On behalf of the conference committee for the Linus Pauling Institute’s 10th International Conference (LPIIC), we welcome you to Corvallis! We are happy that you can join us on the beautiful Oregon State University campus this year.

LPIIC 2019 focuses on “Bioactives, Botanicals, and Redox Mechanisms” – areas of research vital to the mission of the Linus Pauling Institute. We especially want to call attention to our new sessions on botanical dietary supplements, neuroscience, and neurodegenerative diseases.

The public session features a talk by Nobel Laureate Louis “Lou” Ignarro. Lou will speak about his journey in life (including a cameo appearance by Linus Pauling) that led to a shared Nobel Prize in 1998 for his groundbreaking discoveries surrounding the biological functions of nitric oxide.

We are thankful for the support and collaboration of our friends at the Society for Redox Biology and Medicine (SfRBM) and the International Society for Neurochemistry (ISN). In addition, our gratitude goes out to all of our conference sponsors – we simply could not have brought this event to you without them.

Our gratitude goes out to everyone who helped organize this meeting: the scientific advisory committee (Adrian Gombart, Fred Stevens, and Maret Traber), the administrative committee (Alex Michels, Caitlyn Reilley, Dustin Helvie), and OSU Conference Services (especially Jen Stotts). Their hard work and dedication will make this an event to remember.

All the best,

Richard B. van Breemen, PhD
Director, Linus Pauling Institute, Oregon State University

Maria Clara Franco, PhD
Department of Biochemistry and Biophysics, Oregon State University

August 14, 2019
7:00 AM  
**Registration begins**  
CH2M Hill Alumni Center, Foyer

7:30 – 8:30 AM  
**Breakfast**  
CH2M Hill Alumni Center, Foyer

8:20 – 8:30 AM  
**Welcome**  
Richard van Breemen  
Linus Pauling Institute, Oregon State University  
Maria Clara Franco  
Biochemistry and Biophysics, Oregon State University

**Challenges for Botanical Dietary Supplements**  
Chair: J. Fred Stevens, PhD, Linus Pauling Institute, Oregon State University

8:30 – 9:00 AM  
**Botanical Dietary Supplement Research:**  
Priorities and Challenges from the Funders Perspective  
Wendy Weber  
National Center for Complementary and Integrative Health  
Bethesda, MD, USA

9:00 – 9:30 AM  
**Clinical Pharmacology for Botanicals in Drug Development**  
Chongwoo Yu  
US Food and Drug Administration  
Silver Spring, MD, USA

9:30 – 10:00 AM  
**Botanical Dietary Supplements: Regulatory Challenges and Research Resources**  
Paul Coates  
Former Director of the Office of Dietary Supplements, National Institutes of Health  
Silver Spring, MD, USA

10:00 – 10:20 AM  
**Break**

10:20 – 10:50 AM  
**Safety of Botanical Dietary Supplements**  
Paula Brown  
British Columbia Institute of Technology  
Burnaby, British Columbia, Canada

10:50 – 11:20 AM  
**Natural Product-Drug Interaction Research:**  
Cultivating Best Practices  
Mary Paine  
Washington State University  
Spokane, WA, USA

11:20 – 11:50 AM  
**Botanical Ingredient Adulteration:**  
How Some Suppliers Attempt to Fool Commonly Used Analytical Techniques  
Stefan Gafner  
American Botanical Council  
Austin, TX, USA

11:50 – 12:10 AM  
**Regulatory Approvals for Clinical Studies of Botanical Products - Centella asiatica as a Case Study**  
Amala Soumyanath  
Oregon Health and Science University  
Portland, OR, USA

12:10 – 1:30 PM  
**Lunch**  
LaSells Stewart Center, Gustina Gallery

All scientific sessions will be held in the CH2M Hill Alumni Center
Botanical Supplements: From Safety to Application
Chair: Richard van Breemen, PhD, Linus Pauling Institute, Oregon State University

1:30 – 2:00 PM Qualitative and Quantitative Analysis of Residual Pyrrolizidine Alkaloids in Commercial Borage Oil Products
Dejan Nikolic
University of Illinois
Chicago, IL, USA

2:00 – 2:30 PM Untargeted Metabolomics for Authentication of Botanical Dietary Supplements
Nadja Cech
University of North Carolina
Greensboro, NC, USA

2:30 – 3:00 PM Black Cohosh: Confusion Regarding the Mechanism of Action of a Botanical Dietary Supplement
Edward Kennelly
Lehman College, City University of New York
Bronx, NY, USA

3:00 – 3:20 PM Break

3:20 – 3:50 PM Polyphenols from Hops (Humulus lupulus) for Mitigating Metabolic Syndrome and Inflammatory Bowel Disease
J. Fred Stevens
Linus Pauling Institute, Oregon State University
Corvallis, OR, USA

3:50 – 4:20 PM Impact of an Extract from Artemisia dracunculus on Metabolic Syndrome
Elizabeth Floyd
Pennington Biomedical Research Center, Louisiana State University
Baton Rouge, LA, USA

4:20 – 4:50 PM Enhanced Detoxication of Air Pollutants with Broccoli-Based Interventions
Tom Kensler,
Fred Hutchinson Cancer Research Center
Seattle, WA, USA

4:50 – 5:10 PM Long-Term Effects of a Botanical Cardiovascular Support Formula on Blood Pressure in Adults with Prehypertension and Stage 1 Hypertension
Jennifer Ryan
National University of Natural Medicine
Portland, OR, USA

All scientific sessions will be held in the CH2M Hill Alumni Center
6:00 AM  
**Organized Walk/Run - Hilton Garden Inn Lobby**

7:30 – 8:30 AM  
**Breakfast**
CH2M Hill Alumni Center, Foyer

**ISN Symposia: New Therapeutic Approaches in Neurological Diseases**
*Chair: Alvaro Estevez, PhD, Biochemistry and Biophysics, Oregon State University*

8:25 – 8:30 AM  
**Introduction to the ISN**

8:30 – 9:00 AM  
**Modified Flavonoids for the Promotion of Nervous System Repair in Neurodegenerative Disease**
Larry Sherman
Oregon Health and Science University
Portland, OR, USA

9:00 – 9:30 AM  
**Modeling Human Neurodegeneration and Neuronal Cell Death**
Lee Martin
Johns Hopkins Medicine
Baltimore, MD, USA

9:30 – 10:00 AM  
**Therapeutic Intervention to Induce Immunomodulation, Remyelination and Neuroprotection: The Magic Bullet**
Seema Tiwari-Woodruff
University of California
Riverside, CA, USA

10:00 – 10:20 AM  
**Break**

10:20 – 10:50 AM  
**Maintenance of Proteostasis by Bioactive Compounds: Implication for Neurodegenerative and Age-Related Diseases**
Tilman Grune
University of Potsdam
Potsdam, Germany

10:50 – 11:20 AM  
**Vitamin K in the Nervous System**
Douglas Feinstein
University of Illinois
Chicago, IL, USA

11:20 – 11:50 AM  
**The Impact of Flavonoid Intake on Human Neurocognitive Function: The Role of the Vascular System**
Jeremy Spencer
University of Reading
Reading, United Kingdom

11:50 – 12:10 PM  
**Conference Photograph**
Courtyard between Alumni Center and LaSells

12:10 – 1:30 PM  
**Lunch**
LaSells Stewart Center, Gustina Gallery

All scientific sessions will be held in the CH2M Hill Alumni Center.
### An Update on Vitamins
*Chairs: Adrian Gombart, PhD and Emily Ho, PhD Linus Pauling Institute, Oregon State University*

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<tr>
<td>1:30 – 2:00 PM</td>
<td>Vitamin C – A Wolf in a Sheep’s Clothing: From Simple Carbohydrate to Epigenetic Master Regulator</td>
<td>Jens Lykkesfeldt, University of Copenhagen, Denmark</td>
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<td>2:00 – 2:30 PM</td>
<td>Supporting Post-partum Homeorhesis with Nicotinamide Riboside: A Boost to Mom’s Metabolism that Produces More Capable Offspring from Eye-Opening to Adulthood</td>
<td>Charles Brenner, University of Iowa, Iowa City, IA, USA</td>
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<td>2:30 – 2:50 PM</td>
<td>The Impact of a Multivitamin and Mineral Supplement on the Immune Function of Healthy Older Adults: A Randomized Controlled Trial</td>
<td>Adrian Gombart, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA</td>
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<tr>
<td>2:50 – 3:10 PM</td>
<td>Break</td>
<td></td>
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<tr>
<td>3:10 – 3:30 PM</td>
<td>Acute Vitamin C Depletion During Sepsis Leads to Prolonged Behavioral Change</td>
<td>Fiona Harrison, Vanderbilt University, Nashville, TN, USA</td>
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<td>3:30 – 3:50 PM</td>
<td>Novel Insights into Mechanisms of Vitamin E Absorption in Humans</td>
<td>Maret Traber, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA</td>
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### Lightning Talks and Poster Session
*Chairs: Maret Traber, PhD, Linus Pauling Institute, Oregon State University*

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<td>3:50 – 3:55 PM</td>
<td>Introduction and Setup</td>
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| 3:55 – 4:30 PM | Group A:                                                                                         | Manuel Garcia-Jaramillo - Poster #16  
Dov Lichtenberg - Poster #23  
Lucía Fernández del Río - Poster #13  
Sara Thomas - Poster #52 |
| 4:30 – 4:55 PM | Group B:                                                                                         | Anat Elmann - Poster #11  
Richard Bruno - Poster #6  
Brian Head - Poster #17 |
| 4:55 – 5:20 PM | Group C:                                                                                         | Grace Ross - Poster #45  
Jun-Feng Wang - Poster #55  
Ines Paraiso - Poster #37 |
| 5:20 – 7:30 PM | Poster Session and Reception                                                                    | Willamette (Room 115)  
Trysting Tree (Room 114)  
Elle and Burlingham (Room 111) |

All scientific sessions will be held in the CH2M Hill Alumni Center.
6:00 AM  Organized Walk/Run - Hilton Garden Inn Lobby

7:30 – 8:30 AM  Breakfast
Provided at the CH2M Hill Alumni Center

**Redox Biology of Neurodegeneration and Cancer**
*Chair: Maria Clara Franco, PhD, Biochemistry and Biophysics, Oregon State University*

8:30 – 9:00 AM  Redox Signaling and Metabolism in a Mouse Model of Alzheimer’s Disease
Enrique Cadenas
University of Southern California
Los Angeles, CA, USA

9:00 – 9:30 AM  Redox Proteomics and Amyloid Beta - Peptide: Focus on the Intersection of Oxidative Damage Indexed by HNE-Bound Brain Proteins, Glucose Dysmetabolism, and Alzheimer Disease
Allan Butterfield
University of Kentucky
Lexington, KY, USA

9:30 – 9:50 AM  Investigating the Role of Nrf2 in Mediating the Beneficial Effects of *Centella asiatica* in the Aging Brain
Nora Gray
Oregon Health and Science University
Portland, OR, USA

9:50 – 10:20 AM  Pharmacological Applications of Modulators of Oxidative Stress
Luciano Saso
Sapienza University of Rome
Rome, Italy

10:20 – 10:40 AM  Break

10:40 –11:10 AM  Exploiting Redox Biology for Selectively Targeting Cancer Cells: Therapeutic Implications
Douglas Spitz
University of Iowa
Iowa City, IA, USA

11:10 –11:40 AM  The Adaptable Antioxidant Milieu of Tumor Cells
Nadine Hempel
Penn State Cancer Institute
Hershey, PA, USA

11:40 –12:10 PM  The Use of SOD Mimics as a Radioprotector in Prostate Cancer Therapy
Rebecca Oberley-Deegan
University of Nebraska Medical Center
Omaha, NE, USA

12:10 – 1:30 PM  Lunch
Alumni Center Courtyard

All scientific sessions will be held in the CH2M Hill Alumni Center
**Contributed Talks**

*Chair: Richard van Breemen, PhD, Linus Pauling Institute, Oregon State University*

1:30 – 1:50 PM  
**Plasma Aβ as a Biomarker for Alzheimer’s Disease**  
Scott Kuzdzal  
Shimadzu Scientific Instruments  
Baltimore, MD, USA

1:50 – 2:10 PM  
**Phosphoproteomics Dereplicates Pharmacology of Leucettine Analogue L41 on the Correction of Cognitive Deficits in Down Syndrome Mouse Models**  
Spiros Garbis  
California Institute of Technology  
Pasadena, CA, USA

2:10 – 2:30 PM  
**From Source to Bedside: Real-World Challenges in Translational Studies of Centella asiatica for Alzheimer’s Disease**  
Kirsten Wright  
Oregon Health and Science University  
Portland, OR, USA

2:30 – 2:50 PM  
**Quercetin Prevents Rhinovirus-Induced Progression of Lung Disease in a Mouse Model of Chronic Obstructive Pulmonary Disease**  
Umadevi Sajjan  
Temple University  
Philadelphia, PA, USA

2:50 – 3:20 PM  
**Young Investigator Awards**

3:20 – 3:30 PM  
**Closing remarks**  
Richard van Breemen and Maria Clara Franco  
Conference Chairs

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**Public Session**

*Location: LaSells Stewart Center, Oregon State University*

3:30 – 4:30 PM  
**Reception and Open House**  
Gustina Gallery

3:30 – 4:30 PM  
**Keynote: The Road to Stockholm: A Nobel Mission**  
Louis Ignarro  
Nobel Laureate, Physiology or Medicine, 1998  
Austin Auditorium

7:00 PM  
**Conference Dinner**  
The Vue, Downtown Corvallis

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**Louis J. Ignarro, PhD**

Dr. Ignarro earned the Nobel Prize in Physiology or Medicine in 1998 and is best known for his discoveries regarding nitric oxide as a signaling molecule in the cardiovascular system.

Ignarro, a Brooklyn-born son of Italian immigrants, studied chemistry and pharmacology at Columbia University and earned a doctorate at the University of Minnesota. He has been on the faculty of UCLA since 1985.
Posters are arranged alphabetically by presenter’s last name. Additional speaker affiliations, photos and abstracts can be found on our website or by downloading the conference mobile phone application provided by our conference partners the Society for Redox Biology and Medicine at this link or the QR code here.

To Download the Conference Mobile Application:
1. Access Apple Store or Google Play
2. Search SfRBM
3. Install the SfRBM application
4. Open the application and select “LPIIC 2019” under “upcoming conferences”

1. Metabolomic Profiling of Phytochemicals in Deuterium-Labeled Collard Greens by HPLC-MS/MS
   Laura Beaver, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

2. After School Cooking Courses Empower Elementary and Middle School Aged Children to Make Lasting Healthy Food Choices
   Gerd Bobe, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

3. Harvest Box Program Improves Fruit and Vegetable Consumptions in Low-Income, High-Obesity Risk Hispanic Families
   Gerd Bobe, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

   Gerd Bobe, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

5. A Cross-sectional Analysis to Identify Reasons for the Disconnect Between Dietary Recommendations and Legume Consumption Patterns in U.S. Adults
   Gerd Bobe, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

6. Brain α-Tocopherol Stereoisomer Profile is Differentially Impacted by Mode of Feeding and Source of α-Tocopherol in Infant Rhesus Macaques
   Richard S Bruno, Human Nutrition Program, The Ohio State University, Columbus, OH, USA

7. The Role of Thioredoxin Reductase 1 in Redox Regulation of Melanocyte Homeostasis
   Evan Carpenter, College of Pharmacy, Oregon State University, Corvallis, OR, USA

8. Loss of Aryl Hydrocarbon Receptor Potentiates Self-Renewal of Colonic Stem and Progenitor Cells
   RS Chapkin, Program in Integrative Nutrition and Complex Diseases, Texas A&M University, College Station, TX, USA

9. Clinical Evaluation of Red Clover-Drug Interactions Using Probe Substrates of Cytochrome P450 Enzymes and a Red Clover Dietary Supplement
   Luying Chen, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

10. Zinc Status Elicits Age-Dependent Effects in the Gut Microbiome
    Edward Davis, Center for Genome Research and Biocomputing, Oregon State University, Corvallis, OR, USA

11. Harnessing Phytochemicals to Protect Neuronal and Glial Cells from Oxidative Stress
    Anat Elmann, Department of Food Science, The Volcani Center, Agricultural Research Organization, Israel

12. Exploring the Anticancer Action of Novel AhR Ligands in Triple-Negative Breast Cancer
    Daniel Elson, Oregon State University, Corvallis, OR, USA

13. Kaempferol Increases Levels of Coenzyme Q in Kidney Cells and Serves as a Biosynthetic Ring Precursor
    Lucía Fernández del Río, Department of Chemistry and Biochemistry and the Molecular Biology Institute, University of California, Los Angeles, CA, USA

14. Validation of an In Vitro-In Vivo Hybrid Approach for Studying Modulation of NRF2 in Bovine Mammary Cells
    Hunter Ford, Oregon State University, Corvallis, Oregon, USA

15. -

16. Lipidomic and Metabolomic Analysis of Western Diet-Induced Nonalcoholic Steatohepatitis (NASH) in Ldlr⁻/⁻ Mice
    Manuel Garcia-Jaramillo, School of Biological and Population Health Sciences, Oregon State University, Corvallis, OR, USA

17. Vitamin E Deficiency Depletes Redox-Active Thiols to Disrupt Zebrafish Embryo Patterning and Early Neurogenesis Events
    Brian Head, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA
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Rosa Keller, Oregon State University, Corvallis, OR, USA |
| 19. Astaxanthin Inhibits Interleukin-8 Expression in Helicobacter pylori-infected Gastric Epithelial Cells  
Suhn Hyung Kim, Department of Food and Nutrition, Yonsei University, Seoul, The Republic of Korea |
| 20. Astaxanthin Induces Expression of Antioxidant Enzymes in Expression in Helicobacter pylori-Infected Gastric Epithelial Cells  
Suhn Hyung Kim, Department of Food and Nutrition, Yonsei University, Seoul, The Republic of Korea |
Nicholas Korjef, Cancer Research Laboratory, Environmental and Molecular Toxicology, Oregon State University, Corvallis, OR, USA |
Scott W. Leonard, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 23. The Steady State Concentrations of Antioxidants and Peroxidation Products Can Be Used to Classify the Biomarkers  
Dov Lichtenberg, Department of Physiology and Pharmacology, Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel |
| 24. Absorption and Metabolism of Irlone in the Caco-2 Cell Model  
Jialin Liu, Linus Pauling Institute and College of Pharmacy, Oregon State University, Corvallis, OR, USA |
| 25. Antiproliferative and Cytotoxic Activity of Xanthohumol and Its Non-Estrogenic Derivatives in Colon and Hepatocellular Carcinoma Cell Lines  
Isabelle E Logan, Department of Biochemistry and Biophysics and Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 26. The Role of Intestinal Microbiota in High-Fat Diet Induced Obesity  
Isabelle E Logan, Department of Biochemistry and Biophysics and Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 27. Integration of Untargeted and Targeted Mass Spectrometry for the Characterization of Botanical Extracts: Application to Extracts of Centella asiatica, an Ayurvedic Herb with Potential Neuroprotective Effects  
Armando Alcazar Magana, Department of Chemistry, Oregon State University, Corvallis, OR, USA |
| 28. Dietary Antioxidants Attenuate Hyperoxia-Induced Lung Injury Immune Function  
Lin Mantell, St. John’s University, Queens, NY, USA |
| 29. Gender Differences in Behavioral Deficits, and Response to Centella asiatica Water Extract and Constituent Compounds, in the 5XFAD Mouse Model of Alzheimer’s Disease  
Donald Matthews, Department of Neurology, Oregon Health and Science University, Portland, OR, USA |
| 30. GNPS Analysis Integrated with New Model-Predicted Bioactives in Hops Extract  
Luce Mattio, Department of Food, Environmental and Nutritional Sciences, Universita’ degli Studi di Milano, Milan, Italy  
Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
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Mihail Mitov, Idaho College of Osteopathic Medicine, Meridian, ID, USA |
| 32. Automation and Application of Magnetic Based Affinity Selection Screening for Targets of Retinoid X Receptor alpha (RXRα)  
Ruth Muchiri, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 33. Aryl Hydrocarbon Receptor (AhR) Mediated Anticancer Effects of 11BBQ in Lung Cancer  
Bach Nguyen, Environmental & Molecular Toxicology Department, Oregon State University, Corvallis, OR, USA |
| 34. Quantification of Superwarfarin Rodenticides in Plasma using High-Performance Liquid Chromatography-Tandem Mass Spectrometry  
Daniel Nosal, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 35. A Supplement Containing Specialized Pro-Resolving Mediators (SPM) Improved Physical Functions in Subjects with Fibromyalgia: An n-of-1 Type Clinical Evaluation  
Annalouise O’Connor, Metagenics Inc., Gig Harbor, WA, USA |
| 36. A Product for Health Span Based on the Synergy Between Vitamins C and K  
Alred “Roc” Ordman, Beloit College, Beloit, WI, USA |
| 37. Intestinal FXR Signaling Mediates the Anti-Obesity Benefits of Xanthohumol  
Ines L. Paraiso, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
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  Martin Pearce, Oregon State University, Corvallis, OR, USA |
| 39. Tyrosine Nitration Induces a Metabolic Reprogramming in Neurofibromatosis Type 2-Associated Schwannoma  
  Jeanine Pestoni, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, OR, USA |
| 40. Total Synthesis of Isotopologues of Xanthohumol and its Congeners for Biological Studies  
  Layhna Plagmann, Department of Chemistry, Oregon State University, Corvallis, OR, USA |
| 41. Say NO to Disease: Effect of Nitric Oxide on Disease Prevention and Reversal  
  Stephanie Polizzi, OSU Extension Family & Community Health, Coos/Curry, Myrtle Point, OR, USA |
| 42. Induction of p27Kip1 by Select AhR Ligands for Cancer Therapy  
  Veronica Puig-Sanvicens, Environmental and Molecular Toxicology, Oregon State University, Corvallis, OR, USA |
| 43. Mitochondrial Heterogeneity Corresponds with Altered Cardiolipin Content in an Aging Model but not in a β-amyloid Expressing Mouse Model  
  Amanda Radke, Biochemistry and Biophysics, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 44. Aggresome-like Formation Promotes Resistance to Proteotoxicity in Cells from Long-lived Species  
  Ruben T. Riordan, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 45. The Role of Nrf2 in Brain Cellular Senescence  
  Grace Ross, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, OR, USA |
| 46. Isomeric Identification of Procyanidins Using Ultrahigh Pressure Liquid Chromatography - Tandem Mass Spectrometry  
  Emily Rue, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 47. Early Sex Differences in AMPA and NMDA Receptor Responses in 5xFAD Mice  
  Emily Sackinger, Oregon State University, Corvallis, OR, USA |
| 48. Detection of Antioxidant Compounds in Moringa oleifera Flowers by HPLC-FLD/ECD and TLC and Phytochemical Analysis  
  Erick Sierra-Campos, Universidad Juárez del Estado de Durango, Gómez Palacio, Durango, México |
| 49. Modulation of AhR Activity by 11BBQ in Cancer Cells  
  Brenna Stevens, Biochemistry and Biophysics, Oregon State University, Corvallis, OR, USA |
| 50. Antioxidant Activity of the Extracts from Pericarp and Seed of Zanthoxylum limonella (Dennst.) Alston  
  Linna Tongyonk, Department of Food and Pharmaceutical Chemistry, Faculty of Pharmaceutical Science, Chulalongkorn University, Bangkok, Thailand |
| 51. Triphenylphosphonium-Glutathione as a Protectant Against Mitochondrial Decay  
  Nicholas Thomas, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
| 52. Kefir Probiotic Protocol Significantly Reduces Hospital Acquired Clostridium difficile Infections  
  Sara Thomas, Sodexo at Good Samaritan Regional Medical Center, Corvallis, OR, USA |
| 53. Medical Food Grade Cranberry Extract Eliminates E.coli Catheter Associated Urinary Tract Infections (CAUTIs) in the Hospital  
  Sara Thomas, Sodexo at Good Samaritan Regional Medical Center, Corvallis, OR, USA |
| 54. GNPS Enables Metabolite Discovery Associated with GABA Neurotransmitters in the Hippocampus of Mice Brain  
  Ashish Vaswani, Department of Chemistry, Oregon State University, Corvallis, OR, USA |
| 55. Upregulation of Thioredoxin-Interacting Protein in Brain of Amyloid Precursor Protein/Presenilin 1 Transgenic Mice and Beta-amyloid Treated Neuronal Cells  
  Jun-Feng Wang, Department of Pharmacology and Therapeutics, University of Manitoba, Winnipeg, Canada |
| 56. Vitamin E Deficiency Causes Increased Lipid Peroxidation and Alteration of Sphingolipid Species and Long Chain Polyunsaturated Fatty Acids in Zebrafish Eyes  
  Maria Wetzel, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA |
57. Urinary Estrogen Derivatization and High-Resolution LC-MS Analysis to Determine Modulation of Estrogen Metabolism in Women Resulting from Use of Botanical Dietary Supplements
  Alan Wong, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

58. Gut Microbial and Hepatic Metabolism of the Hop Flavonoid Xanthohumol in Humans
  Wenbin Wu, Department of Pharmaceutical Sciences, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

59. Effects of Zinc Status and Aging on Age-Related Immune Dysfunction and Chronic Inflammation
  Carmen P. Wong, Linus Pauling Institute, School of Biological and Population Health Sciences, Oregon State University, Corvallis, OR, USA

60. Pseudoaldosteronism as an Adverse Effect of Glycyrrhiza Intake: Pathophysiology and Detection of the Causative Metabolite
  Tetsuhiro Yoshino, Center for Kampo Medicine School of Medicine, Keio University, Shinjuku, Tokyo, Japan

61. TXN – a Bioactive Xanthohumol Derivative – Prevents Diet-Induced Dyslipidemia Possibly by Promoting Cholesterol Efflux: An Alternative to Statins?
  Yang Zhang, Linus Pauling Institute, Oregon State University, Corvallis, OR, USA

Thank you to all our sponsors!
Conference Hotels:
Hilton Garden Inn, 2500 SW Western Blvd, Corvallis, OR, 97333
Courtyard by Marriott, 400 SW 1st St, Corvallis, OR, 97333

Conference Venues:
Oregon State University Campus:
CH2M Hill Alumni Center, 725 SW 26th St, Corvallis, OR, 97331
LaSells Stewart Center, 875 SW 26th St, Corvallis, OR, 97331