

American Society for Nutrition Program Guide

SAN
DIEGO

Welcome to the beach!

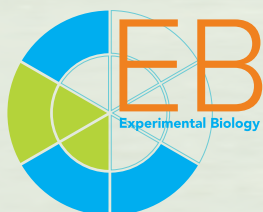
Scientific Sessions & Annual Meeting
at Experimental Biology

San Diego Convention Center • April 26-30, 2014

Meeting Tracks

Pediatric Nutrition and Early Development
Biochemical, Molecular and Genetic Mechanisms
Diet and Non-Communicable Diseases
Human Nutrition and Metabolism
Global and Public Health Nutrition
Research Methods and Funding
Education Track
International Forums *and more!*

More than
50 hours
of Continuing
Professional
Education for
Registered
Dietitians!



American Society for Nutrition
Excellence in Nutrition Research and Practice
www.nutrition.org

scientificsessions.nutrition.org

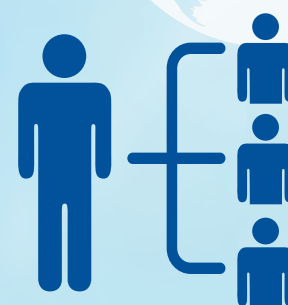


American Society for Nutrition
Excellence in Nutrition Research and Practice

Visit Us at Booth #301!

@nutritionorg #XBio

ASN is home to more than **5,000 members** who work in academia, practice, government and industry across **80 different countries**.



Half a million in scientific awards, scholarships, grants, travel awards and honoraria to support the best and brightest of our field.

All 15 experts on the Dietary Guidelines Advisory Committee are ASN members.

8 Ways ASN Members Save

- 1** Members Save **\$175** Experimental Biology Registration Fee 
- 2** Members Save **\$560** Free Online Journal Access to AJCN, JN and AN 
- 3** Members Save **\$210** Print Journal Subscription to The American Journal of Clinical Nutrition 
- 4** Members Save **\$210** Print Subscription to The Journal of Nutrition 
- 5** Members Save **\$100** Advances & Controversies in Clinical Nutrition Registration Fee 
- 6** Members Save **\$75** Waived Manuscript Submission Fees 
- 7** Members Save **\$40** per page Discounted Page Charges 
- 8** Members Save **\$54** Print Subscription Rate for Nutrition Today 

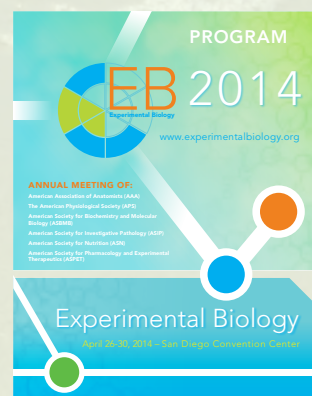
\$1,424 in Total Cost Savings for Members!

Welcome to the American Society for Nutrition's Scientific Sessions & Annual Meeting at Experimental Biology 2014.

By the numbers, the 2014 Scientific Sessions is shaping up to be an incredible meeting! With more than 30 scientific symposia, 4 award-winning lectures, 4 international forums, 12 opportunities for free professional development in the sponsored satellite programs, more than 8 exciting nutrition program tracks, and more than 2,000 original research presentations, we encourage you to check out as much as possible! All attendees are invited to take advantage of networking and social events in addition to the scientific program.

Getting Around ASN's Scientific Sessions at EB 2014

Please be sure to pick up the Experimental Biology 2014 Program and Program Addendum at the registration area in the San Diego Convention Center. The program includes a comprehensive listing of the oral presentations (pages 1–135); poster presentations (pages 147–345), special and ancillary functions (organized chronologically, pages 491–500; organized alphabetically, pages 501–510), and Exhibit Hall information (pages 422–487). The addendum contains program updates and errata.



For highlights of daily events and session recaps, be sure to pick up ASN's *Nutrition Notes Daily*. Published on Sunday, Monday and Tuesday, this newspaper is distributed at the locations highlighted on the following page.



STAYING CONNECTED

Visit ASN at the following locations throughout the meeting:

ASN Office and Member Services Center

San Diego Hilton Bayfront, Cobalt 502A

Hours: Saturday through Tuesday, 9:00 AM – 1:00 PM and 3:00 – 6:00 PM

Wednesday, 8:00 – 11:00 AM

Stop by the ASN Office and Member Services Center to check your membership status, join a Research Interest Section (RIS) and purchase a ticket to the Fellows, 50-Year Members and Past Presidents Luncheon.

ASN Booth and Bookstore

San Diego Convention Center, Exhibit Hall, Booth #301

Hours: Sunday through Tuesday, 9:00 AM – 4:00 PM

Get your ASN swag at the ASN Booth and Bookstore in the Exhibit Hall.

Here you can purchase *The Best of Clinical Nutrition* annual compendium.

ASN Member & Attendee Lounge

San Diego Convention Center, 30E

Saturday through Tuesday, 7:30 AM – 5:30 PM

Relax with your peers and discuss the exciting research being presented away from the hustle and bustle of the conference. Although Wi-Fi will not be available in the lounge, the Convention Center offers several hot spots.

Continuing Professional Education Credits

ASN (Provider #NS010) is accredited and approved by the Commission on Dietetic Registration (CDR) as a provider of Continuing Professional Education (CPE) programs for Registered Dietitians. Dietitians and dietetic technicians, registered should only claim credit commensurate with the extent of their participation in the activity. Certificates of Completion/Attendance will be provided after completion of an online evaluation that will be posted on scientificsessions.nutrition.org after the conference.



STAY CONNECTED AT EB 2014

@nutritionorg
Join us with #XBio hashtag

Conference Bloggers at
www.nutrition.org/blog

Video Coverage at
www.nutrition.org/youtube

Facebook at
www.nutrition.org/facebook

Download the EB 2014 iPhone App
in the App Store

Use the EB 2014 Itinerary Builder at
<http://experimentalbiology.org>

SPECIAL EVENTS

The annual meeting features Society-wide opportunities to connect and network with your colleagues and peers. Opportunities for attendees to connect include receptions, business meetings and more.

Volunteer Leadership Forum

Saturday, April 26, 11:00 AM

San Diego Convention Center, 33A

This forum is for current volunteers and those interested in serving, who wish to learn more about volunteers' roles within the Society. The forum will review volunteer responsibilities and provide light training. This event is at no additional cost to attendees.

First-Time Attendee and New Member Orientation

Organized by the Membership Committee

Saturday, April 26, 3:30 PM

San Diego Convention Center, 33B

This event is designed to assist first-time attendees in taking full advantage of the activities at EB 2014. The event is also designed to help new members learn more about ASN membership benefits and communities, and how to access ASN services. This event is at no additional cost to attendees.

Reception for the Membership and University Mixer

Saturday, April 26, 8:00 PM

San Diego Hilton Bayfront, Sapphire ABEF

It's a day at the beach! Enjoy the surf, sand, and a swinging good time in San Diego without leaving the hotel. This popular event for nutrition registrants will feature music, hors d'oeuvres and a cash bar. Some university departments host tables for alumni, faculty and students. This event is at no additional cost to ASN members and attendees.

Independent Annual Meeting Listening Session

Sunday, April 27, 5:00 PM

San Diego Convention Center, Room 33 A

Learn more and share your feedback regarding ASN's pilot initiative for a Scientific Sessions and Annual Meeting independent from EB. FAQs on this topic are also available at www.nutrition.org/meetings/independent.

Awards Ceremony

Sunday, April 27, 6:00 PM

San Diego Hilton Bayfront, Indigo DH

The ASN annual awards program, hosted by ASN and the ASN Foundation, recognizes the accomplishments of nutrition scientists from around the globe. Join us as we celebrate and recognize our 2014 award winners. This event is at no additional cost to attendees.

Fellows, 50-Year Members and Past Presidents Luncheon

Monday, April 28, 11:30 AM

San Diego Bayfront, Indigo 204

The Class of 2014 Fellows will be inducted – the highest honor that ASN bestows. In addition to celebrating the new class of Fellows, the event will also honor ASN's fifty-year members and past presidents. This event requires the purchase of a ticket (\$20); inquire at the ASN Office (Cobalt 502A).

Society Annual Business Meeting

Monday, April 28, 5:30 PM

San Diego Convention Center, 31

Join us for the 78th Annual Business Meeting. During this special event, you have the opportunity to hear from ASN leaders on the latest on ASN programs and initiatives.

SCIENTIFIC COUNCIL SESSIONS & EVENTS

Nutritional Sciences Council Business Meeting and Breakfast

Sat. 7:00 AM

San Diego Hilton Bayfront, Sapphire 400

Medical Nutrition Council Business Meeting

Mon. 12:45 PM

San Diego Convention Center, 33A

Global Nutrition Council Business Meeting, Poster Competition and the Kellogg Prize for International Nutrition Research Lecture

Mon. 6:45 PM

San Diego Hilton Bayfront, Indigo C

The Kellogg Prize for International Nutrition Research is supported by an unrestricted educational grant from the Kellogg Company. Lecturer Linda S. Adair, PhD will present "Advancing Knowledge in Global Maternal and Child Nutrition: The Value of Collaboration."

Global Nutrition Council Reception

Mon. 8:00 PM

San Diego Hilton Bayfront, Indigo 204



The American Society for Nutrition 2014 Presidential Symposium

Malnutrition and Inflammation:
Intimate Partners Burning Down the House
*Inflammation as an Adaptive Response
versus Self-destruction*

Sunday, April 27, 2014 • 10:30 AM

San Diego Convention Center • Ballroom 20 D

CHAIR

Gordon Jensen, MD, PhD,
President, American Society
for Nutrition

Professor and Head, Department of
Nutritional Sciences, Pennsylvania
State University
State College, PA



PRESENTATIONS

Novel Pro-Resolving n-3
Mediators and Mechanisms in
Inflammation

Charles N. Serhan, Ph.D., DSc
(hc), Director

Center for Experimental Therapeutics and
Reperfusion Injury

Brigham and Women's Hospital and The
Simon Gelman Professor of Anaesthesia
(Biochemistry & Molecular Pharmacology)
Harvard Medical School & Professor Oral
Medicine, Infection and Immunity HSDM
Boston, MA



Inflammatory Modulation of
Metabolism, Adipose Tissue and
its Transcriptome

Muredach P. Reilly, MBBCH, MSCE
Associate Professor of Medicine
University of Pennsylvania Perelman School
of Medicine
Philadelphia, PA



Dangers and Benefits of the
Cytokine Mediated Response
to Injury and Infection

Peter B. Soeters, MD, PhD
Emeritus Professor of Surgery
Maastricht University Medical Center
Maastricht, the Netherlands



RESEARCH INTEREST SECTIONS (RIS) MEETINGS & EVENTS

CARIG Annual Symposium

Fri. 1:00 PM

San Diego Convention Center, 29D

CARIG/VARIG Social and Poster Competition

Fri. 6:30 PM

San Diego Convention Center, 30A

RIS Chairs Luncheon

By Invitation Only

Sat. 12:00 PM

San Diego Hilton Bayfront, Cobalt 501C

Joint Reception and Poster Competition: Diet and Cancer & Nutritional Immunology

Sat. 4:00 PM

San Diego Hilton Bayfront, Sapphire I

Each Research Interest Section will hold an individual business meeting.

Joint Poster Competition: Community and Public Health Nutrition and Nutrition Education

Sat. 4:00 PM

San Diego Convention Center, 33C

Each Research Interest Section will hold an individual business meeting.

Nutrition Epidemiology Business Meeting, Poster Competition, and Mentoring Event

Sat. 4:30 PM

San Diego Hilton Bayfront, Sapphire H

Joint-Reception and Poster Competition:

Dietary Bioactive Components, Nutrient-Gene Interactions, and Vitamins and Minerals

Sat. 5:00 PM

San Diego Hilton Bayfront, Sapphire OP

Each Research Interest Section will hold an individual business meeting.

Nutrition Immunology Business Meeting

Sat. 5:00 PM

San Diego Hilton Bayfront, Aqua 311A

Diet and Cancer Business Meeting

Sat. 5:00 PM

San Diego Hilton Bayfront, Sapphire 402

Community and Public Health Nutrition Business Meeting and Hot Topic Session

Sat. 5:15 PM

San Diego Convention Center, 32B

Energy and Macronutrient Metabolism Abstract Competition, Hot Topics and Current Events, and Reception

Sat. 5:30 PM

San Diego Hilton Bayfront, Sapphire 400

Nutrition Education Business Meeting and Mentoring Event

Sat. 6:45 PM

San Diego Convention Center, 33B

RESEARCH INTEREST SECTIONS (RIS) MEETINGS & EVENTS

Nutrient-Gene Interactions Business Meeting

Sat. 7:00 PM

San Diego Hilton Bayfront, Sapphire 402

Vitamins and Minerals RIS Business Meeting

Sat. 7:00 PM

San Diego Hilton Bayfront, Sapphire D

Lactation and ISRHML Business Meeting and Luncheon

Mon. 12:30 PM

San Diego Convention Center, 33B

Aging and Chronic Disease Student Poster Competition and Business Meeting

Mon. 7:00 AM

San Diego Convention Center, 33C

Experimental Animal Nutrition Poster Competition and Business Meeting

Mon. 7:00 PM

San Diego Hilton Bayfront, Indigo 202

Obesity Business Meeting and Student Research Poster Competition

Sun. 12:00 PM

San Diego Convention Center, 33B

Dietary Bioactive Components Business Meeting and Hot Topics Seminar

Tues. 10:30 AM

San Diego Convention Center, 29C

Nutrition Translation Business Meeting and Poster Competition

Tues. 12:30 PM

San Diego Convention Center, 33C

Join Us at an International Forum

Did you know that about 30% of abstracts submitted to ASN's Scientific Sessions and about a quarter of attendees come from outside the U.S.? This year's Scientific Sessions at EB features a new program format—the International Forum. These sessions provide a forum for international nutrition societies to showcase “hot” or emerging areas of research being performed in their country and discuss topics of interest specific to their country or region with nutrition scientists from around the world.

International Forum—Brazil

Monday, April 28

8:00 AM

Room 29 AB

International Forum—China

Monday, April 28

10:30 AM

Room 29 A

International Forum—ICAN/ South America

Monday, April 28

3:00 PM

Room 32B

International Forum—Japan

Tuesday, April 29

3:00 PM

Room 29 AB

POLICY-RELATED HIGHLIGHTS

Sunday, April 27, 2014

Posters:

Nutrition Policy; Nutrition Translation: Nutrition Science Translation for Policy, Practice & Consumers; Community and Public Health Nutrition: Food Environment & Food Systems

8:00am-5:00pm

Exhibit Halls A-D, San Diego Convention Center

Symposium:

Not Everything That Counts Can be Counted & Not Everything That Can be Counted Counts: How Should We Collect Dietary Data?

8:00-10:00am

Room 31ABC, San Diego Convention Center

Listening Session:

USDA National Institute of Food and Agriculture (NIFA) Funding Opportunities in Nutrition and Food Science

12:45-2:15pm

Room 29AB, San Diego Convention Center

Update:

Food and Nutrition Board—Nutrition and Population Health: Are Changes on the Horizon?

12:45-2:45pm

Room 31ABC, San Diego Convention Center

Community and Public Health Nutrition RIS Minisymposium: Health and Food Systems Approaches in Community and Public Health

3:00-5:00pm

Room 30D, San Diego Convention Center

Monday, April 28, 2014

Symposium:

The Future of Nutrition Research at NIH

3:00-5:00pm

Room 29AB, San Diego Convention Center

Tuesday, April 29, 2014

Symposium:

Beyond Blood Pressure: New Paradigms in Sodium Intake Reduction and Health Outcomes

8:00-10:00am

Room 31ABC, San Diego Convention Center

Public Policy Nutrition

Minisymposium:

Nutrition Research and Surveillance to Improve the Health of the US Population

10:30am-12:30pm

Room 29D, San Diego Convention Center

Community and Public Health RIS

Nutrition Minisymposium: Food Environment

3:00-5:00pm

Room 30D, San Diego Convention Center

Nutrition Translation

Minisymposium:

Food Related Behaviors and Implications for Food Policy

3:00-5:00pm

Room 29D, San Diego Convention Center

STUDENTS HIGHLIGHTS

Clinical Emerging Leaders Competition

Supported by the Medical Nutrition Council (MNC)

Saturday, April 26

8:00-9:30 a.m.

Convention Center, Room 29 A/B

Young Minority Investigator Competition

Organized by the Minority Affairs Committee and

Supported by DSM Nutritional Products

Saturday, April 26

12:30-2:00 p.m.

Convention Center, Room 29 A/B

Graduate Student Research Award Competition

Supported by the Nutritional Sciences Council (NSC)

Saturday, April 26

2:30-5:00 p.m.

Convention Center, Room 29 A/B

Orientation for First-Time Attendees and New Members

Organized by the Membership Committee

Saturday, April 26

3:30-4:30 p.m.

Convention Center, Room 33 B

Member Reception & University Mixer

Saturday, April 26

8:00-10:00 p.m.

San Diego Hilton Bayfront, Sapphire ABEF

Get your EB 2014 experience off to a fun and classically California start at this beach party with sand buckets and surfboards! Visit our special tables for networking hosted by universities, ASN member groups and partners.

Graduate Student Breakfast and SIG Travel Awardees Poster Competition

Organized by the Student Interest Group (SIG) and

Supported by the Dairy Research Institute

Sunday, April 27

6:45-8:00 a.m.

San Diego Hilton Bayfront, Sapphire C/D

ASN SIG Special Session: Best Practices for Your Research Toolkit

Supported by PepsiCo

Sunday, April 27

8:00-10:00 a.m.

Convention Center, Room 29 A/B

Meet the ASN Journal Editors

Sunday, April 27

12:45-2:45 p.m.

Convention Center, Room 33 A

Students "Meet the Fellows"

Monday, April 28

10:30-11:30 a.m.

San Diego Hilton Bayfront, Indigo 202

Recognition as a Fellow of the Society is the highest honor ASN bestows. Network with Fellows and learn about their distinguished careers in the field of nutrition.

ASN Speed Mentoring for Students

Hosted by Young Professional & Student Interest Groups

Monday, April 28

7:30-9:30 p.m.

Hilton San Diego Bayfront, Cobalt 500

This event requires advance enrollment, but seats may become available for on-site check-in.

EB 2014 Young Experimental Scientists (YES) Mixer

Monday, April 28

9:00-11:00 p.m.

Marriott Marquis San Diego, Salon 3

ASN MARC Travel Awardees Poster Session and Networking Breakfast

Organized by the Minority Affairs Committee and

Supported by DSM Nutritional Products

Tuesday, April 29

7:00-8:30 a.m.

Convention Center, Room 33 C

FASEB Career Resources

Saturday, April 26-Tuesday, April 29

Convention Center, Exhibit Hall, Career Center

Get ahead in your career with résumé critiques, career counseling and workshops like the following:

- Networking: A Required Life Skill
- Developing & Writing the Doctoral Dissertation Proposal
- Goal Setting, Prioritizing, Time & Stress Management

POSTDOCS & YOUNG PROFESSIONALS HIGHLIGHTS

Postdoctoral Research Awards Competition

*Organized by Young Professional Interest Group (YPIG)
and Supported by DuPont Nutrition and Health*

Saturday, April 26

10:00 a.m.-12:00 p.m.

Convention Center, Room 29 A/B

Six finalists will present.

Member Reception & University Mixer

Saturday, April 26

8:00-10:00 p.m.

San Diego Hilton Bayfront, Sapphire Ballroom ABEF

Get your EB 2014 experience off to a fun and classically California start at this beach party with sand buckets and surfboards! Visit our special tables for networking hosted by universities, ASN member groups and partners.

Meet the ASN Journal Editors

Sunday, April 27

12:45-2:45 p.m.

Convention Center, Room 33 A

ASN Awards Ceremony

Sunday, April 27

6:00-7:30 p.m.

San Diego Hilton Bayfront, Indigo D/H

This Ceremony recognizes some of the most noted scientists and professionals in our field for outstanding research and achievements, including Young Investigator awardees and the Postdoc Award Grand Prize.

Minority Affairs Committee Forum Navigating the Tenure and Promotion Process for Young and Early-Stage Investigators and Minorities in Nutrition

Monday, April 28

4:15-5:15 p.m.

San Diego Hilton Bayfront, Cobalt 502 B

ASN Business Meeting

Monday, April 28

5:30-7:00 p.m.

Convention Center, Room 31

ASN Speed Mentoring for Students

Hosted by Young Professional & Student Interest Groups

Monday, April 28

7:30-9:30 p.m.

Hilton San Diego Bayfront, Cobalt 500

This event requires advance enrollment, but extra YP mentors are welcome.

ASN Postdoc and Young Professional Networking Event

Organized by YPIG

Monday, April 28

9:30-10:30 pm

San Diego Hilton Bayfront, Cobalt 501 C

This reception is open to all postdoctoral fellows, medical residents and young professional members of ASN.

EB 2014 Young Experimental Scientists (YES) Mixer

Monday, April 28

9:00-11:00 p.m.

Marriott Marquis San Diego, Salon 3

ASN (YPIG) Special Session Successful Scientists— What's the Winning Formula

Supported by The Coca-Cola Company

Tuesday, April 29

8:00-10:00 a.m.

Convention Center, Room 29 A/B

FASEB Career Resources

Saturday, April 26-Tuesday, April 29

Convention & Exhibition Center, Exhibit Hall, Career Center

There are a number of additional career resources and programs available for postdocs & young professionals at EB 2014. Get ahead in your career with résumé critiques, career counseling and workshops like the following:

- Global Interview Skills
- The Strategic Postdoc: How to Find & Leverage Your Postdoc Experience
- NIH K Awards Overview



PROGRAM TRACKS

This year's scientific symposia integrate basic, clinical, population and translational science organized around the following program tracks:

Pediatric Nutrition and Early Development

- It's Alive: Microbes and Cells in Human Milk and their Potential Benefits to Mother and Infant
- Human Milk Oligosaccharides

Biochemical, Molecular and Genetic Mechanisms

- Cellular Responses to Nutrients and Development of Disease

Diet and Non-Communicable Diseases

- Circulating Vitamin D and Risk of Breast and Colorectal Cancer
- Beyond Blood Pressure: New Paradigms in Sodium Intake Reduction and Health Outcomes
- Modifying Eating Behavior: Novel Approaches for Reducing Body Weight
- Applications of Complex Systems Science in Obesity and Non-Communicable Chronic Disease Research

Human Nutrition and Metabolism

- Energy Drinks: Current Knowledge and Critical Research Gaps
- The Presidential Symposium. Malnutrition and Inflammation: Intimate Partners
- Dietary Whole Grain-Microbiota Interactions
- Neurocognition: The Food-Brain Connection
- Optimizing Protein Quantity and Distribution to Improve Health Outcomes
- Research Advances and Considerations for Investigating the Human Diet, Nutrient Utilization and Microbiota Interface Across the Life Course

- The Science of Cocoa Flavanols: Bioavailability, Emerging Evidence and Proposed Mechanisms

Global and Public Health Nutrition Fortification and Health: Opportunities and Challenges

- Are Biofortified Staple Food Crops Improving Vitamin A and Iron Status in Women and Children?
- International Breast Cancer and Nutrition: A Model for Research, Training and Policy in Diet, Epigenetics and Chronic Disease Prevention
- Sustainable Diets for Healthy People, Healthy Planet

Research Methods and Funding

- Dietary Patterns Methods Project: Systematic Analyses of Index-Based Dietary Patterns and the Associations with Mortality
- Unscientific Beliefs about Scientific Topics in Nutrition
- Novel Mathematical Models for Investigating Topics in Obesity
- Use of Metabolomics in Population-Based Research
- How Should We Collect Dietary Data for Research?

Education Track/Professional Development

- Best Practices for Your Research Toolkit
- Nutrition Competencies in Health Professionals' Education and Training: A New Paradigm
- The Future of Nutrition Research at NIH
- Successful Scientist: What's the Winning Formula?
- Historical Impact of Nutritional Epidemiology

ASN PROGRAM AT-A-GLANCE

SATURDAY, APRIL 26, 2014				SUNDAY, APRIL 27, 2014			
	8:00 – 10:00 AM	10:30 AM – 12:30 PM	12:45 – 2:45 PM	3:00 – 5:00 PM	8:00 – 10:00 AM	10:30 AM – 12:30 PM	3:00 – 5:00 PM
Ballroom 20 D	Fortification and Health: Opportunities and Challenges K. Wiemer and J. Dwyer		10:30 AM – 12:30 PM	Energy Drinks: Current Knowledge and Critical Research Gaps B.C. Sorkin and P.M. Coates	Nutri-Metabolomics N. Moustaid-Moussa and F. Assadi-Porter	Presidential Symposium: Malnutrition and Inflammation: Intimate Partners G. Jensen, <i>ASN President</i>	Unscientific Beliefs About Scientific Topics in Nutrition D.B. Allison and A.W. Brown
	Circulating Vitamin D and Risk of Breast and Colorectal Cancer S. Smith-Warner and R. Ziegler	Dietary Patterns Methods Project J. Reedy		Insights and Perspectives on Dietary Modifications to Reduce the Risk of CVD B. Bradley and D. Baer	How Should we Collect Dietary Data for Research? R. Bailey and C. Zizza	*12:45 – 2:45 PM* Food and Nutrition Board Update A. Yaktine S. Murphy	Are Biofortified Staple Food Crops Improving Vitamin A and Iron Status in Women and Children? J.P. Peña-Rosas and F. de Moura
Education Track Rm. 29AB	8:00 AM – 9:30AM Clinical Emerging Leaders Award Competition	10:00 AM – 12:00 PM The Postdoctoral Research Award Competition	12:30 – 2:00 PM ASN Young Minority Investigator Oral Competition	2:30 – 5:00 PM Graduate Student Research Award Competition	Best Practices for Your Research Toolkit R.A. Creasy	*12:45 – 2:45 PM* USDA-NIFA Funding Opportunities D. Chester and J. Williams	Nutrition Competencies in Health Professionals' Education and Training: A New Paradigm P.M. Kris-Etherton and E. Saltzman
32B					Medical Nutrition: Interventions for the Treatment and Prevention of Nutrition-Related Diseases		Nutrition Epi and MAC: Epidemiologic Methods in Examining Health Outcomes in Diverse Populations
32A			PhenHRIG: Phenolic Compounds and Human Cognitive Function: Food for Thought		Nutrition Education and Knowledge of Medical Students and Practicing Clinicians		Determinants of Lactogenesis, Duration and Other Indicators of Lactation Success
30D		Nutritional Epi: Innovation and Validation of Dietary Assessment Tools and Their Applications			Global Nutrition: Infant & Young Child Feeding		Health and Food Systems Approaches in Community and Public Health
30C		Obesity: Physical Activity and Chronic Disease			EMM: Diet and/or Exercise Regulation of Food Intake		EMM: Obesity and the Metabolic Syndrome
30B		Lactation: Bioactive Compounds and Other Milk Constituents			Effects of Dietary Bioactive Components on Experimental Models of Chronic Disease Risk		Antioxidant and Anti-inflammatory Effects of Dietary Bioactive Components
30A		Carotenoids, Retinoids and Health			Vitamins and Minerals: Zinc and Iron		Vitamins and Minerals: B Vitamins and One-Carbon Metabolism
29D				Obesity: Diet, Behavior, Devices and Surgery	Diet and Cancer: Animal Studies		Diet and Cancer: Clinical and Human Studies
29C		Medical Nutrition: Nutrition and Inflammation			Aging: Nutrition and Cognition Across the Lifespan		Animal Research Models of Fetal Programming and Neonatal Development

All rooms listed are in the Convention Center unless otherwise noted

Sunday Poster Sessions	Monday Poster Sessions	Tuesday Poster Sessions
<ul style="list-style-type: none"> Global Nutrition: Behavioral and Brain Function Global Nutrition: Child Growth/ Body Composition Global Nutrition: Dual Burden/Chronic Diseases Lactation: Biology of Milk Production and Secretion Lactation: Bioactive Compounds and other Milk Constituents Community and Public Health Nutrition: Community and Public Health Nutrition Interventions Nutrition Education: Evidence-Based Nutrition Education: Development, Testing, and Evaluation Nutrition Education: Nutrition Education and Behavior Change Nutrition Education: Nutrition Education in the Clinical Setting Nutrition Epidemiology: Nutrition and Chronic Disease Epidemiology Aging: Nutrition and Cognition Across the Lifespan (Co-sponsor: Nutritional Epidemiology RIS) Nutrition Trans: Nutrition Science Translation for Policy, Practice and Consumers Nutrition Trans: Food Related Behaviors and Implications for Food Policy Nutrition Policy Sports Nutrition: Sports Nutrition Sports Nutrition: Dietary Supplements and Human Performance Medical Nutrition: Personalized Nutrition Medical Nutrition: Prenatal Nutrient Programming in Humans Medical Nutrition: Nutrition and the Microbiome Nutrition Immunology: Nutritional Immunology Nutrition Immunology: Nutrition, Infection and Immunity Energy and Macronutrient Metabolism: Energy Balance, Macronutrients and Weight Management Energy and Macronutrient Metabolism: Obesity and the Metabolic Syndrome (Co-sponsor: Obesity RIS) Energy and Macronutrient Metabolism: Dietary Factors Affecting Lipid Metabolism Energy and Macronutrient Metabolism: Metabolic Phenotyping, Metabolomics and Biomarkers Diet and Cancer: Molecular Targets CARIG: Bioavailability and Metabolism of Carotenoids and Vitamin A CARIG: Biofortification of Staple Crops with Micronutrients Dietary Bioactive Components Dietary Bioactive Components of Medicinal, Functional and Whole Foods (including Probiotics and Fermented Foods) 	<ul style="list-style-type: none"> Global Nutrition: Micronutrients Community and Public Health Nutrition: Food Security and Its Connections to Nutrition and Health Community and Public Health Nutrition: Nutrition and Health Promotion in Diverse Populations Nutrition Education: Culturally Sensitive Nutrition Education Interventions in Diverse Populations Nutrition Education: Childhood Obesity Prevention Nutrition Epidemiology: Research with Dietary Supplements and Bioactive Components Nutrition Epidemiology: Epidemiological Research Addressing Diet and Health Outcomes Obesity: Diet and Behavior Obesity: Devices, Medications and Surgery Innovative Applications and Technologies in Nutrition and Food Science Animal Research Models for Macronutrient Metabolism Animal Research Models Investigating Nutrition and Inflammation Animal Research Models in Intestinal Physiology and Digestive Function Nutrient-Gene Interactions: Nutrient-Gene Interactions: Nutritional Regulation of Epigenetics Nutrient-Gene Interactions: Nutrient-Gene Interactions - Nutrition and the Genome Nutrient-Gene Interactions: Nutrient-Gene Interactions in Obesity and Inflammation Energy and Macronutrient Metabolism: Protein and Amino Acid Metabolism Energy and Macronutrient Metabolism: Lipid and Fatty Acid Metabolism and Transport Energy and Macronutrient Metabolism: Energy and Macronutrient Metabolism and the Gut Energy and Macronutrient Metabolism: Protein Intake and Health Implications Diet and Cancer: Animal Studies Diet and Cancer: Clinical and Human Studies Vitamins and Minerals: Selenium Vitamins and Minerals: B Vitamins and One-Carbon Metabolism Vitamins and Minerals: Micronutrient Interventions Dietary Bioactive Components: Effects of Dietary Bioactive Components on Experimental Models of Chronic Disease Risk Dietary Bioactive Components: Antioxidant and Anti-inflammatory Effects of Dietary Bioactive Components Dietary Bioactive Components: Cardiovascular Effects of Dietary Bioactive Components 	<ul style="list-style-type: none"> Global Nutrition: Food Security Global Nutrition: Infant and Young Child Feeding Lactation: Determinants of Lactogenesis, Lactation Duration and Other Indicators of Lactation Success Lactation: Effects of Lactation/Breastfeeding on the Recipient Infant and/or Lactating Mother Dairy and Yogurt: Health and Nutrition Effects Community and Public Health Nutrition: Food Environment and Food Systems Nutrition Education and Teaching Nutrition Education: Developing Healthy Eating and Physical Activity Behaviors Across the Lifespan Nutrition Epidemiology: Innovation and Validation of Dietary Assessment Tools and Their Applications Nutrition Epidemiology: Advancing Nutritional Epidemiology with Public Use and Commercial Data Sets Nutrition Epidemiology: Assessment of Child and Adolescent Nutritional Status, Growth, and Obesity Aging: Nutrition Interventions for Risk Factor Modification in Chronic Disease Aging: Nutritional Assessment and Status in Older Populations Aging: Nutrition, Physical Performance & Bone Health Obesity: Physical Activity Obesity: Chronic Diseases Obesity: Insulin Resistance Obesity: Body Composition Animal Research Models in Nutrition and Musculoskeletal Development Animal Research Models of Fetal Programming Medical Nutrition: Nutrition and Inflammation Medical Nutrition: Interventions for the Treatment and Prevention of Nutrition-Related Diseases Nutrient-Gene Interactions: Nutrition and (Stem) Cell Differentiation Nutrient-Gene Interactions: Nutrient Control of Proteomics and Metabolomics Nutrient-Gene Interactions: Nutrient-Gene Interactions in Metabolic, Autoimmune and Neurodegenerative Diseases Energy and Macronutrient Metabolism: Carbohydrate Metabolism Energy and Macronutrient Metabolism: Diet and/or Exercise Regulation of Food Intake (Co-sponsor: Obesity RIS) Vitamins and Minerals: Water and Fat Soluble Vitamins and Chronic Disease Vitamins and Minerals: Micronutrient Bioavailability and Antioxidant Function Vitamins and Minerals: Zinc Dietary Bioactive Components: Bioavailability, Metabolism and Biomarkers of Dietary Bioactive Components Dietary Bioactive Components: Mechanisms of Action and Molecular Targets of Dietary Bioactive Components

Posters will be displayed 7:30 AM – 6:00 PM Sunday and Monday and 7:30 AM – 4:00PM on Tuesday. Authors MUST be present by their boards during their designated time between 12:45 PM – 2:45 PM. Late Breaking posters will be displayed Wednesday, April 30, 2014 starting at 8:30 AM. Authors MUST be present by their boards 10:00 AM – 11:00 AM.

Late Breaking Posters will include: Variability in Responses to Diet and Food, Nutrition on Healthy Growth, Development and Reproduction; Disease Prevention, Progression and Treatment, Nutrition-Related Behaviors, Food Supply and Environment, Vitamins, Minerals, and Bioactives, Energy and Nutrient Metabolism and Community, Public Health and Global Nutrition.

OFFICIAL SCIENTIFIC PROGRAM

Saturday, April 26, 2014

8:00 – 10:00 AM

Circulating Vitamin D and Risk of Breast and Colorectal Cancer: Results from the International Vitamin D Pooling Project

31 ABC

Circulating vitamin D and risk of breast cancer, Stephanie Smith-Warner, PhD, Boston, MA

Circulating vitamin D and risk of colorectal cancer, Marjorie McCullough, ScD, Atlanta, GA

From epidemiology to public health guidance: Calibration and standardization of vitamin D status in an international pooling consortium of 21 cohorts, Regina Ziegler, PhD, MPH, Bethesda, MD

Is the link between vitamin D and cancer causal? A review of molecular mechanisms and their implications, James Fleet, West Lafayette, IN

8:30 AM – 12:30 PM

ILSI/ASN Scientific Session

Honoring John Milner

Fortification and Health: Opportunities and Challenges

Ballroom 20 D

Welcome, Johanna Dwyer, DSc, RD, Bethesda, MD

Honoring John Milner, David Allison PhD, Birmingham, AL

Session introduction, Kathy Wiemer, MS, RD and Kevin Miller, PhD, Minneapolis, MN

Fortification and health of the nation: What it can and can't do, Janet King, PhD, RD, Oakland, CA

U.S. experiences in food fortification, Christine Taylor, PhD, Bethesda, MD

Global issues in fortification: What works, what doesn't? Omar Dary, PhD, Bethesda, MD

The impact of fortification in the U.S. diet: A case study in children, Regan Bailey, PhD, RD, Bethesda, MD

Discretionary fortification, Valerie Tarasuk, PhD, Toronto, Canada

Technological opportunities and challenges in fortification, Martin Philbert, PhD, Ann Arbor, MI

Benefit-risk analysis: What is it and why does it matter to fortification? Carl Keen, PhD, Davis, CA

Future directions and panel discussion, Johanna Dwyer, DSc, RD, Bethesda, MD

10:30 AM – 12:30 PM

Dietary Patterns Methods Project: Systematic Analyses of Index-Based Dietary Patterns and the Associations with Mortality

31 ABC

Introduction and overview to the Dietary Patterns Methods Project, Jill Reedy, PhD, MPH, RD, Bethesda, MD

NIH-AARP diet and health study: A comparison of diet quality indices with mortality outcomes in older US adults, Jill Reedy, PhD, MPH, RD, Bethesda, MD

Women's Health Initiative: Does diet quality influence death from diet-related chronic diseases in postmenopausal women? Stephanie George, PhD, MPH, MA, Bethesda, MD

The Multiethnic Cohort: Analyzing dietary patterns and mortality in diverse ethnic populations, Carol Boushey, PhD, MPH, RD, Honolulu, HI

Synthesis of findings across cohorts: Relevance for dietary guidance, Angela Liese, PhD, MPH, Columbia, SC

Moderated discussion, Susan M. Krebs-Smith, PhD, MPH, Bethesda, MD

3:00 – 5:00 PM

Energy Drinks: Current Knowledge and Critical Research Gaps

Ballroom 20 D

Caffeine intake in US children and adolescents, Namanjeet Ahluwalia, PhD, DSc, Hyattsville, MD

Disparities in energy product use and health outcomes: Potential mediators, Michael Grandner, PhD, Philadelphia, PA

Physiological, psychological, and behavioral effects of caffeine in children and adolescents, Jennifer Temple, PhD, Buffalo, NY

Energy drinks mixed with alcohol: What are the risks? Cecile Marczynski, PhD, Highland Heights, KY

Insights and Perspectives on Dietary Modifications to Reduce the Risk of CVD

31 ABC

Introduction, Beth Bradley, PhD, Rosemont, IL

Current recommendations for a heart-healthy diet, Penny M. Kris-Etherton, PhD, RD, University Park, PA

Is it the food or the nutrient? What makes heart-healthy diets work? Andrew Mente, PhD, Hamilton, OH

The heart healthy switch: Benefits and consequences of macro-nutrient replacement in the diet, Marcia de Oliveira Otto, Boston, MA

Where do we go from here? Research to reduce the burden of CVD, David J. Baer, PhD, Beltsville, MD

Sunday, April 27, 2014

8:00 – 10:00 AM

Nutri-Metabolomics

Ballroom 20 D

Bioinformatics and systems biology of the mammalian metabolome, Shankar Subramaniam, PhD, La Jolla, CA

Metabolomics evidence of perturbations in glucose metabolism and diminished lipid oxidation in women with polycystic ovary syndrome (PCOS), Fariba Assadi-Porter, PhD, Lubbock, TX

Metabolomics reveals that hepatic Stearoyl CoA desaturase-1 deficiency alters macronutrient metabolism and related pathways, James Ntambi, PhD, Madison, WI

Metabolic health, host-derived and xeno-metabolite profiles, Sean Adams, PhD, Davis, CA

Not Everything That Counts Can be Counted and Not Everything That Can be Counted Counts: How Should We Collect Dietary Data for Research?

31 ABC

Why dietary data are not ready for primetime, David Allison, PhD, Birmingham, AL

Advances in dietary assessment, Amy Subar, PhD, MPH, RD, Rockville, MD

Importance of dietary data in setting national policy, Elizabeth Yetley, PhD, Bethesda, MD

The future of measurement: Where are we going and what is needed? Laurence Freedman, Tel Hashomer, Israel

Best Practices for Your Research Toolkit

29 AB

Developing your research topic as a graduate student, Barbara DeRatt, MS, Gainesville, FL

Developing your research as a postdoc and young investigator, Victoria Vieira-Potter, PhD, Columbia, MO

Funding your research, Mickey Rubin, PhD, Rosemont, IL

Disseminating your research, Earl H. Harrison, PhD, Columbus, OH

10:30 AM – 12:30 PM

The Presidential Symposium: Malnutrition and Inflammation: Intimate Partners Burning Down the House: Inflammation as an Adaptive Response versus Self-destruction

Ballroom 20 D

Welcome, Gordon L. Jensen, MD, PhD, ASN President, State College, PA

Novel pro-resolving n-3 mediators and mechanisms in inflammation, Charles N. Serhan, PhD, DSc (hc), Harvard Medical School, Boston, MA

Inflammatory modulation of metabolism, adipose tissue and its transcriptome, Muredach P. Reilly, MBBCH, MSCE, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

Dangers and benefits of the cytokine mediated response to injury and infection, Peter Soeters, MD, PhD, Maastricht University, The Netherlands

12:45 – 2:45 PM

Food and Nutrition Board Update—Nutrition and Population Health: Are Changes on the Horizon?

31 ABC

The Food and Nutrition Board in 2014: Adapting to a Changing Landscape, Suzanne P. Murphy, Honolulu, HI

Sodium Intake in Populations: New Evidence on Health Outcomes, Cheryl A.M. Andersen, La Jolla, CA

DRI Nutrient Reviews—Is There Evidence for an Update? Connie Weaver, West Lafayette, IN

Obesity Prevention—Are We Making Progress? Lawrence Green, San Francisco, CA

USDA- National Institute of Food and Agriculture Funding Opportunities

29 AB

NIFA overview, Amanda Ewing, MS, USDA-NIFA, National Institute of Food and Agriculture, Washington, DC

NIFA funding: What's available? Deirdre N. Chester, PhD, RD, USDA-NIFA, Washington, DC

AFRI funding: Tips for success, Jodi Williams, PhD, USDA-NIFA, Washington, DC

OFFICIAL SCIENTIFIC PROGRAM

3:00 – 5:00 PM

Unscientific Beliefs about Scientific Topics in Nutrition

Ballroom 20 D

Introduction, Mary MacVean, *Los Angeles Times*

Is everything we eat associated with cancer? A systematic cookbook review, John Ioannidis, MD, DSc, Stanford, CA

Distortion of nutrition research: Reporting practices that may perpetuate beliefs beyond the scientific evidence, Andrew Brown, PhD, Birmingham, AL

Non-financial biases apparent in nutrition research: Recent findings, Mark Cope, PhD, St. Louis, MO

Necessary strategies to improve the reliability of reported nutrition science, Dennis Bier, MD, Houston, TX

Are Biofortified Staple Food Crops Improving Vitamin A and Iron Status in Women and Children?

31 ABC

Impact of provitamin A biofortified maize on vitamin A status and anemia in Zambian children, Amanda Palmer, PhD, Baltimore, MD

Efficacy of biofortified yellow cassava in improving vitamin A status in Kenyan school children, Elise Talsma, PhD, Wageningen, The Netherlands

Effects of consuming biofortified staple food crops on iron status: Meta-analysis of women and children from four countries, Julia Finkelstein, MPH, SM ScD, Ithaca, NY

Changes in physical performance in response to iron-biofortified pearl millet and beans, Jere D. Haas, PhD, Ithaca, NY

Changes in cognitive performance and associated brain dynamics in response to iron-biofortified pearl millet and beans, Laura E. Murray-Kolb, PhD, University Park, PA

An introduction to forthcoming effectiveness studies to measure the nutrition impact and cost-effectiveness of biofortification interventions, Ekin Birol, Washington, DC

Nutrition Competencies in Health Professionals' Education and Training: A New Paradigm

29 AB

Inter-professional competencies in nutrition and physical activity for healthcare professionals, Sharon Akabas, PhD, New York, NY and Douglas Seidner, MD, Nashville, TN

Ongoing ASN activities in nutrition education for healthcare professionals, Carine Lenders, MD, Boston, MA

The need for nutrition education programme that has been developed for tomorrow's doctors in the United

Kingdom: Program development and implementation, Sumantra Ray, MBBS, MPH, MD, Cambridge, UK

The need for nutrition education programme that has been developed for medical students in the United Kingdom:

Program evaluation and policy impact, Celia Laur, MSc, Cambridge, UK and Pauline Douglas, RD, Ulster, Ireland

Policy advocacy for nutrition education for healthcare professionals, Matthew Levy, MD, MPH, Washington, DC

Research opportunities in the area of healthcare professional nutrition education, Charlotte Pratt, PhD, RD, Bethesda, MD

Panel Discussion

Monday, April 28, 2014

8:00 AM – 12:30 PM

Neurocognition: The Food-Brain Connection

Ballroom 20 D

Neurocognition: The food-brain connection, James O. Hill, PhD, Aurora, CO

Current perspectives, controversies and misunderstandings of terminology, methodology, and applications, Kent Berridge, PhD, Ann Arbor, MI

Obesity and the brain: Is evidence sufficient that human food addiction exists? Nicole Avena, PhD, New York, NY

Obesity and the brain: How convincing is the addiction model? His ham Ziauddeen, PhD, Cambridge, UK

The benefits and limitations of current neuroimaging methods in the study of food reward and control of food intake, Miguel Alonso-Alonso, PhD, Boston, MA

Answering the essential questions: The agenda going forward, David Allison, PhD, Birmingham, AL

Town Hall: The Agenda for Future Research

8:00 – 10:00 AM

Dietary Whole Grain-Microbiota Interactions: Insights into Mechanisms for Human Health

31 ABC

Whole grains and markers of subclinical inflammation, Michael Lefevre, PhD, North Logan, UT

Microbial degradation and impact on short-chain fatty acids of whole grain complex carbohydrates in the gut, Knud Erik Bach Knudsen, PhD, Tjele, Denmark

Role of resistant starch in improving gut health and metabolic syndrome, Michael Keenan, PhD, Baton Rouge, LA

The role of the gastrointestinal microbiota in the health benefits of whole grains, Jens Walter, PhD, Edmonton, Canada

Brazil International Forum

29 AB

State of art of nutrition research in Brazil, Gilberto Kac, PhD, Rio de Janeiro, Brazil

Bioactive compounds of Brazilian regional fruits for treatment of metabolic diseases, William Festuccia, PhD, Sao Paulo, Brazil

Linear catch-up and epigenetic implications, Maria Albuquerque, PhD, Sao Paulo, Brazil

VDRG polymorphisms interact with calcium plus vitamin D supplementation during pregnancy to affect bone mass of lactating adolescent mothers, Paula Normando, PhD, Rio de Janeiro, Brazil

Effects of aerobic or resistance exercise training in the management of genetic predisposition to obesity, Michelle Sartori, MD, Sao Paulo, Brazil

10:30 AM – 12:30 PM

International Breast Cancer and Nutrition: A Model for Research, Training and Policy in Diet, Epigenetics and Chronic Disease Prevention

31 ABC

Introduction, Connie Weaver, PhD, West Lafayette, IN

Diet and breast cancer: New approaches are necessary, Ailsa Welch, DPHIL, Norwich, UK

Diet and breast cancer in the Middle East: A first look, Nahla Hwalla, PhD, Beirut, Lebanon

Nutritional effects on breast cell biology: New research tools and risks-on-chips models, Sophie Lelièvre, DVM, PhD, West Lafayette, IN

Obesity and energy metabolism in breast cancer progression using molecular tools, Dorothy Teegarden, PhD, West Lafayette, IN

China International Forum

Current nutrition research status in China and CNS in the next 3-5 years, Yuexin Yang, PhD, National Institute of Nutrition and Food Safety, China

Phytochemicals: Anthocyanin, Wenhua Ling, PhD, Sun Yat-Sen University, China

Frontiers of basic molecular nutrition research, Fudi Wang, PhD, Zhejiang University, China

Research on the nutritional value of peony oil from China, Yucai Li, PhD, Chinese Society for Forestry Economics, China

1:45 – 2:45 PM

E.V. McCollum Lecture

Meeting Nutrient Needs During the First 1,000 Days: A Global Challenge but a Wise Investment

Ballroom 20 D

Kathryn G. Dewey, PhD

Distinguished Professor, Department of Nutrition
Director, Program in International and Community Nutrition
University of California - Davis

3:00 – 5:00 PM

Optimizing Protein Quantity and Distribution to Improve Health Outcomes

Ballroom 20 D

Protein and dietary guidance (then and now), Wayne Campbell, PhD, West Lafayette, IN

The effects of protein-rich meals on appetite control, satiety, and body weight management, Heather Leidy, PhD, Columbia, MO

Protein-related improvements in metabolic function, particularly concerning cardiovascular health, Donald Layman, PhD, Urbana, IL

The role of dietary protein in healthy aging: The prevention of sarcopenia, Doug Paddon-Jones, PhD, Galveston, TX

Novel Mathematical Models for Investigating Topics in Obesity

31 ABC

Propagation of obesity across generations: The roles of differential realized fertility and assortative mating by body mass index, John Dawson, PhD, Birmingham, AL

Mathematical models for predicting individual weight loss, Diana Thomas, PhD, Montclair, NJ

KHB decomposition of effects in mediation models of obesity, James Hardin, PhD, Columbia, SC

Dynamic modeling of human metabolism and body composition change, Kevin Hall, PhD, Bethesda, MD

The Future of Nutrition Research at NIH

29 AB

ASN action to advance the future of nutrition research, Gordon Jensen, MD, PhD, University Park, PA

Nutrition funding at NHLBI, Kathryn McMurry, MS, Bethesda, MD

Nutrition funding at NIDDK, Padma Maruvada, MSc, PhD, Bethesda, MD

Nutrition funding at NCI, Sharon Ross, PhD, MPH, Rockville, MD

OFFICIAL SCIENTIFIC PROGRAM

Nutrition funding at ODS, Cindy Davis, PhD, Bethesda, MD

Panel discussion, Daniel Raiten, PhD, Bethesda, MD

ICAN International Forum (South America)

Gut microbiota and metabolic syndrome, Marcella Garcez, MD, Paraná, Brazil

Nutritional support in obesity surgical patients: Easy or not?, Any Ferreira, MD, Asuncion, Paraguay

The use of Diethylpropion, Femproporex and Mazindol in Brazil: Lessons learned for the future of obesity treatment, Paulo Giorelli, MD, Rio de Janeiro, Brazil

Epigenetics and metabolic syndrome, Rita P. Raman, MD, Oklahoma City, OK

6:30 – 8:00 pm

Kellogg International Prize in Nutrition Lecture Advancing Knowledge in Global Maternal and Child Nutrition: The Value of Collaboration

San Diego Hilton Bayfront, Indigo C

Linda S. Adair, PhD

Professor of Nutrition

Carolina Population Center

University of North Carolina at Chapel Hill

Tuesday, April 29, 2014

8:00 – 10:00 am

It's Alive: Microbes and Cells in Human Milk and their Potential Benefits to Mother and Infant

Ballroom 20 D

Milk: The first probiotic food? Michelle McGuire, PhD, Pullman, WA

Rise and fall of the human milk microbiota, Juan Rodriguez, PhD, Madrid, Spain

Immune cells in human milk, Donna Geddes, PhD, Crawley, Australia

Stem cells in human milk, Foteini Hassiotou, PhD, Crawley, Australia

Beyond Blood Pressure: New Paradigms in Sodium Intake Reduction and Health Outcomes

31 ABC

How and how not to set a nutritional DRI: The sodium case, Robert Heaney, MD, Omaha, NE

Emerging science: Sodium intake and risk of

cardiovascular disease, Michael Alderman, MD, Bronx, NY

Sodium intake over time and across populations, David McCarron, MD, Davis, CA

Successful Scientist: What's the Winning Formula?

Road map to government, Regan Bailey, PhD, RD, Bethesda, MD

Charting a path to success: Navigating the academic landscape, Marion Sewer, PhD, La Jolla, CA

Lessons from transitioning (multiple times) between academics and industry, Michael McBurney, PhD, FACN, Parsippany, NJ

From the farm to the IOM, Connie Weaver, PhD, West Lafayette, IN

Roller coaster to success, Brian Wansink, PhD, Ithaca, NY

10:30 AM – 12:30 PM

Human Milk Oligosaccharides

Ballroom 20 D

An introduction to human milk oligosaccharides and their potential benefits for the breastfed infant and the breastfeeding mother, Lars Bode, PhD, La Jolla, CA

Human milk oligosaccharides for the prevention of rotavirus infections, Sharon Donovan, PhD, RD, Urbana, IL

High-throughput analysis and quantitation of human milk oligosaccharides, Carlito Lebrilla, PhD, Davis, CA

Human milk oligosaccharides as the reference for functional dietetic glycans, Bernd Stahl, PhD, Friedrichsdorf, Germany

Modifying Eating Behavior: Novel Approaches for Reducing Body Weight

31 ABC

Introduction and overview, Megan McCrory, PhD, West Lafayette, IN

Learning sensations of pre-meal hunger: effects on energy intake, body weight and insulin sensitivity, Mario Ciampolini, MD, Firenze, Italy

Effects of carbohydrates consumed mostly at dinner on hunger, body weight and insulin resistance, Sigal Sofer, MSc, RD and Zecharia Madar, PhD, Jerusalem, Israel

Retraining eating behavior using the Mandometer: effects on eating behavior and BMI standard deviation score in adolescents, Julian Shield, MB, ChB, MD, Bristol, UK

Retraining eating behavior using the Automatic Ingestion Monitor (AIM), Edward Sazonov, PhD, Tuscaloosa, AL

Summary and future directions, Nana Gletsu-Miller, PhD, West Lafayette, IN

Historical Impact of Nutritional Epidemiology

Historical role of epidemiology in identifying essential nutrients, Kenneth Carpenter, PhD, Berkeley, CA

Role of epidemiology in decision making for food fortification: Vitamin D to folic acid, Don McCormick, PhD, Atlanta, GA

Role of epidemiology in identification of foods and nutrients that influence the risk of cancer, Anthony B. Miller, Ontario, Canada

Relevance of nutritional epidemiology in the 21st century, Paul Jacques, ScD, Boston, MA

12:45 – 1:45 PM

W.O. Atwater Lecture

Energetics and Obesity: Epistemological, Evidentiary, and Social Challenges in Advancing Knowledge

Ballroom 20 D

David B. Allison, Ph.D.
Distinguished Professor
Quetelet Endowed Professor of Public Health
Director, Nutrition Obesity Research Center
University of Alabama at Birmingham

3:00 – 5:00 PM

The Science of Cocoa Flavanols: Bioavailability, Emerging Evidence and Proposed Mechanisms

Ballroom 20 D

Biosynthesis of flavanols within plants and bioavailability to humans, Richard Dixon, PhD, Denton, TX

Flavanol enhancement of mitochondria structure-function as a cardioprotective mechanism, Francisco Villarreal, MD, PhD, La Jolla, CA

Evidence-based assessment of cocoa flavanol effects on cardiovascular and metabolic risk factors, Eric Ding, PhD, Cambridge, MA

Role of cocoa flavanols in Alzheimer's disease pathology: Experimental approaches and clinical applications, Giulio Pasinetti, MD, PhD, New York, NY

Research Advances and Considerations for Investigating the Human Diet, Nutrient Utilization and Microbiota Interface Across the Life Course

31 ABC

Introduction, Cindy Davis, PhD, Bethesda, MD

Harnessing the power of epidemiology to advance human

microbiome research, Betsy Foxman, PhD, Ann Arbor, MI

Bidirectional associations between dietary intake, nutrient metabolism and the human microbiome, Johanna Lampe, PhD, Seattle, WA

Diet-microbiota interactions and the elderly, Ian B. Jeffery, Cork, Ireland

Ethical, legal and social considerations of population-based human microbiome research, Melody Slashinski, PhD, MPH, Houston, TX

Session summary, Joann McDermid, PhD, Ithaca, NY

Japan International Forum

29 AB

Activities of the Japan Society of Nutrition and Food Science and status of nutritional science in Japan, Hisanori Kato, PhD, Tokyo, Japan

The 2nd Health Japan 21: Goals and Challenges, Nobuo Nishi, MD, PhD, MSc, MBA, Tokyo, Japan

Achievements and discoveries as to functional foods in Japan, Hitomi Kumagai, PhD, Tokyo, Japan

Future strategies for the development of functional foods in Japan, Makoto Shimizu, PhD, Tokyo, Japan

5:00 – 6:15 PM

Danone International Prize in Nutrition Award Ceremony and Laureate Lecture Integration of Nutrients, Immune Response and Metabolism in Health and Disease

20 BC

Gökhan S. Hotamisligil, MD, PhD
J.S. Simmons Professor of Genetics and Metabolism
Harvard School of Public Health, Boston, MA

Wednesday, April 30, 2014

8:00 – 10:00 AM

Applications of Complex Systems Science in Obesity and Non-Communicable Chronic Disease Research

Ballroom 20 D

Applications of systems science in biomedical research: The opportunities, promise and challenges, Youfa Wang, MD, PhD, Buffalo, NY

Complex systems science and selected methods, Yaneer Bar-Yam, PhD, Cambridge, MA

Applications of systems science in childhood obesity research and interventions, Terry Huang, PhD, MPH, Omaha, NE

OFFICIAL SCIENTIFIC PROGRAM

A physiologist takes an integrated look at obesity, Michael Joyner, MD, Rochester, MN

NIH support for systems science related research, Layla Esposito, PhD, Bethesda, MD

Use of Metabolomics in Population-Based Research

31 ABC

The NIH common fund's metabolomics program, Padma Maruvada, PhD, Bethesda, MD

Metabolomics for epidemiologic studies, Steve Moore, PhD, Bethesda, MD

The West Coast Metabolomics Center - integrating metabolomics into large scale health research, Oliver Fiehn, PhD, Davis, CA

Using metabolomics to detect biomarkers of food consumption, David Wishart, PhD, Alberta, Canada

Phenotypic changes in the metabolome after dietary exchanges between westernized and non-westernized populations, Stephen O'Keefe, MD, Pittsburgh, PA

10:30 AM – 12:30 PM

Cellular Responses to Nutrients and Development of Disease

Ballroom 20 D

Amino acid responsive transcription factor networks, Michael Kilberg, PhD, Gainesville, FL

Molecular mechanisms of adaptation to intracellular stress and the development of diabetes., Maria Hatzoglou, PhD, Cleveland, OH

Sulfur as a signaling nutrient through H₂S, Ruma Banerjee, PhD, Ann Arbor, MI

Receptor interacting protein 140 (RIP140) in metabolism and inflammatory diseases, Li-Na Wei, PhD, Minneapolis, MN

Saturated long chain fatty acids suppress cancer cell growth by controlling retinoic acid signaling, Noa Noy, PhD, Cleveland, OH

Sustainable Diets for Healthy People, Healthy Planet

31 ABC

Setting the stage for a sustainable future: A real world challenge, Robert A. Burns, PhD, Washington, DC

Realizing healthy, eco-friendly, sustainable diets: The beginnings of an emerging science, Adam Drewnowski, PhD, Seattle, WA

Agricultural sustainability: Case study of continuous improvement practices in farm management and environmental stewardship, Greg Thomas, PhD, Fayetteville, AR

Capturing the imagination: Greater integration and collaboration for innovative solutions to sustainable food production, ecosystem protection, renewable energy and improved health, David Klurfeld, PhD, Beltsville, MD

Scientific Sessions & Annual Meeting at Experimental Biology 2014



American Society for Nutrition
Excellence in Nutrition Research and Practice

ASN BOOKSTORE: BOOTH #301

Best of Clinical Nutrition books and ASN gear for sale!

Sunday–Tuesday 9:00 a.m.–4:00 p.m.

ASN BOOTH: #301

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Sunday–Tuesday 9:00 a.m.–4:00 p.m.



NUTRITION POSTERS: ACROSS FROM ASN #301

Special giveaways during poster viewing hours!

Sunday–Tuesday 12:45–2:45 p.m.



SPONSORED SATELLITE PROGRAMS AT-A-GLANCE

Sponsored Satellite Programs are planned and conducted by external groups in conjunction with the American Society for Nutrition's Scientific Sessions and Annual Meeting			
Friday	Deciphering the Evidence behind Whole Food Nutrition & Disease Risk Reduction <i>Organized and Sponsored by the California Walnut Commission</i> 8:30 AM – 12:00 PM San Diego Hilton Bayfront – Indigo D		
	Functional and Sensory Roles of Glutamate in Human Foods <i>Organized and Sponsored by the Umami Information Center</i> 1:00 PM – 5:00 PM	The Global Nutrition Translation: Interaction of Nutrition and Physical Activity <i>Organized and Sponsored by the Herbalife Nutrition Institute</i> 1:00 PM – 5:00 PM	Let's Chew the Fat: Current Thinking on Dietary Fats and the Food We Eat <i>Organized and Sponsored by the Alliance for Potato Research and Education</i> 1:00 PM – 5:00 PM
	San Diego Hilton Bayfront – Sapphire 400 Sugar and Health Controversies: What Does the Science Say? <i>Organized and Sponsored by the Corn Refiners Association</i> 6:30 AM – 8:00 AM	San Diego Hilton Bayfront – Indigo D Mind the Gap! Addressing Nutrients of Concern for Americans <i>Organized and Sponsored by the Council for Responsible Nutrition</i> 6:30 AM – 8:00 AM	San Diego Hilton Bayfront – Indigo H
Saturday	San Diego Convention Center, 32AB Hydration and Health: Assessing the Gaps in the Science <i>Organized and Sponsored by Danone Research</i> 12:45 PM – 2:45 PM	San Diego Hilton Bayfront, Sapphire Ballroom The Role of Protein in Muscle Health: Current Methods and Mechanisms <i>Organized and Sponsored by DuPont Nutrition & Health</i> 12:45 PM – 2:45 PM	
	San Diego Hilton Bayfront, Sapphire D Exploring New Territories: The Emerging Role of Oats in Satiety, Antioxidants and Diet Quality <i>Organized and Sponsored by Quaker Oats Center of Excellence</i> 6:30 AM – 8:00 AM	San Diego Convention Center, 31A Are Almonds an Optimal Snack? New Research on the Health Effects of Almonds <i>Organized and Sponsored by the Almond Board of California</i> 6:30 AM – 8:00 AM	
Monday	San Diego Hilton Bayfront, Sapphire EF Novel Approaches to, and Health Implications of, Consuming More Nutrient Dense Foods and Beverages <i>Organized and Sponsored by PepsiCo</i> 6:30 AM – 8:00 AM	San Diego Hilton Bayfront, Sapphire IJ	
Tuesday	San Diego Hilton Bayfront, Indigo D What's the Truth About 100% Fruit Juice – Squeezing Fact from Fiction <i>Organized and Sponsored by the Juice Products Association</i> 6:30 AM – 8:00 AM		
Wednesday	San Diego Hilton Bayfront, Indigo H Global Summit on the Health Effects of Yogurt <i>Organized by ASN and the Danone Institute International</i> 8:00 AM – 12:30PM		
	San Diego Convention Center, 29ABCD		

SPONSORED SATELLITE PROGRAMS

Sponsored Satellite Programs provide an opportunity for external groups – industry, trade organizations, government, other scientific societies, etc. – to share and discuss research findings with the nutrition science community in conjunction with American Society for Nutrition scientific meetings. **Sponsored Satellite Programs** are not considered part of the official ASN program, and ASN does not endorse the content presented or their proceedings, publications, etc. Proposals for **Sponsored Satellite Programs** are peer-reviewed by ASN's Scientific Program Committee. Continuing professional education credits are provided for dietitians. Attendance is limited and pre-registration is strongly encouraged.

Register at <http://scientificsessions.nutrition.org/satellites>.

Friday, April 25

Deciphering the Evidence behind Whole Food Nutrition and Disease Risk Reduction

Organized and Sponsored by the California Walnut Commission

8:30 AM – 12:00 PM

[San Diego Hilton Bayfront – Indigo D](#)

Scientific Advances Supporting Dietary

Recommendations, Johanna T. Dwyer, DSc, RD, Jean Mayer USDA Human Nutrition Research Center on Aging and Tufts University School of Medicine

Deconstructing the Science to Better Understand Outcomes, Roger Clemens, DrPH, USC School of Pharmacy

Food, Nutrients and Whole Diets: Working Across the Layers of Evidence for Practice, Linda Tapsell, PhD, FDAA, University of Wollongong, Australia

Consumer Perspectives on Foods That Can Reduce Chronic Disease: How Americans View Their Own Diets, Their Efforts to Improve Them and Where the Health Professional Fits,

Marianne Smith Edge, MS, RD, International Food Information Council

Translation and Utilization of Science-Based Evidence by Health Professionals: Bring the Science to the Dinner Table, JoAnne Foody, MD, FACC, FAHA, Brigham and Women's Hospital, Harvard Medical School

The Global Nutrition Transition: Interaction of Nutrition and Physical Activity

Organized and Sponsored by the Herbalife Nutrition Institute

1:00 PM – 5:00 PM

[San Diego Hilton Bayfront – Indigo D](#)

Welcome and opening, David Heber, MD, PhD, UCLA Center for Human Nutrition

The Importance of Nutrition and Physical Activity: A Public Health Perspective, Richard H. Carmona, MD, PhD, 17th Surgeon General of the U.S.

The Challenge of Getting People Active, James O. Hill, PhD, University of Colorado, Anschutz Health and Wellness Center

A Global Perspective on Leisure Time Physical Inactivity, Bill Kohl, PhD, University of Texas Health Science Center

Exercise Dose-response Effects on Insulin Resistance, Fatness and Visceral Fat, John M. Jakicic, PhD, University of Pittsburgh

Muscle Cytokine Immune Effects and Sarcopenia, Charles T. Lutz, MD, PhD, University of Kentucky College of Medicine

Hydration, Carbohydrate, Protein, and Lipid Nutrition in Prolonged Exercise, Julian Alvarez, MD, PhD, Miguel Hernandez University

SPONSORED SATELLITE PROGRAMS

Let's Chew the Fat: Current Thinking on Dietary Fats and the Food We Eat

**Organized and Sponsored by the Alliance for Potato
Research and Education**

1:00 PM – 5:00 PM

[San Diego Hilton Bayfront – Indigo H](#)

Chairs: Eric Decker, PhD, Amherst, MA and Penny Kris-
Etherton, PhD, RD, University Park, PA

Welcome and Introduction of Eric Decker, Maureen Storey,
PhD, McLean, VA

Introduction, Eric Decker, PhD, Department of Food Science,
University of Massachusetts

**Emerging Nutrition Science on Fatty Acids and Health: A
Nutritionist's Perspective**, Penny Kris-Etherton, PhD, RD,
Department of Nutritional Sciences, The Pennsylvania State
University

**Emerging Nutrition Science on Fatty Acids and Health: A
Physiologist's Perspective**, Kevin Fritsche, PhD, University of
Missouri

**Carbohydrate: Fat See-saw: Can We Construct a Healthy
Diet Based on Dietary Recommendations?**, Adam
Drewnowski, PhD, Center for Public Health Nutrition,
University of Washington

**Challenges and Opportunities for Utilizing Healthy Fats
in Foods**, Eric Decker, PhD, Department of Food Science,
University of Massachusetts

**Realities of Changing the Fats in Foods we Eat: Industry
Scientists Weigh In (Panel Discussion)**, Brent Flickinger,
PhD, Archer Daniels Midland (moderator)

**Developing and Communicating Dietary Guidance for the
Public**, Joanne Slavin, PhD, RD, Department of Food Science
and Nutrition, University of Minnesota

Summary and Key Learnings, Eric Decker, PhD and Penny
Kris-Etherton, PhD, RD

Functional and Sensory Roles of Glutamate in Human Foods

**Organized and Sponsored by the Umami Information
Center**

1:00 PM – 5:00 PM

[San Diego Hilton Bayfront – Sapphire 400](#)

The Role of Glutamate as a Flavoring Agent in Foods,
Kumiko Ninomiya, PhD, Umami Information Center, Japan

Molecular Bases of Umami Taste Perception, Yuzo Ninomiya,
PhD, Kyushu University, Japan

**Metabolic Function of Free Amino Acids in the Mammary
Gland and Breast Milk**, Guoyao Wu, PhD, Texas A&M
University

**Glutamate Metabolism and Function in the Developing
Gut**, Douglas Burrin, PhD, USDA Children's Nutrition
Research Center, Baylor College of Medicine

**Umami Taste and Regulatory Effect of Free Glutamate
in Children**, Julie Mennella, PhD, Monell Chemical Senses
Center

Glutamate as a Signaling Molecule in the Gut-Brain Axis,
Daniel Tome, PhD, INRA AgroParisTech, France

Saturday, April 26 Sugars and Health Controversies: What Does the Science Say?

**Organized and Sponsored by the Corn Refiners
Association**

6:30 AM – 8:00 AM

[San Diego Convention Center, 32AB](#)

**Do Fructose Containing Sugars at Current Intake Levels
Lead to Non-alcoholic Fatty Liver Disease (NAFLD) and
Associated Health Sequelae?**, Alice H. Lichtenstein, DSc,
Cardiovascular Nutrition Laboratory, Jean Mayer USDA
Human Nutrition Research Center on Aging, Tufts University

Added Sugars and Health: An Industry Perspective, Roger
Clemens, DrPH, USC School of Pharmacy

**Does Consumption of Fructose Containing Sugars
Lead to Adverse Health Consequences? Results of
Recent Systematic Reviews and Meta-Analyses**, John L.
Sievenpiper, MD, PhD, Clinical Nutrition and Risk Factor
Modification Centre, St. Michael's Hospital, Toronto

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Mind the Gap!

Addressing Nutrients of Concern for Americans

Organized and Sponsored by the Council for Responsible Nutrition

6:30 AM – 8:00 AM

[San Diego Hilton Bayfront, Sapphire Ballroom C/D](#)

Nutrient Insufficiency among Persons of Various Weights, Race and Ethnicities: An Overview of the Evidence, Victor Fulgoni, III, PhD, Nutrition Impact, LLC

Multivitamin/Mineral Supplement Contribution to Micronutrient Intakes, Michael McBurney, PhD, FACN, DSM

Effects of Multivitamin/Mineral Supplements and Disease: Putting Research into Perspective, Howard Sesso, PhD, ScD, MPH, Harvard Medical School and Brigham and Women's Hospital (invited)

Hydration and Health: Assessing the Gaps in the Science

Organized and Sponsored by Danone Research

12:45 PM – 2:45 PM

[San Diego Hilton Bayfront, Sapphire D](#)

Introduction, Lawrence E. Armstrong, PhD, FACSM, University of Connecticut

From State to Process: Defining and Assessing Hydration, Erica T. Perrier, PhD, Danone Nutricia Research, France

Role of Water Intake in Chronic Kidney Diseases: Potential Mechanisms of Dehydration-Induced Renal Injury?, Richard J. Johnson, MD, University of Colorado

Challenges and Complexity in Assessing Effects of Dehydration on Cognitive Functions, Harris R. Lieberman, PhD, Natick, MA

Assessing Fluid Intake in Daily Life: Levers for Behavior Change, Isabelle Guelinckx, PhD, Danone Research, France

Perspectives and Future Directions for Hydration Research, Lawrence E. Armstrong, PhD, FACSM, University of Connecticut

The Role of Protein in Muscle Health: Current Methods and Mechanisms

Organized and Sponsored by DuPont Nutrition & Health
12:45 PM – 2:45 PM

[San Diego Convention Center, 31ABC](#)

Maximizing muscle mass with post-exercise protein intake, Nicholas A. Burd, PhD, University of Illinois at Urbana-Champaign

The role of post-exercise leucine ingestion on muscle protein synthesis and amino acid transporter expression in older men, Jared M. Dickinson, PhD, Arizona State University

The effect of protein blends on muscle protein synthesis and growth after exercise, Paul T. Reidy, MS, University of Texas Medical Branch

Amino acid sensing and signaling in the control of muscle health, Blake B. Rasmussen, PhD, University of Texas Medical Branch

Sunday, April 27

Are Almonds an Optimal Snack? New Research on the Health Effects of Almonds

Organized and Sponsored by the Almond Board of California

6:30 AM – 8:00 AM

[San Diego Hilton Bayfront, Sapphire IJ](#)

Assessment of Nutrient Intake, Diet Quality, Physiological Status and Disease Risk Factors in Almond Consumers, Carol E. O'Neil, PhD, MPH, RD, Louisiana State University

Dietary and Health Effects of Almonds Consumed as Snacks or With Meals: An Overview of the Evidence, Richard Mattes, MPH, PhD, RD, Purdue University

Effects of Almonds on Cardiovascular Health: Putting Established and Emerging Research into Perspective, Penny Kris-Etherton, PhD, RD, Department of Nutritional Sciences, The Pennsylvania State University

Exploring New Territories: The Emerging Role of Oats in Satiety, Antioxidants and Diet Quality

Organized and Sponsored by Quaker Oats Center of Excellence

6:30 AM – 8:00 AM

[San Diego Hilton Bayfront, Sapphire EF](#)

Introduction, Marianne O'Shea, PhD, Senior Director, R&D Nutrition, PepsiCo, The Quaker Oats Center of Excellence

Exploring New Territories in Oats Research, Joanne Slavin, PhD, RD, Department of Food Science and Nutrition, University of Minnesota

The Impact of Oats on Diet Quality, Victor Fulgoni, III, PhD, President, Nutrition Impact, LLC

Monday, April 28

Novel Approaches to, and Health Implications of, Consuming More Nutrient Dense Foods and Beverages

Organized and Sponsored by PepsiCo

6:30 AM – 8:00 AM

[San Diego Hilton Bayfront, Indigo D](#)

Welcome & Introductions, Richard Black, PhD, Vice

SPONSORED SATELLITE PROGRAMS

President, PepsiCo Global R&D Nutrition

Creating More Nutrient Dense Foods and Beverages Through Derived Polyphenols and Fiber From Plant Based Foods Such As Oranges, Jeffrey Blumberg, PhD, Jean Mayer USDA Human Nutrition Research Center on Aging

Exploring the Nutritional Benefits of Whole, Processed and Other Orange Products, Jeremy Spencer, PhD, University of Reading, UK

Tuesday, April 29

What's the Truth About 100% Fruit Juice?—Squeezing Fact from Fiction

Organized and Sponsored by the Juice Products Association

6:30 AM – 8:00 AM

[San Diego Hilton Bayfront, Indigo H](#)

Affordable Nutrition in a Glass, Adam Drewnowski, PhD, Center for Public Health Nutrition, University of Washington

Juice – Beyond Sugar and Calories, Mario Ferruzzi, PhD, Purdue University

Putting it All Together – A Practical Perspective, Roger Clemens, DrPH, USC School of Pharmacy

Wednesday, April 30

2nd Global Summit on the Health Effects of Yogurt

Organized by ASN and the Danone Institute International

8:00 AM – 12:30PM

[San Diego Convention Center, 29ABCD](#)

Welcome and Introductions, Sharon M. Donovan, PhD, RD, University of Illinois and Raanan Shamir, MD, Sackler Faculty of Medicine, Tel Aviv, Israel

History of Yogurt and Current Patterns of Consumption, Mauro Fisberg, MD, PhD Federal University of Sao Paulo, Brazil; Moderator: Andrew Prentice, PhD, London School of Hygiene & Tropical Medicine, London, UK

Yogurt and Health in the Life Cycle

- **Yogurt Consumption associated with Adequate Nutrient Intake and Decreased Metabolic Diseases in Children and Adolescents (including latest results of HELENA study)**, Stefaan de Henauw, Belgium; Moderator: Luis Moreno, PhD, University of Zaragoza, Spain
- **Impact of Yogurt on Appetite Control and Energy Balance and Body Composition**, Angelo Tremblay, PhD, Laval University, Quebec, Canada; Moderator: Barbara Rolls, PhD, Pennsylvania State University
- **Importance of Milk Protein on the Health Status of the Elderly (> 50 years health status)**, Robert R. Wolfe, PhD, University of Arkansas for Medical Sciences; Moderator: Rene Rizzoli, PhD, University of Geneva, Switzerland

Dairy Protein and Musculoskeletal Health: Report of the EU Working Group, Rene Rizzoli, PhD, University of Geneva, Switzerland; Moderator: Robert R. Wolfe

Perspectives for the Future

- **Dietary dairy product intake and incident type 2 diabetes**, Nita Forouhi, PhD, University of Cambridge, UK
- **Gut Microbiota & Health: What's New?**, Olivier Goulet
- **Microbiota & the Gut-Brain Axis**, John Bienestock; Moderator: Raanan Shamir, MD, Sackler Faculty of Medicine, Tel Aviv, Israel
- **Yogurt and Sustainability: Energy and Protein Conversion by Dairy Cows**, Toon Van Hoojdonk; Moderator: Chris Cifelli, PhD, Dairy Research Institute

Poster Presentations

The Role of Yogurt in the Future, Frans Kok, PhD, Wageningen University, The Netherlands

Closing Comments, Sharon M. Donovan, PhD, RD, University of Illinois, Urbana, IL and Raanan Shamir, MD, Sackler Faculty of Medicine, Tel Aviv, Israel

Yogurt Tasting Session

12:45 – 2:00PM

Join us for a special event with Ellie Krieger, MS, RD, host of Food Network's Healthy Appetite. Ellie will prepare a selection of recipes from her award-winning cookbooks and be available for book signings.

THE DANONE INSTITUTE INTERNATIONAL AND THE AMERICAN SOCIETY FOR NUTRITION

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SPECIAL EVENTS

During ASN's Scientific Sessions at EB 2014

DANONE INTERNATIONAL PRIZE IN NUTRITION CEREMONY AND LAUREATE LECTURE
TUESDAY, APRIL 29 • 5:00 PM • SAN DIEGO CONVENTION CENTER BALLROOM 20 BC



INTEGRATION OF NUTRIENTS, IMMUNE RESPONSE & METABOLISM IN HEALTH AND DISEASE

Gökhan S. Hotamisligil, MD, PhD

*J.S. Simmons Professor of Genetics and Metabolism
Harvard School of Public Health, Boston, MA*

A pioneer of the novel concept of “immunometabolism”, Dr. Hotamisligil has made landmark discoveries on the interactions between the immune system and metabolic homeostasis and their role in the development of obesity and associated metabolic disorders.

2ND GLOBAL SUMMIT ON THE HEALTH EFFECTS OF YOGURT • A SPONSORED SATELLITE PROGRAM
WEDNESDAY, APRIL 30 • 8:00 AM – 2:00 PM • SAN DIEGO CONVENTION CENTER ROOM 29

THE HEALTH EFFECTS OF YOGURT FEATURED TOPICS:

- Yogurt and health in the life cycle
- Dairy product intake and type 2 diabetes
- Gut microbiota and health: What's new?
- Microbiota and the gut-brain axis
- Yogurt and sustainability: Energy and protein conversion by dairy cows

PROGRAM CHAIRS:

Sharon M. Donovan, PhD, RD,
University of Illinois, Urbana, IL

Raanan Shamir, MD,
Sackler Faculty of Medicine, Tel Aviv, Israel



YOGURT TASTING SESSION

12:45 – 2:00 PM

Join us for a special event with Ellie Krieger, MS, RD, host of Food Network's Healthy Appetite. Ellie will prepare a selection of recipes from her award-winning cookbooks and be available for book signings.



Thank you to the following organizations for supporting ASN and its mission through the Sustaining Partner Program. Your efforts are appreciated and will continue to help further nutrition research and education not only in the United States, but globally.

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The Sugar Association

Unilever North America

Join members of the Sustaining Partners Roundtable at the Industry Forum to hear about the latest programs and initiatives from ASN.

Friday, 5:30 – 6:30 PM,
San Diego Hilton Bayfront, Cobalt 500

If you wish to learn more about the Sustaining Partner Program please contact:

Richard Algra, ralgra@nutrition.org



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