28th Annual Graduate Research Symposium
United in Discovery: The New Face of Research

2013 Program
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## Awards Luncheon (Ballroom) (12:30 PM – 2:00 PM)
Oral Presentations Session I: 9:00AM – 10:15AM

**Rising Researchers (KSC Room 303)**
Judges: Deb Lamm, Kate Klonowski

9:00AM: The Mystery of The Double Sided-Portrait of Sir Christopher Hatton
Lorianna Clarke
Department Of Art, Kent State University

09:15AM: An Investigation on Assets: Specifically The Five Cs and Positive Youth Development
Nicolle Estevez
Department Of Psychology, Kent State University

**Biology and Social Problems (KSC Room 309)**
Judges: Lynette Phillips and Gail Fraizer

9:00AM: Public Health Workforce Provisions in the Patient Protection and Affordable Care Act (ACA)
Eric Hutzell, Neda Kasim
Department Of Health Policy & Management, Kent State University

09:15AM: Influenza Vaccination Rates in Adults with Chronic Obstructive Pulmonary Disease: the Impact of a Diagnostic Breathing Test
Dana Mowls, Vinay Cheruvu, Melissa Zullo
College of Public Health, Kent State University

09:30AM: The Effects of Initial Hip Abduction and External Rotation Strength and Neuromuscular Fatigue of the Gluteus Medius on the Star Excursion Balance Test in Male and Female Healthy Subjects
Meredith Decker
College of Education, Health, and Human Services, Kent State University

09:45AM: Online Social Support Behaviors of Veterans with PTSD
McKenzie Pittman and Andrea Meluch
Department of Communication Studies, Kent State University

**Space and Place Part I (KSC Room 310A)**
Judges: Jacqueline Mills and Scott Sheridan

09:00AM: Mountain City Rising: Planning Centrality in Chongqing, China
Mihran Kazandjian
Department of Geography, Kent State University

09:15AM: A correlation of western Arctic Ocean sedimentation and atmospheric temperature from northern Alaska during the last 2,000 years
Jeffrey Harrison
Department of Geology, Kent State University

09:30AM: Blight around the urban community gardens in the Kinsman Neighborhood of Cleveland, Ohio
Jackie Luke
Department of Geography, Kent State University

09:45AM: Pets as More Than People, An Examination of Human Inequality
Brandon Luke
School Of Geography, Kent State University

10:00AM: Produced Water Scarcity in Lima, Peru: Prioritization of Green Space over Barriada Neighborhoods
Rachel Will
School Of Geography, Kent State University
Health and Wellness Part I (KSC Room 310B)
Judges: Jighen Yang and Jeffery Huston

9:00AM: Identifying the best bisymmetric pain measurements to detect the presence of a chronic pain condition among women
Matthew Reichenbach
College of Public Health, Kent State University

Lauren Drinkard, Vinay Cheruvu
College of Public Health, Kent State University

9:30 PM: Risk-Prone Throwing Activities and Reported Arm Pain and Fatigue in Youth Baseball Pitchers
Yiying Liu
College of Public Health, Kent State University

9:45PM: An investigation into the relationship among television consumption, desensitization, and empathy.
Lindsay Hahn
Department of Communication Studies, Kent State University

10:00AM: Social Media as a Means of Promoting Peer-Based Learning in Design Education
Adina Feigenbaum
College of Visual Communication Design, Kent State University

Geography and Geology Part I (KSC Room 313)
Judges: Sarah Smiley and David Kaplan

9:00AM: Utilizing spatial video data collection in a post-disaster environment: The Joplin Tornado of May 22nd 2011
Adam Cinderich
Department Of Geography, Kent State University

9:15AM: Hypothermia Information in the United States: An Overview
Jeremy Spencer
Department Of Geography, Kent State University

9:30AM: Media and Peacekeeping in Haiti and the Ivory Coast
Cadey Korson
Department Of Geography, Kent State University

09:45AM: Problem of Poverty, or poverty of Problem? Understanding the concept of poverty
Jaerin Chung
Department Of Geography, Kent State University

10:00AM: Threats to International Students
Steven Walters
College of Education, Health, and Human Services, Kent State University
Exercise Physiology and Biomedical Sciences Part I (KSC Room 314)
Judges: Scott Grey and Lisa Chinn

9:00AM: Initial observations of PCL Sharpey’s Fiber insertion depth in four species of Primate
Aidan Ruth
College of Biomedical Science, Kent State University

9:15AM: The Effects of Recombinant Osteoactivin on Signaling Pathways in Osteoblasts
Gregory Sondag
College of Biomedical Science, Kent State University

9:30AM: Voltage-gated Potassium Channel Currents of Binaural Hearing Neurons in Avian Sound Localization Circuit
William Hamlet
College of Biomedical Science, Kent State University

9:45AM: OA-D Peptide Enhances Bone Growth Hilary Stinnett, Fouad M. Moussa, Joseph Miladore, Kimberly Novak, Samir M. Abdelmagid, Faye F. Safadi Department of Anatomy and Neurobiology, Northeast Ohio Medical University
Hilary Stinnett
College of Biomedical Science, Kent State University

10:00AM: FXR, a Novel Receptor in Bone Cell Differentiation and Function
Fouad Moussa
College of Biomedical Science, Kent State University

Political Science (KSC Room 315)
Judges: Richard E. Adams and Susan Roxburgh

9:00AM: Respondents' Lack of Knowledge or Loyal Cue-Taking Tendencies?: Revisiting the Homer Gets a Tax Cut Debate.
Kristen Traynor
Department Of Political Science, Kent State University

9:15AM: Where do the Gender Differences in Legislative Effectiveness Begin? An Examination of Committee Request Success and Legislative Effort in the 93rd – 103rd Congresses
Lisa Hager
Department Of Political Science, Kent State University

9:30AM: An evaluation of civil society projects in post-conflict societies
Alireza Raisi
Department Of Political Science, Kent State University

9:45AM: Explaining Democracy in the Former Soviet Republics: Is there a resource curse?
Yeo Jung Yoon
Department Of Political Science, Kent State University

10:00AM: The Influence of the Human Rights Regime on U.S. Foreign Aid Appropriations
Jessie Rumsey
Department Of Political Science, Kent State University

English (KSC Room 316)
Judges: Melissa Spohn and Rosemarie Bank

9:00AM: "I seek an image, not a book": Jack B. Yeats Visualizing Irish Identity
Heather Brown
Department Of English, Kent State University

9:15AM: In Dialogue to Celebrate Ancestral Voices from both sides of the Atlantic: Chinua Achebe and James Baldwin
Meltem Oztan
Department Of English, Kent State University

9:30AM: Material Conditions for Women Writers and Women’s Literacy: Virginia Woolf's Perspective-Then and Now
Shazia Nasir
Department Of English, Kent State University

9:45AM: "Reading on the Edges: Paratextual Justification in Erskine Caldwell's God's Little Acre"
Ross Tangedal
Department Of English, Kent State University

10:00AM: The Nature of Women: the evolution of gender expectations in cultural and literary texts
Colleen Thorndike
Department Of English, Kent State University
Economics and Marketing (KSC Room 317)
Judges: Marilyn A. Norconk and Catherine Smith

9:00AM: Cards, Creatures and Almost Anything: A Study of Children’s Trading
Marie Yeh
Department Of Marketing and Entrepreneurship, Kent State University

9:15 AM: Management of a Multinational Salesforce: A Transaction Cost Examination of the Sales Network
Rebecca Dingus

Paul Mills
Department Of Marketing and Entrepreneurship, Kent State University

Hillary Mellema
Department Of Marketing and Entrepreneurship, Kent State University

10:00 AM: The Impact of Person-Charity Congruence on Donation Behavior
Hua Meng
Department Of Marketing and Entrepreneurship, Kent State University

Oral Presentations Session II: 11:00AM – 12:15PM

Identity and Behavior (KSC Room 303)
Judges: Susan Roxburgh and Fashaad Crawford

11:00AM: Religious vs. Non-religious: The Effect of a Counter-Normative Identity on Salience and Prominence
Fritz Yarrison
Department of Sociology, Kent State University

Brooke Long
Department of Sociology, Kent State University

11:30AM: Lifting the Veil: Literary Evidence for Interactions between Grecian Mystery Traditions
Shellie Smith
Department of Liberal Studies, Kent State University

11:45AM: James Turrell’s Ganzfeld Pieces: Heterotopian Palettes of the Fourth Dimension
Heather Haden
Department of Art History, Kent State University

12:00PM: Ranging Patterns and Habitat Use of Saguinus midas in Berg en Dal, Suriname
Gina Cherundolo
Department of Anthropology, Kent State University
Education (KSC Room 309)
Judges: James Bracken and Mary Hricko

11:00AM: Teacher Causal Attributions: A Critical Implementation Factor in Intervention Provision for Students who Exhibit Problem Behavior
Andrea Simms
Department Of Lifespan, Development and Educational Sciences, Kent State University

11:15AM: A Study of Relative Effectiveness of Online Visual Instructions by Combined Analysis of Brain Activity, Spatial Intelligence, and Learning Outcomes
Hyangsook Lee
Department Of Lifespan, Development and Educational Sciences, Kent State University

11:30AM: The Influence of Social Media on International Students’ Academic and Psychological Well-Being
Neete Saha, Aryn Karpinski
College of Education, Health and Human Services, Kent State University

11:45AM: Preservice Special Education Teachers’ Views of Inquiry in Science: Issues and Hopes
Rajlakshmi Ghosh
Department Of Teaching, Learning and Curriculum Studies, Kent State University

12:00PM: Cross-cultural perceptions of secondary school experience through interscholastic journalistic inquiry
Kate Klonowski
Department Of Cultural Foundations, Kent State University

Space and Place Part II (KSC Room 310A)
Judges: Melissa Spohn and Marilyn A. Norconk

11:00AM: Food Insecurity on Campus
Natalie Fox, Valerie Reed, Caitlin Carroll
Department of Foundations, Leadership & Administration, Kent State University

11:15AM: Design Education for Uganda Secondary Schools
Penina Acayo
College Of Visual Communication Design, Kent State University

11:30AM: The butler didn’t do it! The continued influence of implied versus directly stated misinformation.
Patrick Rich
Department of Psychology, Kent State University

11:45AM: The Room of Relief
Veronica Ceci
Department of Printmaking, Kent State University

12:00PM: Economic Evaluation of a Land Bank Program in Canton Ohio
Carissa Bowlin
Department Of Health Policy & Management, Kent State University
Health and Wellness Part II (KSC Room 310B)
Judges: Deric Kenne and Gail Bromley

11:00AM: THE PILOT PROJECT "PERCEPTION OF THAILAND YOUNG PEOPLE TOWARDS INTENTION OF VOLUNTARY HIV COUNSELING AND TESTING"
Pimpanitta Jittapirom
College of Nursing, Kent State University

11:15AM: The Heart iRx Study: Implications for Future Studies of Adherence Behavior in Older Adults with Heart Failure
Carly Goldstein, Emily Gathright, Joel Hughes
Department Psychology, Kent State University

11:30AM: A Focus Group Analysis of Global Hand Hygiene Practices and Perceptions
Diana Kingsbury, Lorriane Odhiambo, Julie Schaefer, Sunita Shakya
College of Public Health, Kent State University

11:45AM: Protein 14-3-3 eta (YWHAH) is essential for normal meiotic spindle formation during mouse oocyte maturation in vitro
Santanu De, Douglas Kline
Department of Biological Sciences, Kent State University

12:00PM: Delayed Bone Development in a Preeclampsia Mouse Model
Suzanne Lababidi
Department of Biology, Kent State University

Geography and Geology Part II (KSC Room 313)
Judges: Lynette Phillips and Scott Grey

11:00AM: Communicating School Emergency Plans with the Community Using Resilient Communication
Jennifer Burrell
Department Of Geography, Kent State University

11:15AM: Climatic controls of regional Arctic sea ice extent since the 1950s
Thomas Ballinger
Department Of Geography, Kent State University

11:30AM Characterizing Slope Stability of Colluvial Soils in Ohio Using LiDAR Data
Matthew Waugh
Department Of Geology, Kent State University

11:45AM: Circulation Pattern and Weather Type Associations with the Air Quality Index in Cleveland, Ohio
Cameron Lee
Department Of Geography, Kent State University

Exercise Physiology and Biomedical Sciences Part II (KSC Room 314)
Judges: Gail Fraizer and Lisa Chinn

11:00AM: THE EFFECT OF PEER INFLUENCE ON EXERCISE INTENSITY AND ENJOYMENT DURING OUTDOOR RUNNING IN COLLEGIATE DISTANCE RUNNERS
Andrew Carnes
College of Exercise Physiology, Kent State University

11:15AM: Single Leg Cycling: Implications for Rehabilitation
Keith Burns
College of Exercise Physiology, Kent State University

11:30AM: Single Leg Cycling: Implications for Rehabilitation
Keith Burns
College of Exercise Physiology, Kent State University

11:45AM: ANURAN EGG MASS SURVIVAL IN LAB SETTINGS WHILE EXPOSED TO INVASIVE PLANT EXTRACTS
Lisa Regula-Meyer
Department of Biological Sciences, Kent State University

12:00PM: Finite element studies of the chirality and shape transitions in twisted nematic elastomers
Vianney Gimenez-Pinto
College of Biochemistry & Chemistry, Kent State University
Science and Nursing (KSC Room 315)
Judges: Gail Bromley and Melissa Zullo

11:00AM: Describing and Evaluating the Feasibility Assessment Process for Local Health Department Consolidations
Aimee Budnik, Ken Slenkovich
College of Public Health, SBS Kent State University

11:15AM: The effectiveness of Problem Based Learning on undergraduate nursing students.
Homood Alharbi
College of Nursing, Kent State University

11:30AM: Induced Quadruplex to downregulate eIF-4E expression: A novel approach to cancer therapy
Debmalya Bhattacharyya
College of Biochemistry & Chemistry, Kent State University

11:45AM: Sensitivity of Patient Wait Times with Human and Equipment Resources: A Case Study of the Labor and Delivery Department of Akron General with the use of Computer Simulation
Candice Vander Weerdt
College of Management & Information Systems, Kent State University

12:00PM: Inhibitory Kinesio® Tape Application to the Hamstring Muscle Group: An Investigation of Active Range of Motion and Perceived Stiffness Over Time
Rachael German
College of Education, Health, and Human Services, Kent State University

Learning and Logistics (KSC Room 316)
Judges: Jay Jahangiri and J. Mark Pike

11:00AM: Computer-Assisted Language Learning (CALL) in Chinese EFL Context: QQ Application in L2 Reading Classroom
Yang Gao
College of Teaching, Learning and Curriculum Studies, Kent State University

11:15AM: Peer, Familial and Relationship Conflicts as Risk Factors for Suicidal Behaviors in Youth Presenting at a Psychiatric Intake Response Center
Krystel Tossone
College of Psychology, Kent State University

11:30AM: On the reverse isoperimetric inequality for some measures
Galyna Livshyts
College of Mathematics, Kent State University

11:45PM: Refrigerated Cargo Unloading Queue Optimization in a Mixed Cargo Warehouse Environment
Karoly Bozan
College of Management & Information Systems, Kent State University

Information and Empowerment (KSC Room 317)
Judges: Kate McAnulty and Catherine Smith

11:00AM: Social networking services’ indirect effect on social capital: generalized trust and political efficacy
James McQuiston
Department of Political Science, Kent State University

11:15AM: "Living by the Sword": Insights from the Kingdom of God
Oindrila Roy
Department of Political Science, Kent State University

Mathew Brundage
Department of History, Kent State University

11:45AM: THE EFFECT OF GOVERNMENT BAILOUTS ON DEFAULT RISK AND CHARTER VALUES IN BANKING
Natalya Schenck
Undergraduate Poster Presentations
Judges: Mitch Sumner and Jeremy Spencer

Poster 1 - G-Quadruplex-Mediated Regulation of Tyrosine Hydroxylase Gene Expression
Matthew Thompson
Department of Chemistry and Biochemistry, Kent State University

Poster 2 - If you designate it – will they bike? Bicycle Suitability and Assessment Tools for Active Transportation Modes
Spencer Baker, Charles Frederick, Colin Thomas
Department of Geography, Kent State University

Poster 3 - Avoidance Symptoms of PTSD Mediate the Relationship Between Trauma History and Quality of Life
David Strasshofer
Department of Psychology, Kent State University

Poster 4 - Running Performance in Police Academy Cadets Predicts Executive Functioning
Morgan Shields
Department of Psychology, Kent State University

Master’s Poster Presentations
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Poster 5 - Expression and Localization of Osteoactivin in Alveolar Bone Regeneration in Post-Extraction Healing Sockets in Normal and Diabetic Rat Model Rulla Aswad, Afif Sanyurah, Lana El-Shaar, Hugh Devlin, Fayez F. Safadi Kent State: Department of Biology; Temple University: Department of Anatomy and Cell Biology, NEOMED
Afif Sanyurah, Lana El-Shaar
Department of Anatomy and Neurobiology, Kent State University

Poster 6 – Pediatric Syndromic Surveillance of Day Care Illnesses
Aieshia Brooks
Department of Epidemiology & Biostatistics, Kent State University

Poster 7 – Systematic Review of Total Joint Replacement Classes Effect on Patient Outcomes
Rachelle Schneiter, Emily Fisher, Rebecca Barecca
College of Nursing, Kent State University

Monerah Almahmoud

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Joseph Lynch III, Tyler Vanderhoof

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Chi Huang
Department of Biomedical Science, Kent State University

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Shawn Kerns
Department of Printmaking, Kent State University

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Megan Armbuster
Department of Speech Language Pathology, Kent State University

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Dana Mowls, Melissa Zullo, Vinay Cheruvu
Department of Epidemiology & Biostatistics, Kent State University

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Mitch Sumner
Department of Anthropology, Kent State University

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Amy Dupper
Department of Anthropology, Kent State University

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Wendy Sarver
College of Nursing, Kent State University

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Haiwa Wu
Department of Biological Sciences, Kent State University

Poster 19 – Pregnant and Using: An Exploratory Qualitative Analysis of Prescription Opioid Abuse During Pregnancy
Allison Thomas, Amy Beck
Department of Health Policy & Management, Kent State University

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Kely Suredam
Department of Art History, Kent State University

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Sara Hoffhaus
Department of Anthropology, Kent State University

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Laura Fong
Department of JMC, Kent State University

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Mary L. Tuck
Department of Ethnomusicology, Kent State University

Poster 24 – What Music Tells Us About Ourselves and Our Cultural Experience
Madara Hetti Arachchilage, Porsha Frazier, Helen Piontkivska
Department of Biological Sciences, Kent State University

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Poster 25 – Efficiencies of identifying interacting genomic regions using evolutionary rate co-variation method using different number of sequences
Nathan Beals
Department of Chemistry and Biochemistry, Kent State University

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Nathan Beals
Department of Chemistry and Biochemistry, Kent State University

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Jennifer Remus, Destiny Jamison  
Department of Biological Sciences, Kent State University  

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Steven Tamborski  
Department of Biological Sciences, Kent State University  

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DeShawn Johnson  
Department of Biological Sciences, Kent State University  

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Adrienne Hopson  
Department of Biological Sciences, Kent State University  

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Prithviraj Nandigami  
Department of Physics, Kent State University  

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Summer Drake  
Department of Biological Sciences, Kent State University  

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Shuo Li  
Department of Biochemistry & Chemistry, Kent State University  

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Homood Alharbi, RN, MSN, PhD Nursing Student, Carol Sedlak, PhD, RN, CNS, ONC, CNE, FAAN, Peggy Doheny, PhD, RN, CNS, ONC, CNE,  
Barbara Yoost, MSN, RN, CNS, CNE, ANEF  
College of Nursing, Kent State University  

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Andrea Szell, Vanessa Marshall, Aieshia Brooks  
Department of Geography, Kent State University  

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Munshi Rahman  

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Chris McCracken  
Department of English, Kent State University  

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Uma Krishnan  
Department of English, Kent State University  

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Jessica Heffner  
Department of English, Kent State University  

**Poster 40 – Explaining Science Policy Adoption by a Unified Model of Innovation**  
Alireza Raisi  
Department of Political Science, Kent State University  

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Talea Drummer  
Department of Higher Education Administration, Kent State University  

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Shelley Blundell  
Library and Information Science, Kent State University  

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Jessica Burke
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Bryce Hruska
Department of Psychology, Kent State University

Poster 45 - Disease-related collaboration and emotional well-being among couples coping with type 2 diabetes
Rachel Hemphill
Department of Psychology, Kent State University

Poster 46 - Substance use Moderates the Effects of PTSD and Depression on Suicidality among Minority Lesbian, Gay, and Bisexual Adolescents and Young Adults
Brian Smith
Department of Psychology, Kent State University

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Maria Pacella, Bryce Hruska, Douglas Delahanty
Department of Psychology, Kent State University

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Patrick Cullen, Brooke Dulk, Samantha Ortiz
Department of Psychology, Kent State University

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Michael Alosco
Department of Psychology, Kent State University

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Brian Don
Department of Psychology, Kent State University

Poster 51- Medication Alarms for Medication Reminding in Heart Failure: Overdose or Snooze?
Emily Gathright, Carly Goldstein
Department of Psychology, Kent State University

Poster 52 - Paradoxical enhancement of fear expression and extinction deficits in mice resilient to social defeat
Jeremy Meduri, Jeffrey DaMert
Department of Psychology, Kent State University

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Julie Schaefer, Ginger Yang
Department of Behavioral Science, Kent State University

Poster 54 - Feasibility of Implementing a Pediatric Emergency Department Based Head Injury Prevention Program
Lorraine Odhiambo, Jingzhen Yang
Department of Epidemiology & Biostatistics, Kent State University

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Suparna Navale
Department of Epidemiology & Biostatistics, Kent State University

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Ashley Tillison
Department of Epidemiology & Biostatistics, Kent State University

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Vanessa Marshall, Eric Jefferis
Department of Prevention Science, Kent State University

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Madonna Igah
Department of Prevention Science, Kent State University

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Laura Schuch, Vanessa Marshall, Lorraine Odhiambo
Department of Epidemiology & Biostatistics, Kent State University
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Neda Kasim, Michael Model
Department of Epidemiology & Biostatistics, Kent State University

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Brandon Pollock
Department of Exercise Physiology, Kent State University

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Megan Williamson
Department of Exercise Physiology, Kent State University

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Kylene Peroutky
Department of Exercise Physiology, Kent State University

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Kristina Corella
Department of Biomedical Science, Kent State University

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Monica Burgett
Department of Biomedical Science, Kent State University

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Pritam Sinha Roy
Department of Biological Sciences, Kent State University

Poster 67 - By Inhibiting NHEJ DNA Repair, ETS Gene Fusion Proteins Enhance PARP Inhibitor-mediated Radiosensitization
Payel Chatterjee
Department of Biomedical Science, Kent State University

Poster 68 - Perineuronal Nets on GABAergic Cells in the Inferior Colliculus that Project to the Medial Geniculate Body
Nichole Foster
Department of Biomedical Science, Kent State University

Poster 69 - The role of ATF3 in arsenic-induced GADD45α expression
Qiwen Shi
Department of Biomedical Science, Kent State University

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Varun Kumar, Yi-Chinn Weng, Wen-Hai Chou
Department of Biomedical Science, Kent State University

Poster 71 - Role of PKCe in Hypoxia Induced Neurodegeneration
Varun Kumar, Yi-Chinn Weng, Wen-Hai Chou
Department of Biomedical Science, Kent State University

Poster 72 - Group II mGluRs Induce LTD of GABAergic Transmission Without Modulating Glutamatergic Transmission in Cochlear Nucleus Neurons
Rebecca Curry
Department of Biomedical Science, Kent State University

Poster 73 - Group II mGluRs Induce LTD of GABAergic Transmission Without Modulating Glutamatergic Transmission in Cochlear Nucleus Neurons
Rebecca Curry
Department of Biomedical Science, Kent State University

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Guona Wang, Yi-Chinn Weng, Xiqian Han
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