular Support*

College of Medicine

Advisor: Dr. Ahmed Sallam

**Alan Herrera Rueda (53B)**

*Synthesis of Potential PGGTase Inhibitor Precursors*

College of Pharmacy

Advisor: Dr. Brendan Frett

**Josephine Gottsponer (54B)**

*A review of iliofemoral bypasses at a single institution*

College of Medicine

Advisor: Dr. Mohammed Moursi

**Fatimah Al-Doori (55B)**

*Prediction of milk plasma ratio for New Psychoactive Substances*

College of Pharmacy

Advisor: Dr. Ryoichi Fujiwara

**Bachkhoa Nguyen (56B)**

*C2C12 Myoblast Bioenergetics in Response to the CCG-1423 Rho A Inhibitor*

College of Medicine

Advisor: Dr. Xiaomin Zhang

**Bethany Miller (57B)**

*Intermittent Fasting: Fad or Fact*

College of Health Professions

Advisor: Dr. Chance Gee

**Nicholas Russenberger (58B)**

*The Efficacy of Upper Airway Stimulation in Obstructive Sleep Apnea as an Alternative to Positive Airway Pressure Treatment.*

College of Health Professions

Advisor: Dr. Brittany Wilkerson

**Carol Bowerman (59B)**

*Effects of Music Therapy on the Neurodevelopment of Pre-term Infants in the NICU Setting*

College of Health Professions

Advisor: Dr. Lachan Seibenmorgen

**Sudip Panday (60B)**

*Salmonella pathogenicity islands: a genomic view*

Graduate School

Advisor: Dr. David Ussery

**Tara Bates (61B)**

*Telemedicine Preferences In Pediatric Urology Following the COVID-19 Pandemic: A Caregiver Survey*

College of Medicine

Advisor: Dr. Stephen Canon

**Kathryn Rhomberg (62B)**

*Postpartum Pain Course Among Women Prescribed Buprenorphine Delivered via Cesarean Section*

College of Medicine

Advisor: Dr. Jessica Coker

**Kalee Holloway (63B)**

*Ethanol Induced Cerebellar Transcriptomic Changes in a Postnatal Model of Fetal Alcohol Spectrum Disorders: Focus on Disease Onset*

Graduate School

Advisor: Dr. Paul Drew

**Wesley Adams (64B)**

*The Effect of Aural Rehabilitation on Cognitive Decline*

College of Health Professions

Advisor: Dr. Andrea "Andi" Toliver-Smith

**Brandon Hogland (65B)**

*Assessing the function of the cyclic di-GMP binding protein, PlzC, in *Borrelia turicatae**

Graduate School

Advisor: Dr. Jon Blevins

**Moriah Manchack (66B)**

*A Study of the Current Literature Regarding the Efficacy of a Bilingual Approach to Speech Language Therapy*

College of Health Professions

Advisor: Dr. Andrea "Andi" Toliver-Smith

**Lauren Crimmins-Pierce (67B)**

*Tracking Propagation of Uterine Electrical Activity Prior to Active Labor*

College of Medicine

Advisor: Dr. Hari Eswaran

**Holley Coker (68B)**

*Impact of Language Concordant Care on the Management of Type 2 Diabetes Mellitus*

College of Health Professions

Advisor: Dr. Oleg Karaduta

**Ruth Sudtelgte (69B)**

*The Effect of an Anti-Inflammatory Diet on the Quality of Life in Patients with Rheumatoid Arthritis*

College of Health Professions

Advisor: Dr. Audra Nosal

**David Crowley (70B)**

*Efficacy of Repositioning of Hospital Acquired Pressure Ulcers*

College of Health Professions

Advisor: Dr. Samantha Lawson

**Juchan Lim (71B)**

*Molecular Analysis of Pituitary Transdifferentiation in Response to Physiological Cues*

Graduate School

Advisor: Dr. Angus MacNicol

**Rami A. Shahrer (72B)**

*Myeloid HDAC3 deletion protects against ischemic retinal neurovascular injury*

College of Medicine

Advisor: Dr. Abdelrahman Fouda

**Faizan Cheema (73B)**

*Investigating Galectin-3 Zinc binding and its Role in Prostate Cancer*

College of Medicine

Advisor: Dr. Alan Diekman

**Jake Price (74B)**

*LDH and the MELD-LDH in severe acute liver injury and acute liver failure*

College of Medicine

Advisor: Dr. Mitchell McGill

**Erh Hsu (75B)**

*3D Bioprinting of Living Tissues*

College of Pharmacy

Advisor: Dr. Nukhet Aykin-Burns

**Matthew Laws (76B)**

*The effect of Systemic  $\beta$ -glucan injection on Alveolar Macrophages in the Lung*

College of Medicine

Advisor: Dr. Lu Huang



## **3 Minute Thesis Participants**

### **College of Medicine**

**Charlotte Jeong**

*Baby Washes: Allergens and Marketing Claims*

**Lilianne McKissack**

*Time to Positivity of Blood Cultures and Correlation with Clinical Outcomes in Pediatric Patients*

**Purav Chokhani**

*The Importance of SEEG Electrode Design for the Risk of Hemorrhagic Complications*

**Muhammad Hameed**

*G-tube contrast check: Transition from fluoroscopy to abdominal radiographs*

**Cade Haynie**

*Caregivers Perspectives on Multidisciplinary Clinic Visits for Duchenne and Becker Muscular Dystrophy*

**Davis Campbell**

*Using Artificial Intelligence to Reduce Organ Waste*

**MaKenzie Presley**

*The role of SR-A in Macrophage Infiltration of Mammary Tumors and Microenvironment in PyMT Mice*

**Benjamin Moore**

*Blood Thinners and Patients with Serious Injuries*

**Amrit Kannan**

*Quantitative phenotype morbidity description of SATB2-Associated Syndrome*

**Thomas Heye**

*Single Ventricle Patient Database*

**Sally Barnes**

*Remote Patient Monitoring within a routine Telemedicine Obstetric Care Model*

**Emily Goodman**

*Opioid Prescribing Behaviors Among Surgical Intensive Care Unit Attending Physicians*

**Andrew Mangan**

*Assessing Barriers to Cochlear Implantation in Arkansas*

**Addison Yee**

*COPD as a Predictor of Morbidity Following Free Tissue Reconstruction*

**Jennie Burns**

*Evaluating the Progression of Parkinson's Disease with the Heel-to-Toe Walk*

**Blake Spilker**

*Visual Outcomes in Traumatic Aphakia Corrected with Contact Lens versus Surgical Lens implantation*

**Tarendeep Thind**

*Weight-Based Dosing for Low Molecular Weight Heparin (Enoxaparin) Administration to Achieve Optimal VTE Prophylaxis in Trauma Patients*

**Brandon Allen**

*Comparison of diagnostic adequacy in non-targeted native and transplant renal biopsy prior to and following implementation of the cortical tangential approach*

**Nikhil Nair**

*Clinical Trial Advancement: Dermatologic Pursuit of Top Pharmaceutical Companies*

**Evie Cannon**

*Evaluating Anxiety, Depression, and Resilience in Adolescents and Primary Caregivers with Eosinophilic Esophagitis Living in Urban and Rural Areas*

**Andrew Baker**

*Necessity of percutaneous drainage for post-operative fluid accumulation following appendectomy in pediatric patients*

**Reece Mitchell**

*New Insights into Modeling Age-related Macular Degeneration*

**Harish Chatrathi**

*Variant CUL3 causes severe familial hyperkalemic hypertension and dysregulates multiple physiological processes*

**Hannah Coffman**

*Comparing Feedback Techniques in Facial Reconstruction using 3D Printed Models*

**Payton Sifford**

*Subcutaneous panniculitis-like T Cell Lymphoma Presenting as a Targetoid Plaque in a Pediatric Patient: A Case Report and Review of the Literature*

**Kenzo Cotton**

*Effectiveness of a Subcutaneous Bupivacaine Catheter for Pain Control and Narcotic Reduction in Pediatric Spine Fusion Surgery: A Retrospective Study*

**John "Jack" Merten**

*The use of rodent models to better characterize the relationship among epilepsy, sleep, and memory*

**Chandler Kern**

*Caregiver Burden Survey: A Tool for Assessing the Stress Burden in Caregivers of Elderly Patients*

**Jessica Sifford**

*Lymphatic Malformations, Micro-RNA, and Determination of Cell Growth*

**Patricia Ramos**

*"Efficacy of a Psychiatry-Based Simulation Event in Training Medical Students on Opioid Overdose Management"*

**Hunter Rose**

*Variations in Cost and Readmissions of Patients in the Bundled Payment for Care Improvement Bundle for Hip and Femur Fractures*

**Tyler Graham**

*The Utilization of iPads in the Administration of PHQ-9 Forms*

**Mason Rostollan**

*Caregivers' Perspective on Disclosing the Diagnosis of Autism Spectrum Disorder to their Children*

**Manasa Veluvolu**

*Policy and public communication methods among U.S. state prisons during the first year of the COVID-19 pandemic*

**Lelia Rosenkrans**

*Incidence and Demographic Analysis of Arkansas Methamphetamine Users Following an Emergency Department Visit*

**John Coleman**

*Incidence of Post-operative Fibrin Syndrome in Diabetic Eyes receiving Dexamethasone implant at time of Pars Plana Vitrectomy.*

**Joey Dean**

*Clinical and Radiographic Outcomes following Radiation for Brain Tumor Patients*

**Alexandra Otwell**

*Risks for Chronic Opioid Use in Orthopaedic Polytrauma Patients*

**Micah Bowling**

*Neoadjuvant systemic therapy prior to definitive treatment for head and neck cancers during the early days of the COVID-19 pandemic: a single institutional experience*

**Chynna Denham**

*Female Prune Belly Syndrome Outcomes: A Social Media Survey Report*

**Sara Sustich**

*Using Echocardiogram Measured Flow across a Patent Ductus Arteriosus to Predict the Severity of Pulmonary Hypertension in Neonates*

**Michael Dasso**

*Thalidomide's Potential to Slow Choroidal Neovascularization in Wet Macular Degeneration*

**Zainab Atiq**

*The Unexplored Role of Immunotherapy in Treatment of ALK-Negative Inflammatory Myofibroblastic Tumor*



**Tyler Ratliff**

*Racial Differences in Folate Metabolism SNPs and Prostate Cancer*

**Tran Aimee**

*Measuring Up the Revised PENIS Score and Proposal of the PACKAGE Checklist*

**Anna Bragg**

*Translating Cardiovascular Risk Indices Into Practice*

**Nicolas Maynard**

*Man vs Machine: Who to Trust When Your Brain is at Stake*

**Graduate School**

**Alexa Escapita**

*Language Development in Children with Critical Congenital Heart Disease*

**Namarta Kapil**

*Can Infants' Movements Help Us Diagnose Cerebral Palsy (CP) at 3 Months?*

**Haven Griffin**

*Determining the effects of cholesterol depletion on MC4R signaling and developing an in vitro model of the diabetic brain*

**Reham Sewilam**

*Targeting DNA damage tolerance in development of better therapeutics for Glioblastoma Multiforme*

**Ruchira Mahashabde**

*Immune Checkpoint Inhibitor Use in Older Adults with Non-Small Cell Lung Cancer and Brain Metastasis*

**Gretchen Holtgreffe**

*From Phenotype to Genotype: What a Mutant Mouse can Tell us About Mesenchymal Development*

**Naiha Ahmad**

*Understanding function of SAMD9 protein using myxoma virus as a tool.*

**Katherine Deck**

*Impact of CD8+ T cells within the Kidney during Salt-Sensitive Hypertension*

**Zijun Zhang**

*Investigating the role of CST6 in Multiple Myeloma*

**Carol Morris**

*Protection Against CNS injury by disrupting the CD47/SIRPa Axis*

**Clara Stiefel**

*The Life-Changing Magic of Tidying Up: Cellular-Style*

**Susie Brown**

*DNA secondary structures found within lymphoma-associated oncogene promoter*

**Christoph Mora**

*Macrophage to Myofibroblast Transition in Diastolic Dysfunction Development*

**Ashley Pike**

*Structural and Functional MRI Predictors of Cognitive Dysfunction in Multiple Sclerosis*

**Soumiya Pal**

*High Blood Pressure: An Added Risk for Lymphedema?*

**College of Public Health**

**Veluvolu Manasa**

*Impact of COVID-19 pandemic response on cancelled elective surgical procedures*

**Northwest Arkansas**

**Patricia Ramos**

*Efficacy of a Psychiatry-Based Simulation Event in Training Medical Students on Opioid Overdose Management*

**Olivia Brown**

*Salt Applied as a Local Treatment for Granulation Tissue*

**Gunner Gilbert**

*Pediatric Upper Extremity Injury Severity in Relation to Type of All-Terrain Vehicle*



## **3 Minute Thesis Finalists**

**1:30 – 2:30**

### **College of Medicine**

#### **Andrew Mangan**

*Assessing Barriers to Cochlear Implantation in Arkansas*

Mentors: Drs. John Dornhoffer and Robert Saadi

#### **Evie Cannon**

*Evaluating Anxiety, Depression, and Resilience in Adolescents and Primary Caregivers with Eosinophilic Esophagitis Living in Urban and Rural Areas*

Mentor: Dr. Robert Pesek

#### **Brandon Allen**

*Comparison of diagnostic adequacy in non-targeted native and transplant renal biopsy prior to and following implementation of the cortical tangential approach*

Mentor: Dr. Erin Priddy

#### **Zainab Atiq**

*The Unexplored Role of Immunotherapy in Treatment of ALK-Negative Inflammatory Myofibroblastic Tumor*

Mentor: Dr. Omar Atiq

#### **Tran Aimee**

*Measuring Up the Revised PENIS Score and Proposal of the PACKAGE Checklist*

Mentors: Dr. Bruno Machado

#### **Davis Campbell**

*Using Artificial Intelligence to Reduce Organ Waste*

Mentor: Dr. Shana Coley

#### **Benjamin Moore**

*Blood Thinners and Patients with Serious Injuries*

Mentors: Drs. Hanna K Jensen and Kyle Kalkwarf

## 3 Minute Thesis Finalists

### Northwest Arkansas

**Patricia Ramos**

*Efficacy of a Psychiatry-Based Simulation Event in Training Medical Students on Opioid Overdose Management*

Mentors: Drs. Sharon Reece and Hanna K Jensen

**Olivia Brown**

*Salt Applied as a Local Treatment for Granulation Tissue*

Mentors: Drs. David Wigginton and Hanna K Jensen

**Gunner Gilbert**

*Pediatric Upper Extremity Injury Severity in Relation to Type of All-Terrain Vehicle*

Mentors: Drs. Sean Morell and Mitchell Solano

### College of Public Health

**Veluvolu Manasa**

*Impact of COVID-19 pandemic response on cancelled elective surgical procedures*

Mentors: Drs. Clare Brown and Hanna K Jensen

### Graduate School

**Carol Morris**

*Protection Against CNS injury by disrupting the CD47/SIRP $\alpha$  Axis*

Mentor: Dr. Abdelrahman Fouda

**Soumiya Pal**

*High Blood Pressure: An Added Risk for Lymphedema?*

Mentors: Dr. Amanda Stolarz

**Ruchira Mahashabde**

*Immune Checkpoint Inhibitor Use in Older Adults with Non-Small Cell Lung Cancer and Brain Metastasis*

Mentor: Dr. Chenghui Li