



**Science & Standards Symposium on
Functional Foods and Dietary Supplements—
Global Opportunities and Challenges**

Tuesday, September 18—Thursday, September 20, 2012
Boston Renaissance Waterfront, Boston, Massachusetts

Preliminary Agenda—Subject to Change
(As of September 6, 2012)

Tuesday, September 18, 2012 (Day 1)

7:00 a.m.–6:00 p.m.	Registration and Information	<i>Pacific Ballroom D Foyer</i>
7:30 a.m.–8:30 a.m.	Workshop Breakfast	<i>Atlantic Ballroom Foyer</i>
8:00 a.m.–4:00 p.m.	Council of Experts Meeting (closed meeting)	<i>Atlantic I</i>
8:00 a.m.–5:00 p.m.	Excipients Workshop	<i>Atlantic 2–3</i>
12 noon–1:00 p.m.	Workshop Lunch	<i>Atlantic Ballroom Foyer</i>
1:30 p.m.–3:00 p.m.	General Session Speaker Rehearsal	<i>Pacific Ballroom D & E</i>
4:00 p.m. – 5:30 p.m.	Council of Convention Listening Tour	<i>Pacific Ballroom F</i>
5:30 p.m.–8:30 p.m.	Symposium Opening General Session	<i>Pacific Ballroom D & E</i>
5:30–6:00 p.m.		Cocktails/Networking
6:00–6:15 p.m.		Welcome/Opening Remarks <i>Roger Williams, M.D., CEO, USP</i>
6:15–6:45 p.m.		Dinner
6:45–7:15 p.m.		Challenges & Resources in Dietary Supplement Research Paul Coates, Ph.D., Office of Dietary Supplements (ODS) at the NIH
7:15–7:30 p.m.		Q & A
7:30–7:50 p.m.		USP Volunteer Awards <i>Angela Long, M.S., SVP, Global Alliances & Organizational Affairs</i>
		STACQ Donor Recognition <i>Shawn Dressman, Ph.D., VP, Standards Acquisition</i>
7:50–8:00 p.m.	Overview of Science & Standards Symposium <i>Markus Lipp, Ph.D., Director Food Ingredients and Gabriel Giancaspro, Ph.D., Director Dietary Supplements, USP</i>	
8:00–8:05 p.m.	Symposium Logistics Overview <i>Kelly Coates, CMP, Director, Meeting Services, USP</i>	
8:05–8:30 p.m.		Dessert/Networking

Wednesday, September 19, 2012 (Day 2)

7:00 a.m.–5:00 p.m. **Registration and Information** **Pacific Ballroom D Foyer**
7:00 a.m.–8:00 a.m. **Continental Breakfast** **Atlantic Ballroom**

8:00 a.m.–10:00 a.m.

8:00 a.m.–8:15 a.m.

Opening Remarks

Roger Williams, M.D., Chief Executive Officer, USP

8:15 a.m.–8:35 a.m.

Science Behind Public Standards: USP Perspectives on Dietary Supplements

Dennis Gorecki, Ph.D., Chair, USP Dietary Supplements Expert Committee

8:35 a.m.–8:55 a.m.

Science Behind Public Standards: USP Perspectives on Food Ingredients

Andy Ebert, Ph.D., Chair, USP Food Ingredients Expert Committee

8:55 a.m.–9:15 a.m.

The Science Behind Regulation—Challenges for Functional Foods

Robert Buchanan, Ph.D., Member USP Board of Trustees; Center for Food Safety and Security Systems Center for Food Safety and Security Systems

9:15 a.m.–9:35 a.m.

When Identity and Functionality Become Intertwined—What It Means to Regulators

Susana Socolovsky, Ph.D., Pentachem, Argentina

9:35 a.m.–10:00 a.m.

Q & A

10:00 a.m.–10:30 a.m.

Break (All)

10:30 a.m.–12:30 p.m.

Track I: Session 1 (Food Ingredients)

Functional Foods—Global Regulatory Perspectives
(Pacific Ballroom D & E)

Session Moderator: Carla Mejia, Ph.D., M.S., USP

- 1) **European Food Safety Authority (EFSA)**
Jordi Serratos, Ph.D., European Food Safety Authority
- 2) **A Regulatory Perspective on Functional Food Additives** – *Jeremy Miholav, M.S., U.S. Food and Drug Administration (FDA)*
- 3) **Function Food and Healthy Claim in China**
Yang Yuexin, Ph.D., Chinese Center for Disease Control and Prevention, China
- 4) **Regulation of Food-like Natural Health Products: a Canadian Perspective**
William Yan, Ph.D., Health Canada

10:30 a.m.–12:30 p.m.

Track II: Session 1 (Dietary Supplements)

Identity Testing for Dietary Supplements
(Pacific Ballroom A & B)

Session Moderator: Maged Sharaf, Ph.D., USP

- 1) **Orthogonal Methods for Identity: Classical Pharmacognosy Coupled with Instrumental Analysis**
Joseph Betz, Ph.D., Member, USP Dietary Supplements Expert Committee; National Institutes of Health (NIH), USA
- 2) **Nuclear Magnetic Resonance in the Verification of Identity and Integrity of Natural Ingredients for Dietary Supplements and Foods** – *Guido Pauli, Ph.D., Member, USP Dietary Supplements Expert Committee; University of Illinois at Chicago*
- 3) **DNA Barcode Techniques for the Identification of Herbal Dietary Supplement Constituents** – *Damon Little, Ph.D., The New York Botanical Garden*
- 4) **Non-Targeted Detection of Botanical Adulterants: A Statistical Challenge** – *James Harnly, Ph.D., United States Department of Agriculture (USDA)*

12:30 p.m.–2:00 p.m. **Networking Luncheon**

Atlantic Ballroom

Wednesday, September 19, 2012 (continued...)

<p>2:00 p.m.–4:00 p.m. Track I: Session 2 (Food Ingredients) <i>Functional Assays: A Part of Product Identity?</i> <i>(Pacific Ballroom D & E)</i></p> <p>Session Moderator: Grady Chism, Ph.D., Vice Chair, USP Food Ingredients Expert Committee</p> <ol style="list-style-type: none">1) Challenges and Opportunities for FTIR to Authenticate Food Ingredients and Screen for Adulteration – Michael Lelah, Ph.D., NOW Foods2) Buyer Beware! A Case of Mistaken Identity Testing for Identity of Functional Foods—A Test Laboratory Perspective Nate Paske, Covance Laboratories3) NMR for Quantification and Identification Bernd Diehl, Ph.D., Spectral Service AG, Germany4) NMR to Characterize Reference Materials – USP Approach on Mogroside Kristie Adams, Ph.D., USP	<p>2:00 p.m. – 4:00 p.m. Track II: Session 2 (Dietary Supplements) <i>Standards Supporting Dietary Ingredient Structure/ Functional Claims (Pacific Ballroom A & B)</i></p> <p>Session Moderator: Natalia Davydova, Ph.D., USP</p> <ol style="list-style-type: none">1) Bioequivalence of Botanical Preparation Marilyn Barrett, Ph.D., Member, USP Dietary Supplements Expert Committee; Pharmacognosy Consulting, USA2) Herbal Medicinal Products: Therapeutic Indications Fabio Soldati, Ph.D., Member, USP Dietary Supplements Expert Committee; Pharmaton SA, Switzerland3) Performance Testing of Botanical Dosage Forms Raimar Loebenberg, Ph.D., Member, USP Dietary Supplements Expert Committee; University of Alberta, Canada4) Advances in Testing Lipid-filled Soft Gelatin Capsules of Dietary Supplements James Brooks, Ph.D., Member, USP Dietary Supplements Expert Committee; Pharmavite,
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4:30 p.m.–5:15 p.m. Trends in Functional Ingredients **Pacific Ballroom D & E**
Nirvana Chapman, M.S., Mintel

5:15 p.m.–5:45 p.m. Deborah A. Duchon, M.A., Nutritional Anthropologist

5:45 p.m. – 6:00 p.m. Q & A

6:00 p.m. Networking Reception (onsite) **Atlantic Ballroom**

Thursday, September 20, 2012 (Day 3)

7:00 a.m.–5:00 p.m. Registration and Information **Pacific Ballroom D Foyer**

7:00 a.m.–8:00 a.m. Continental Breakfast **Atlantic Ballroom**

8:00 a.m.–10:00 a.m. **General Session: Today's Future?** **Pacific Ballroom D & E**

8:00 a.m.–8:30 a.m. **Oversight/Governance: Over an Increasingly Complex Food-scape**
Diane B. McColl, J.D., Member, Food Ingredients Expert Committee; Hyman, Phelbs & McNamara, P.C.

8:30 a.m.–9:00 a.m. **Functional Ingredients for Nutrition**
Janet E. Collins, Ph.D., R.D., DuPont and Incoming IFT President

9:00 a.m.–9:30 a.m. **Science and the Media**
Charles Bell, Consumers Union

9:30 a.m.–10:00 a.m. **Q & A**

10:00 a.m.–10:15 a.m. Break (All)

Thursday, September 20, 2012 (Day 3)

<p>10:15 a.m.–12:15 p.m. Track I: Session 3 (Food Ingredients) Emerging Ingredients from Traditional Sources (Pacific Ballroom D & E)</p> <p>Session Moderator: Lucy Yu, Ph.D., Member, USP Food Ingredients Expert Committee</p> <ol style="list-style-type: none">1) Antioxidants in Food: An Evidence-based Approach to Understanding, Sustaining and Promoting Benefits John Finley, Ph.D., National Program Leader in Human Nutrition, USDA/ARS2) A Food Industry Perspective—Issues and Opportunities for Food ingredient Standards Margaret Leahy, Ph.D., The Coca-Cola Company3) Evidence Based Nutrition Hans Biesalski, M.D., Member, USP Food Ingredients Expert Committee; University Hohenheim, Germany4) Methods of Identification of Functional Botanicals Indigenous of Chile: Part of the Standards-setting Process – Marcela Escobar, M.S., Universidad de Valparaiso, Chile	<p>10:15 a.m.–12:15 p.m. Track II: Session 3 (Dietary Supplements) Quality Initiatives from USP (Pacific Ballroom A & B)</p> <p>Session Moderator: Steven Dentali, Ph.D., Member, USP Member, Nomenclature Safety and Labeling and Member, Elemental Impurities Expert Panel</p> <ol style="list-style-type: none">1) Standards for Traditional Medicines – James Griffiths, Ph.D., USP2) Emerging Importance of Geographical Indications and Designations of Origin—Authenticating Geo-Authentic Botanicals – Josef Brinckmann, Member, USP Dietary Supplements Expert Committee; Traditional Medicinals, Inc.3) USP Standard Tools for Industry Compliance to Dietary Supplement cGMPs – Joy Joseph, M.S., Member, USP Dietary Supplements Expert Committee; Joys Quality Management Systems4) Authenticated Reference Materials for Botanicals Gabriel Giancaspro, Ph.D., USP
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12:15 p.m.–1:15 p.m. Lunch Atlantic Ballroom

<p>1:15 p.m.–3:15 p.m. Track I: Session 4 (Food Ingredients) Emerging Ingredients from Traditional Sources (Continued)</p> <p>Session Moderator: Jeff Moore, Ph.D., USP</p> <ol style="list-style-type: none">1) Functional Oils Richard Cantrill, Ph.D., Member USP Food Ingredients Expert Committee; AOCS2) New Sources of Bioactive and Functional Compounds from Tropical America Biodiversity Ricardo Elesbão Alves, Ph.D., LABEX-USA, Brazil and Luis Cisneros-Zevallos, Ph.D., Texas A&M University3) Functional Tests as Part of Ingredient Identification Testing – Jon deVries, Ph.D., Member, USP Food Ingredients Expert Committee; Medaillon Labs/General Mills4) Identity and Authenticity Testing of Fruit Juices Dana Krueger, Krueger Food Laboratories, Inc.	<p>1:15 p.m.–3:15 p.m. Track II: Session 4 (Dietary Supplements) Evidence-based Efficacy and Safety Review (Pacific Ballroom A & B)</p> <p>Session Moderator: Scott Jordan, Ph.D., Member USP Dietary Supplements Expert Committee; Health Canada</p> <ol style="list-style-type: none">1) Dietary Supplements—A Clinician Perspective Tieraona Low Dog, M.D., USP Dietary Supplements Expert Committee; University of Arizona2) Evidence-based Review—USP Approach Nandakumara Sarma, Ph.D., USP3) Evidence-based Review of Vitamin D and Calcium Mei Chung, Ph.D., Tufts University4) What Is the Best Strategy for Preclinical Testing of Botanicals? Veronika Butterweck, Ph.D., University of Applied Sciences Northwestern, Switzerland
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3:15 p.m.–3:30 p.m. Break (All)

3:30 p.m.–4:00 p.m. Wrap Up/Summary Pacific Ballroom D & E

4:00 p.m. 2012 Science & Standards Symposium Concludes*

*A memory stick with presentations will be available at the conclusion of the Science & Standards Symposium and can be obtained from the registration/information kiosks. The memory stick will not be available before the conclusion of the meeting; please plan to stay through the end to secure your memory stick.