



Diet and Optimum Health Conference 2023

Precision Health: Living Better, Longer

CH2M HILL Alumni Center | Corvallis, Oregon

Tuesday, September 19

- 7:30 am** **Registration Opens, Atrium**
- 7:30 – 8:30 am** **Breakfast, Cascade Ballroom**
- 8:15 – 8:30 am** **Welcome**
[Emily Ho, PhD](#)
Director, Linus Pauling Institute,
Professor, School of Public Health,
Oregon State University
- 8:30 – 10:00 am** **Session 1: Precision Health Keynote Panel**
Moderator:
Emily Ho, PhD
Linus Pauling Institute and School of Public Health,
Oregon State University
- [Holly Nicastro, PhD, MPH](#)
Program Director, Nutrition for Precision Health,
Office of Nutrition Research, National Institutes of Health
- [Cindy Davis, PhD](#)
National Program Leader, Human Nutrition,
Agricultural Research Service, US Department of Agriculture
- [Andrea Wong, PhD](#)
Senior Vice President, Scientific and Regulatory Affairs,
Council for Responsible Nutrition
- 10:00 – 10:30 am** **Morning Break, Atrium, sponsored by DSM**
- Session 2: How Big Data Informs Optimal Nutrition**
Moderators:
Gerd Bobe, PhD
Linus Pauling Institute and Department of Animal and Rangeland Sciences,
Oregon State University
- Laura Beaver, PhD*
Linus Pauling Institute and School of Public Health,
Oregon State University
- 10:30 – 11:00 am** *Distinct Factors Associated with Short-Term and Long-Term Weight Loss*
[Xiao Li, PhD](#)
Assistant Professor, Department of Biochemistry,
School of Medicine, Case Western Reserve University



- 11:00 – 11:30 am** *Artificial Intelligence & Other Technology: A Systems Approach for Population-Personalized Health*
[Bruce Y Lee, MD, MBA](#)
Professor, Department of Health Policy and Management,
Executive Director of CATCH, PHICOR, and AIMINGS,
Graduate School of Public Health & Health Policy, City University of New York
- 11:30 am – 12:00 pm** *Modernizing Data Technology to Reveal Dietary Influences on Health Outcomes*
[Melissa Haendel, PhD](#)
Chief Research Informatics Officer
University of Colorado Anschutz Medical Campus
- 12:00 – 1:30 pm** **Lunch, Cascade Ballroom, sponsored by Pharmavite**
- Session 3:**
Nutrition and the Microbiome: More Than What You Eat
Moderators:
J. Frederik Stevens, PhD
Linus Pauling Institute and Department of Pharmaceutical Sciences,
Oregon State University
- Paige Jamieson*
Linus Pauling Institute and Nutrition Graduate Program,
Oregon State University
- 1:30 – 2:00 pm** *Ketogenic Diets Alter Host Immunity via the Gut Microbiome*
[Peter Turnbaugh, PhD](#)
Professor, Department of Microbiology and Immunology,
University of California San Francisco
- 2:00 – 2:30 pm** *Opportunities for Precision Nutrition in the First 1000 Days: Nurturing the Holobiont*
[Sharon Donovan, PhD](#)
Professor and Melissa M. Noel Endowed Chair in Nutrition and Health,
Nutritional Director, Personalized Nutrition Initiative,
Nutritional Sciences, University of Illinois at Urbana Champaign
- 2:30 – 3:00 pm** *Defining the Exposure-Based Determinants of Dysbiosis at Scale*
[Thomas Sharpton, PhD](#)
Associate Professor, Microbiology and Statistics
Oregon State University
- 3:00 – 3:30 pm** **Afternoon Break, sponsored by Brassica Protection Products**



Session 4: Lightning Talks, sponsored by Balchem

Moderators:

Maret Traber, PhD
Linus Pauling Institute,
Oregon State University

Eric Ciappio, PhD, RD
Strategic Development Manager, Nutrition Science,
Balchem Corporation

3:30 – 4:30 pm

Young Investigator Award Finalists

Does the Cathelicidin/LL-37 Peptide Affect Amyloid-beta Aggregation in a Mouse Model of Alzheimer's Disease?

Evan Duvivier, Oregon State University

Metabolomics of dietary spinach in the context of colorectal cancer: investigating linoleate and butanoate metabolites targeting immunoepigenetics

Sultan Neja, Texas A&M University

Effects of Quercetin Supplementation on lipid profile, liver enzymes, inflammatory indices and Hematological Parameters in Non-Alcoholic Fatty Liver Disease: a Randomized, Double-Blind, Placebo-Controlled Pilot Study

Mahak Hosseinikia, Oregon State University

Gut microbiota-mediated metabolism of xanthohumol and its impact on gastrointestinal health: findings from the XMaS trial

Paige Jamieson, Oregon State University

Exploring the neuroprotective potential of selected dietary soft electrophiles.

Swarnali Chatterjee, The University of Alabama

Survival of bioactive human milk proteins across digestion in preterm infants

Brianne Wai, Oregon State University

Supraphysiological intravenous vitamin C reprograms energy metabolism in cancer patients

Philenroza Thavrin, Oregon State University

4:30 – 5:00 pm

Lightning Talk Speakers

Metabolic health impacts of seaweeds Pacific dulse and nori in diet-induced obese mice

Jung Yeon Kwon, Oregon State University

Factors affecting the vitamin C dose-concentration relationship: Implications for global vitamin C dietary recommendations

Anitra C. Carr, University of Otago, Christchurch



Centella asiatica administered in drinking water, but not diet, attenuates age-related changes in cognition and anxiety

Nora Grey, Oregon Health and Sciences University

5:00 – 7:00 pm

Reception and Poster Session, sponsored by Vytalogy Wellness

Coordinators:

Alexander Michels, PhD, and Joan Rutkowski

Linus Pauling Institute,

Oregon State University

Wednesday, September 20

7:30 am

Registration Opens, Atrium

7:30 – 8:30 am

Breakfast, Cascade Ballroom

8:30 – 10:00 am

Session 5: Healthspan Keynote Panel

Moderator:

Emily Ho, PhD

Linus Pauling Institute and School of Public Health,

Oregon State University

[Matt Kaeberlein, PhD](#)

CEO, Optispan Inc.

Affiliate Professor, Oral Health Sciences, University of Washington

[Holly Van Remmen, PhD](#)

Professor, Aging & Metabolism Research Program,

Oklahoma Medical Research Foundation

[David Furman, PhD](#)

Associate Professor and Chief, AI Platform,

Buck Institute for Research on Aging

10:00 – 10:30 am

Morning Break, sponsored by DSM

Session 6:

What to Do About Getting Older: Healthy Aging Interventions

Moderators:

Alysia Vrailas-Mortimer, PhD

Linus Pauling Institute and Department of Biochemistry and Biophysics,

Oregon State University

Claudia Maier, PhD

Linus Pauling Institute and Department of Chemistry,

Oregon State University

10:30 – 11:00 am

Aging, Cellular Senescence, and Senolytics: The Path to Translation

[James Kirkland, MD, PhD](#)

Noaber Foundation Professor of Aging Research, Mayo Clinic

Principal Investigator, NIH Translational Geroscience Network



- 11:00 – 11:30 am** *Healthspan-inducing Natural and Bio-inspired Chemical Compounds Targeting the Proteasome (co-sponsored as ProteoCure Dissemination Talk)*
[Niki Chondrogianni, PhD](#)
Research Director, Institute of Chemical Biology,
National Hellenic Research Foundation
- 11:30 am – 12:00 pm** *Multivitamin Supplementation for Cognitive Improvement & Protection Against Decline in Older Adults*
[Laura Baker, PhD](#)
Professor, Gerontology and Geriatric Medicine,
Wake Forest University
- 12:00 – 1:30 pm** **Lunch, sponsored by Amway**
- Session 7: Fortifying an Aging Immune System**
Moderators:
Adrian "Fritz" Gombart, PhD
Linus Pauling Institute and Department of Biochemistry and Biophysics,
Oregon State University
- Carmen Wong, PhD*
Linus Pauling Institute and School of Public Health,
Oregon State University
- 1:30 – 2:00 pm** *Postbiotics, Longevity, and Immunosenescence*
[Heather Zwickey, PhD](#)
Senior Research Investigator, Helfgott Research Institute,
National University of Natural Medicine
- 2:00 – 2:30 pm** *A to Z of Host-Microbiome Interactions*
[Shipra Vaishnava, PhD](#)
Assistant Professor, Molecular Microbiology and Immunology,
Brown University
- 2:30 – 3:00 pm** *Altered Zinc Homeostasis, the Gut-Lung Microbiome Axis, and Host Defense Against Bacterial Pneumonia*
[Daren Knoell, PharmD, FCCP](#)
Professor and Chair, Pharmacy Practice and Science
University of Nebraska Medical Center
- 3:00 – 3:30 pm** **Afternoon Break, sponsored by Abbott Laboratories**



Session 8: Slowing the Decline: Healthy Cognitive Function with Age

Moderators:

Kathy Magnusson, DVM, PhD

*Linus Pauling Institute and Department of Biomedical Sciences
Oregon State University*

Luke Marney, PhD

Department of Chemistry, Oregon State University

3:30 – 4:00 pm

Dietary Approaches to Reducing Risk for Alzheimer’s Disease and Pathological Brain Aging

[Suzanne Craft, PhD](#)

*Professor, Gerontology and Geriatric Medicine,
Wake Forest University*

4:00 – 4:30 pm

Soft Electrophilic Phytochemicals in the Prevention and Treatment of Neurodegenerative Diseases

[Lukasz Ciesla, PhD](#)

*Assistant Professor, Department of Biological Sciences,
The University of Alabama*

4:30 – 5:00 pm

Vitamin K and the Aging Brain

[Sarah Booth, PhD](#)

*Director, Jean Mayer USDA Human Nutrition Research Center on Aging,
Tufts University*

7:00 – 7:30 pm

Reception, Atrium

7:30 – 9:30 pm

Banquet Dinner and Awards Ceremony, Cascade Ballroom