Emerging Leaders in Nutrition Science
Poster Competition

Recognizing the highest quality research presented by students and young investigators at ASN’s Scientific Sessions and Annual Meeting at Experimental Biology 2017

Organized by ASN’s Research Interest Sections and Councils

Thank you to those that were able to attend the event on Saturday, April 22, 2017 from 5:00 PM to 7:00 PM at the Hall F Swing Space of the McCormick Place Convention Center in Chicago, IL.

The following individuals have been announced as the winners of the competition.

Please join us in congratulating them!

Number and type of award (e.g., first/second/third place, grand prize winners) varied by each participating ASN Research Interest Section (RIS) and Council.
**Aging and Chronic Disease RIS**

**Graduate Student – First Place:**

9. Lauren O'Connor, Purdue University. “Daily Red Meat Intake does not Affect Improvements in Cardiovascular Disease Risk Factors Induced by Consuming the USDA’s Healthy Mediterranean-Style Eating Pattern.”

**Graduate Student – Second Place:**

10. Shirin Pourafshar, Florida State University. “Genistein in Combination with Fructooligosaccharides Prevents Bone Loss in Ovariectomized Rats.”

**Graduate Student – Third Place:**


**Graduate Student – Fourth Place:**

15. Marta Zamroziewicz, University of Illinois Urbana-Champaign. “Prefrontal Cortex Structure Mediates the Relationship between Plasma Phospholipid Stearidonic Acid and Fluid Intelligence in Healthy, Older Adults.”

**Postdoctoral Fellow – First Place:**


**Postdoctoral Fellow – Second Place:**

5. Gregory Guthrie, USDA/ARS Children’s Nutrition Research Center, Baylor College of Medicine. “Phytosterols Have Limited Direct Effect on Hepatocyte Transporter Expression but Synergize with Endotoxin to Enhance Kupffer Cell Inflammatory Response.”

**Carotenoid and Retinoid Interactive Group (CARIG) RIS**

**First Place:**


**Second Place:**


**Third Place:**

32. Rachel Chiaverelli, Tufts University. “6-cryptoxanthin protection against cigarette smoke-induced inflammatory responses in the lung is due to the action of its own molecule.”

**Fourth Place:**

34. Sookyoung Jeon, University of Illinois at Urbana-Champaign. “A comparison of lutein bioaccumulation in infant rhesus macaques fed breast milk, carotenoid-supplemented formula, or unsupplemented formula.”
Fifth Place:

Community and Public Health Nutrition RIS

First Place:

28. Myat (Crystal) Pan Hmone, University of Sydney. “Impact of SMS Text Messages to Improve Exclusive Breastfeeding: A Randomized Controlled Trial in Myanmar.”

Second Place:
17. Lauren Blacker, Cornell University. “Household food insecurity and gender inequity is associated with high prevalence of maternal depression amongst female farmers with young children in rural Tanzania.”

Diet and Cancer RIS

First Place:
46. Sumira Phatak, Utah State University. “Ancestral and multi-generational consumption of the total Western diet in mice promotes colitis-associated colorectal cancer in third-generation offspring.”

Second Place:
41. Candice Mazewski, University of Illinois at Urbana-Champaign. “Comparison of the inhibitory potential of anthocyanin-rich plant extracts on colon cancer cell proliferation and their mechanism of action in vitro.”

Third Place:
47. Blaine Sherman, Texas State University. “The Efficacy of Silibinin to Reduce the Impact of Obesity on Invasive Prostate Cancer.”

Fourth Place:
50. Zhe Yin, Michigan State University. “Oxylipids derived from arachidonic and dihomo-gamma-linolenic acids are associated with colon polyps in adult males.”

Fifth Place:
45. Yong-Moon Park, National Institute of Environmental Health Sciences. “High dietary acid load is associated with risk of breast cancer: findings from the Sister Study.”

Dietary Bioactive Components RIS

Graduate Student – First Place:
65. Patrick Solverson, USDA. “Seven Day Blackberry Feeding Lowers the Respiratory Quotient in Males And Improves Insulin Sensitivity.”
Graduate Student – Second Place:

Graduate Student – Third Place:
53. Marianne Collard, Wake Forest School of Medicine. “Muscadine Grape Extract Inhibits Proliferation and Migration of Triple Negative Breast Cancer Cells in Association with a Reduction in TWIST.”

62. Stephanie Mondloch, University of Wisconsin-Madison. “Small servings of vegetables or a cruciferous supplement do not affect urinary estrogen metabolites in premenopausal women.”

67. Lei Wang, University of Minnesota Twin Cities. “Identification of activation of tryptophan-NAD+ pathway as a central metabolic response to chemical stress from feeding thermally-oxidized soybean oil in mouse through metabolomics-based biochemical analysis.”

Postdoctoral Fellow – First Place:
61. Sonia Manca, University of Nebraska-Lincoln. “The Bioavailability and Distribution of Bovine Milk Exosomes is Distinct from that of their Cargos in Mice.”

Postdoctoral Fellow – Second Place:
68. Xian Wu, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University. “Oral administration of curcumin and salsalate attenuates high fat diet-induced up-regulation of pro-inflammatory colonic cytokines and suppresses Akt/NFκB signaling in azoxymethane-treated mice.”

Undergraduate Student – First Place:

Undergraduate Student – Second Place:
57. Justin Guice, LSU AgCenter. “Beneficial Effects of Fermentation of Whole Grains (WG) and Whole Grain Resistant Starch (RS) in Lean Zucker Diabetic Fatty (ZDF) Rats.”

Energy and Macronutrient Metabolism RIS

First Place:
82. Jessica Hill, University of Memphis. “Glucocorticoids In Combination With a High Fat Diet Increase Acute Phase Proteins and Alters PUFA metabolism in Visceral Adipose Tissue.”

Second Place:
90. Karen Switkowski, Harvard Medical School and Harvard Pilgrim Health Care Institute. “Protein Intake in Early Childhood is Not Associated with Adiposity, Height, or IGF-I in Mid-Childhood among Well-Nourished Children in a U.S. Cohort.”

Third Place:  
74. Jahmal Brooks, University of Toronto. “Variable Intensity Exercise Increases Protein Requirements in Active Male and Female Adolescents as Determined by the Indicator Amino Acid Oxidation (IAAO) Technique.”

92. Christian Wright, Purdue University. “Effects of Dietary Protein Source and Amount on Bone Quantity and Body Composition following a High-Protein Weight-Loss Diet in a Rat Model of Postmenopausal Obesity.”

First Place:  
99. Heather Paul, University of Calgary. “Longitudinal 1H NMR Metabolomics Analysis Identifies Differences in Maternal Response to Pregnancy and Lactation between Lean and Diet-Induced Obese Sprague-Dawley Rats.”

Second Place:  
95. Ronique Beckford, Univ. of Tennessee. “Mechanisms for Programming Reduced Adiposity through Maternal Dietary Fish Oil.”


97. Lauren Fowler, University of Alabama at Birmingham. “Sex-Specific Differences in the Development of Diet-Induced Obesity in a Zebrafish Model.”

Global Nutrition Council

First Place:  
121. Shruthi Cyriac, Emory University. “Understanding Stakeholder Networks for Nutrition Policy: Lessons from a Network Analysis Study in India.”

Second Place:  


Maternal, Perinatal and Pediatric RIS


104. Carrie-Ellen Briere, Connecticut Children's Medical Center. “Stem-Like Cells in Breastmilk for Hospitalized Preterm Infants.”
107. Erin Davis, University of Illinois at Urbana-Champaign. “Early Life Milk Intake Among Infants of Different Feeding Modes.”


115. Samantha Weaver, University of Wisconsin-Madison. “Administration of Fluoxetine or a Small Molecule TPH1 Inhibitor Affects Litter Size, Pup Mortality, and Milk Yield During Murine Pregnancy and Lactation.”

Medical Nutrition Council

Graduate Student – First Place:
128. Junrui Cheng, Tufts University Friedman School of Nutrition Science and Policy. “Ablation of systemic SIRT1 activity promotes nonalcoholic fatty liver disease by affecting liver-mesenteric adipose tissue fatty acid mobilization.”

Postdoctoral Fellow – First Place:

Neurobiology
(sponsored by the Aging and Chronic Disease RIS, Nutrition Translation from Bench to Consumer RIS, and Obesity RIS)

First Place:
177. Kelly Sheppard, The Research Institute at Nationwide Children's Hospital. “The Omega-6 to Omega-3 Fatty Acid Ratio Predicts Brain Activity During Planning Tasks in Middle Childhood.”

Second Place:
178. Anne-Julie Tessier, McGill University. “Dairy Product Intake is Associated with Cognition but not Cognitive Decline in the NuAge Community-Dwelling Older Adult Cohort.”

Third Place:

Nutrient-Gene Interactions RIS

146. Krittikan Chanpaisaeng, Purdue University. “Femoral and L5 Spine Trabecular Bone are Differentially Influenced by Dietary Calcium Restriction and Genetics in Growing Mice.”

147. Wei Guo, University of North Carolina Greensboro. “Regulation of Endogenous Dusp4 by Agonist-Specific MAPK Activation in Adipocytes.”
Nutrition Education and Behavioral Sciences RIS

First Place:
137. Deborah Fetter, University of California, Davis. “Impact of Healthy Choices in Motion on Physical Activity Knowledge.”

139. Gabriella McLoughlin, University of Illinois at Urbana Champaign. “School Lunch and Physical Activity During Recess: Interactive Effects of Health Behaviors in the School Setting.”

Second Place:
135. Alexandra Cowan, Fairfield University. “More to Gain: Diet Energy Density is Associated with Smoking Status in US Adults.”

Third Place:

Nutrition Translation from Bench to Consumer RIS


Nutritional Epidemiology RIS

First Place:
150. Hassan Dashti, Massachusetts General Hospital. “Email administered web-based dietary assessment from the UK Biobank captures chronotype-specific reporting behaviors: implications for population-based dietary sampling.”


Second Place:
151. Anna Grummon, University of North Carolina, Chapel Hill. “Nutritional Profile of Supplemental Nutrition Assistance Program Household Food and Beverage Purchases.”


Third Place:

157. Melanie Mott, Boston University School of Medicine. “DIETARY CHOLESTEROL LOWERS RISK OF TYPE 2 DIABETES IN THE FRAMINGHAM OFFSPRING STUDY.”
First Place:

164. Ryan Calvert, Purdue University. “Myeloid Derived Suppressor Cells (MDSC) Are Vitamin D Targets and 1α, 25 Dihydroxyvitamin D (1,25(OH)2D) Inhibits their Ability to Suppress T Cell Function.”

Second Place:

165. William Green, University of North Carolina at Chapel Hill. “Altered Metabolism and Function of T Cells Isolated from Influenza Vaccinated Obese Adults.”

Third Place:

168. Jennifer Rebeles, UNC Chapel Hill. “Obesity Resets the Metabolic Profile of T Cells, Resulting in Reduced Memory T Cell Responses to Influenza Infection.”

Obesity RIS

First Place:

190. Diana Obanda, LSU AgCenter. “Obese prone CD rats robustly ferment resistant starch (RS) with no increased weight and fat accretion.”

Second Place:

188. Lucy Mailing, University of Illinois at Urbana-Champaign. “Effects of a 6 Week Aerobic Exercise Intervention on Gut Bacterial Metabolites in Lean and Obese Adults.”

Third Place:

187. Tzu-Wen Liu, University of Illinois at Urbana-Champaign. “Diet Differentially Impacts Gastrointestinal Integrity, Fecal β-glucuronidase Activity, and Longitudinal Fecal Microbial Communities of C57BL/6J Mice in Response to Ovariectomy-Induced Obesity.”

Policy
(sponsored by the Public Policy Committee)

203. Shauna Downs, Johns Hopkins University. “Salt and the city: a preliminary examination of New York City’s sodium warning labels.”

Vitamins and Minerals RIS

194. Laura Hackl, ETH Zürich. “A novel, high precision multiple-meal stable isotope method to compare iron absorption from extruded FePP-fortified rice containing different zinc compounds, citric acid/trisodium citrate and EDTA in Ghanaian children.”

195. Samantha Jones, Iowa State University. “Whole Egg Consumption as a Dietary Prevention and Treatment Intervention Increases Serum 25-hydroxyvitamin D Concentrations in Rats with DSS-Induced Colitis.”

198. Leila Larson, Emory University. “Home fortification with multiple micronutrient powders improves infant and young child development in Bihar, India.”
200. Cassondra Saande, Iowa State University. “Vitamin D Derived from Dietary Whole Egg is more Effective than Supplemental Vitamin D3 in Maintaining Vitamin D Balance in Type 2 Diabetic Rats.”

201. Elizabeth Stremke, Purdue University. “Twenty-Four-Hour Urine Phosphorus is Highly Variable in Patients with Moderate Chronic Kidney Disease on a Controlled Phosphorus Intake.”

202. Ying Xiao, Regenerative Medicine Research Center, West China Hospital, Sichuan University. “Deactivation of Fibroblasts and Reduction of Fibrosis by Target-Specific Copper Supplementation in Rhesus Monkey Model of Myocardial Ischemic Infarction.”
Special thanks to the sponsors of ASN’s Research Interest Sections and Councils whose support helped fund travel grants for the Emerging Leaders in Nutrition Science Poster Competition:

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