

Experimental Biology 2015 Calendar of Events

Featuring Office of Dietary Supplements
(ODS) Staff and ODS-Supported
Researchers, Projects, and Activities



Saturday, March 28, 2015

Sponsored Session. 26. Creating the Future of Evidence-Based Nutrition Recommendations Using Lipid Research Case Studies

8:00 a.m. – 12:00 p.m. Boston Convention & Exhibition Center, Grand Ballroom East
Chairs: *K.H. Rubin and J.T. Dwyer*

Award Competition. 36. Graduate Student Research Award Competition

1:30 p.m. – 4:30 p.m. Boston Convention & Exhibition Center, Room 151AB
Chair: *C.D. Davis*

Sunday, March 29, 2015

- Poster** **586. Nutrition Epidemiology: Research with Dietary Supplements and Bioactive Components**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 1:45 p.m. **C121 (586.6) Analytical Content of Multivitamin/Mineral Products Manufactured for Different Consumer Categories**
P.A. Gusev, K.W. Andrews, J.M. Palachuvattil, P.T. Dang, S. Savarala, F. Han, P.R. Pehrsson, L.W. Douglass, J.T. Dwyer, J.M. Betz, L.G. Saldanha, R.B. Costello, and R.L. Bailey. U.S. Department of Agriculture (USDA), Beltsville; Consultant, Longmont, CO; and ODS, National Institutes of Health (NIH).
- Poster** **587. Nutrition Epidemiology: Advancing Nutritional Epidemiology with Public Use and Commercial Data Sets**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 1:45 p.m. **C140 (587.16) Use of NHANES 2007–2010 Data to Identify Groups Vulnerable for Inadequate Micronutrient Intake**
S.R. Akabas, E.E. Paxson, R.L. Bailey, S. Saklani, and K.L. Tucker. Columbia University Medical Center; ODS, NIH; and University of Massachusetts at Lowell.
- Poster** **593. Nutrition Immunology: Nutritional Immunology**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 12:45 p.m. **C197 (593.3) Immunomodulation of Innate Immune Cells by *Sutherlandia frutescens*: A Transcriptomic Analysis**
W. Lei, Y. Lu, J. Hou, J. Li, J. Browning, P. Eichen, J. Cheng, D. Lubahn, W. Folk, G. Sun, and K. Fritsche. University of Missouri, Columbia.
- Poster** **599. Energy and Macronutrient Metabolism: Protein Intake and Health Implications**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 12:45 p.m. **C313 (599.5) Protein Sources, Nutrient Adequacy, and Diet Quality**
M.C. Karlsen, L.M. Troy, G. Rogers, J.T. Dwyer, N. McKeown, and P.F. Jacques. USDA at Tufts University; Friedman School of Nutrition, Tufts University; University of Massachusetts Amherst; Tufts Medical Center; and ODS, NIH.

- Poster **607. Dietary Bioactive Components: Mechanisms of Action and Molecular Targets of Dietary Bioactive Components**
 8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 12:45 p.m. **C400 (607.13) Molecular Analysis of Cholestyramine Treatment in Hamster Model Identified CYP51 as Cholestyramine-Responsive Gene**
H. Huang, Z. Xie, W. Yokoyama, L. Yu, and T.T.Y. Wang. University of Maryland College Park and USDA, Beltsville

ODS
 Congratulates the
 2015 Awardees

AMERICAN SOCIETY FOR NUTRITION (ASN) AWARDS CEREMONY
 6:00 p.m. Renaissance Boston Waterfront Hotel, Pacific Grand Ballroom ABCD

Excellence in Nutrition Education Award
Johanna T. Dwyer, D.Sc., R.D.
 Jean Mayer, USDA Human Nutrition Research Center on Aging, Tufts University

Monday, March 30, 2015

Minisymposium 250. Nutritional Epidemiology: Research with Dietary Supplements and Bioactive Components

8:00 a.m. – 10:00 a.m. Boston Convention & Exhibition Center, Room 153B
 Chairs: *N. Ahluwalia* and *R.L. Bailey*

- 9:00 a.m. **250.5. Comparison of Labeled Composition and Strength of Prenatal Multivitamin/Mineral Prescription and Nonprescription Supplements**
L.G. Saldanha, J.T. Dwyer, K.W. Andrews, R.A. Bailen, R.L. Bailey, J.M. Betz, R.B. Costello, P.T. Dang, J.J. Gahche, P.A. Gusev, F. Han, J. Palachuvattil, S. Savarala, and P.R. Pehrsson. ODS, NIH; USDA; and National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), Hyattsville.
- 9:15 a.m. **250.6. Release 3 of the U.S. Dietary Supplement Ingredient Database: Omega-3 (n-3) Fatty Acid and Nonprescription Prenatal Multivitamin/Mineral Supplements**
K.W. Andrews, J.M. Palachuvattil, P.A. Gusev, P.T. Dang, S. Savarala, F. Han, P.R. Pehrsson, L. Douglass, J.T. Dwyer, J.M. Betz, L.G. Saldanha, R.B. Costello, R.L. Bailey, and J.J. Gahche. USDA, Beltsville; ODS, NIH; Consultant, Longmont, CO; and NCHS, CDC, Hyattsville.
- 9:30 a.m. **250.7. Flavonoid Intakes are Predictive of Dietary Quality and Most Components of the Healthy Eating Index 2010**
R.S. Sebastian, C. Wilkinson Enns, J.D. Goldman, and A.J. Moshfegh. USDA, Beltsville, MD.

- Poster** **753. Diet and Cancer: Animal Studies**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 1:45 p.m. **C330 (753.12) Development of a Murine Model of Chemobrain to Evaluate the Efficacy of Nutritional Intervention**
A.A. Sheriff, T.K. Bhattacharya, E.J. Roy, J.S. Rhodes, W.G. Helferich, H. Chen. University of Illinois at Urbana-Champaign.
- Posters** **759. Vitamins and Minerals: Selenium**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 12:45 p.m. **C416 (759.1) Potential Role of the 15kDa Selenoprotein in Colorectal Inflammation**
P.A. Tsuji, B.A. Carlson, J.A. Canter, C. Onyewu, C.V. Saylor, R. Tobe, H.E. Seifried, Y. Yu, L. Cao, V.N. Gladyshev, C.D. Davis, and D.L. Hatfield. Towson University; National Cancer Institute (NCI), NIH; Brigham and Women's Hospital, Harvard Medical School; and ODS, NIH.
- 12:45 p.m. **C422 (759.7) Modulation of Intestinal Microbiota by Dietary Selenium and 15kDa Selenoprotein Expression in Inflammatory Colon Cancer**
J.A. Canter, S. Sheckells, C.V. Saylor, A. Patterson, B.A. Carlson, V.N. Gladyshev, Y. Yu, L. Cao, M. May, C.D. Davis, D.L. Hatfield, and P.A. Tsuji. Towson University; NCI, NIH; Brigham and Women's Hospital, Harvard Medical School; NCI, NIH; University of New England; and ODS, NIH.
- Poster** **777. Mitochondrial Pharmacology/Toxicology**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 12:30 p.m. **D116 (777.7) Evidence of Distinct Channel Conformations for the Mitochondrial Outer Membrane Translocase Tom40**
A.J. Kuszak, D. Jacobs, P.A. Gurnev, T. Lithgow, S.M. Bezrukov, T.K. Rostovtseva, and S.K. Buchanan. National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), NIH; *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD), NIH; and University of Massachusetts, Amherst.

Tuesday, March 31, 2015

- Symposium** **399. Improving Cardio-Skeletal Health by Exploring the Heart-Bone Connection**
3:00 p.m. – 5:00 p.m. Boston Convention & Exhibition Center, Room 157ABC
Chair: *C.M. Weaver*
- 3:25 p.m. **Racial Differences and the Impact of Nutrition in Osteoporosis, CVD, and Chronic Kidney Disease**
R.L. Bailey. ODS, NIH.
- Symposium** **400. History of Nutrition: The Long Road Leading to the Dietary Reference Intakes**
3:00 p.m. – 5:00 p.m. Boston Convention & Exhibition Center, Room 151AB
Chairs: *F.H. Nielsen and A.L. Yaktine*
- 4:00 p.m. **How the DRIs Have Changed Nutrition Policies**
J.T. Dwyer. ODS, NIH.
- Poster** **914. Medical Nutrition Council: Nutrition and the Microbiome**
8:30 a.m. – 5:00 p.m. Boston Convention & Exhibition Center, Exhibit Halls A & B
- 1:45 p.m. **C282 (914.4) Changes in the Intestinal Microbiota and Host Inflammatory Gene Expression in Pigs Fed a Flavanol-Enriched Cocoa Powder**
S. Jang, J. Sun, P. Chen, S. Lakshman, A. Molokin, J. Harnly, J.F. Urban, C.D. Davis, and G. Solano-Aguilar. USDA, Beltsville and ODS, NIH.

Wednesday, April 1, 2015

- Symposium 502. What's New in Natural Products Analysis? Cutting-Edge Methods and Available Resources for Nutrition Research**
8:00 a.m. – 10:00 a.m. Boston Convention & Exhibition Center, Room 157ABC
Chairs: B.C. Sorkin and J.M. Harnly
- 8:00 a.m. Importance of Accurate Measurement in Nutrition Research: Flavonoids as a Case Study**
J.M. Harnly. Agricultural Research Service (ARS) USDA.
- 8:25 a.m. How to Approach a More Holistic Analysis of Complex Natural Products**
C. Simmler. University of Illinois at Chicago.
- 8:50 a.m. The Challenge of Reproducibility in Natural Products Research: Perspectives and Examples from the National Institute of Complementary and Integrative Health (NICIH) Product Integrity Policy**
D.C. Hopp. NICIH, NIH.
- 9:15 a.m. Importance of Making Sure the Methods are a Match for the Materials, and the NIH Analytical Methods and Reference Materials Program**
P.N. Brown. British Columbia Institute of Technology.



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Supplements

The NIH ODS
provides accurate and up-to-date scientific information
about dietary supplements. Visit the ODS website at
<http://ods.od.nih.gov> to sign up for the ODS listserv.

ODS Resources for Researchers:

Website: <http://ods.od.nih.gov/Research/resourcesforresearchers.sec.aspx>

The Dietary Supplement Label Database (DSLDD) is a public use database designed to capture label information from virtually all dietary supplement products offered for sale in the United States.

Website: <http://DSLDD.NLM.NIH.gov/>

A searchable database of Analytical Methods and Reference Materials for ingredients found in dietary supplements.

Website: <http://ods.od.nih.gov/Research/AMRMPProgramWebsite.aspx>

