36th National Nutrient Databank Conference

“Empowering Consumers through Advances in Food Composition”

March 25 - 28, 2012
Intercontinental Hotel • Houston, Texas
36th National Nutrient Databank Conference

“Empowering Consumers through Advances in Food Composition”

PROGRAM AND ABSTRACTS

March 25 – 28, 2012

InterContinental Houston
2222 West Loop South
Houston, Texas

Edited by Susie Day, Deirdre Douglass, & Amber Brown

Cover Art by Amber Brown
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March 26, 2012

Greetings!

As Mayor of Houston, I extend a special welcome to all attending the 36th National Nutrient Databank Conference. It is an honor to have this event return to Houston for the first time since 1987.

More than 30 million people visit the Greater Houston area every year to experience our world-class restaurants, appealing museums and thrilling sports arenas. The Galleria area, where you are staying, is our premier shopping district with many fine restaurants, boutiques and hotels for your pleasure.

We hope that all of you enjoy learning about our resident’s contributions to food and nutrition. Houston employs over 60,300 food and nutrition professionals who are leading innovation, education, research and technology.

We are so proud to host your group of unique professionals. Although your visit to Houston will be relatively short, our outstanding facilities and hospitable residents create the ideal atmosphere to host this prestigious event in our city.

We hope that you enjoy your stay and experience the best that Houston has to offer!

Sincerely,

Annise D. Parker
Mayor

Annise D. Parker
Mayor
36th National Nutrient Databank Conference
Empowering Consumers through Advances in Food Composition
March 25-28, 2012 ● Houston, TX

36th National Nutrient Databank Conference Committees

Executive Committee
Susie McNutt, Chair
Lisa Jahns, Chair-Elect

Julie Eichenberger Gilmore, Treasurer
Rose Tobelman, Past-Chair

Steering Committee Members
Elizabeth Braithwaite, ESHA Research
Carol Boushey, University of HI
Ruth Charrondiere, FAO Italy
Catherine Champagne, PBRC, LA
R. Sue Day, University of Texas
Josephine Deeks, Health Canada
Rachel Fisher, DNRC, NIH, DC
Lisa Harnack, University of MN
Joanne Holden, USDA ARS NDL
David Haytowitz, USDA ARS NDL

Marie Kuczmarski, University of DE
Diane Mitchell, Penn State University
Alanna Moshfegh, USDA ARS FSRG
Suzanne Murphy, University of HI
Ramkishan Rao, NIFA, USDA
Laura Sampson, Harvard SPH
Susan M. Sanders, Coca-Cola, GA
Phyllis Stumbo, University of Iowa
Thea Zimmerman, Westat, Inc., MD

Conference Chair
R. Sue Day

Local Arrangements Committee
Amber Brown
Deirdre Douglass
Michelle Forman

Noemi Islam
Carolyn Moore

Conference Program Co-Chairs
Johanna Dwyer

Diane Mitchell

Program Committee
Josephine Deeks
Lisa Harnack
Pamela Pehrsson

Leila Saldanha
Phyllis Stumbo
The National Nutrient Databank Conference
Wishes to Acknowledge the Generous Support of its Sponsors!

Carolyn Moore, PhD, RD
The National Nutrient Databank Conference
Wishes to Acknowledge the Generous Support of its Contributors!
Message from the Executive Committee

Welcome to the 36th National Nutrient Databank Conference (NNDC) in Houston, Texas! This year’s theme -- *Empowering Consumers through Advances in Food Composition* -- brings together a thought-provoking group of speakers that will challenge us with novel and cutting edge presentations. We will hear innovative ways food composition databases can be used to empower consumers and meet their public health needs, and will be exposed to new technological developments for dietary assessment and their implications for database support. Speakers will discuss strategies for constructing and updating existing databases to meet current research needs and the importance and challenges of developing new databases. We will be asked to consider the differences in how databases are used for individual assessment compared to market level needs, and the gaps that prevent us from accurately collecting data for research. We will also be updated on regulatory issues involving databases and their impact on industry and consumers. Finally, our international speakers will provide insight to achievements and challenges in building and maintaining global databases. What an exciting time it is to be part of the food composition research community!

The Executive Committee would like to thank all those who made this conference possible. Susie Day and her tireless Local Arrangements committee have created a wonderful environment for us to listen, learn, mingle, network, and just relax. And the Program Co-chairs, Johanna Dwyer and Diane Mitchell, headed an extremely knowledgeable and creative committee that prepared this outstanding program. Lastly, we would like to thank you – the attendees – for your interest in nutrient databases. Your desire to be renewed and updated on a regular basis is what inspires us to reach for a high quality conference such as this one. Please enjoy the experience and take the opportunity to interact with colleagues with similar interests.

*Susie McNutt, Lisa Jahns, Rose Tobelman, & Julie Gilmore*
Message from the Conference Committee Chair

On behalf of the Local Arrangements Committee, I welcome you to the 36th National Nutrient Databank Conference here in the 4th largest city in the United States. Some of you may remember that the 12th annual NNDC meeting was held in Houston in 1987. So after 25 years – it is indeed time to welcome the NNDC back to our city. Houston is home to the world’s largest medical center where the universities and research facilities of the Local Arrangements committee reside. I extend a personal welcome to each of you from the University of Texas School of Public Health and the Michael and Susan Dell Center for Healthy Living.

The NNDC accomplishes its business through a series of committees comprised of committed volunteers who sincerely believe in the organization’s mission. As Conference Chair, I had the privilege of working closely with these dedicated committees over the last year and credit the success of this meeting to our collective efforts. On the front lines here in Houston, my colleagues Deirdre, Amber, and Michele have been the backbone of our Local Arrangements Committee. My sincere gratitude goes out to all of my conscientious, supportive collaborators.

The NNDC meetings are held because we value most what each of you brings to the group setting. We thank you for being here to learn, share and network with other experts. We especially appreciate those who submitted abstracts of their work for a poster or a podium presentation. We hope everyone will be stimulated by the outstanding program and that the local arrangements facilitate both science and practice. Have a pleasant stay in our city!

Susie Day
Message from the Program Co-chairs

We are delighted to have you join us at this 36th National Nutrient Databank Conference in Houston Texas. We are especially grateful to our host, the University of Texas School of Public Health. We also thank our other cosponsors, the US Department of Agriculture and Health Canada. Partial support from the AFRI (Agriculture and Food Research Initiative) US Department of Agriculture, the Office of Dietary Supplements, National Institutes of Health, and Carolyn Moore, PhD, RD is also acknowledged with appreciation.

We gratefully acknowledge all of the program committee members whose contributions have been invaluable in creating an exciting program.

This year’s theme is a timely topic—Empowering Consumers Through Advances in Food Composition. Our hope is that at the conclusion of the meeting, attendees will find new ways and venues for applying their skills to help meet the public health needs of consumers, and to find new ways for empowering consumer through use of databanks and databases. Regulatory issues involving databases that have impacts on both industry and consumers will be discussed. Attendees will hear experts provide updates on the dynamic construction, administration and management of databases, new developments in hardware and software, and new constituents and features in databases, as well as a vision for where databases need to be going. Challenges in characterizing diets across the socioecological spectrum will be discussed. We will conclude with a session on global horizons for databases, with several international visitors who will provide updates of what is going on in the rest of the world.

We extend a special welcome to conference newcomers, our distinguished guests from abroad as well as here in the United States, and to the “old timers” who have added so much over many years, and in some cases decades. We urge you to get acquainted with your fellow attendees, and to enjoy our host city and the many social events!

Welcome,

Johanna Dwyer & Diane Mitchell
36th National Nutrient Databank Conference
Empowering Consumers through Advances in Food Composition
March 25-28, 2012 • Houston, TX

Empowering Consumers through Advances in Food Composition

Cosponsors: National Nutrient Databank Conference Steering Committee
US Department of Agriculture, University of Texas School of Public Health, Health Canada

Partial Support from Agriculture and Food Research Initiative (AFRI); US Department of Agriculture; Office of Dietary Supplements; National Institutes of Health; and Carolyn Moore, PhD, RD

SUNDAY MARCH 25, 2012

12:00-7:00 **Registration** - Champions, 2nd floor

PRE-CONFERENCE WORKSHOP – Champions I & II, 2nd floor

1:00–2:45 Nutrient Data Laboratory (2 hours)

Session Leaders: David Haytowitz and Joanne Holden, USDA
This workshop will provide attendees with information on the USDA National Nutrient Database for Standard Reference – its history, how it is assembled and what it contains. Information on NDL’s Special Interest Databases will also be provided.

2:45-3:15 Break - Beverages and Snacks

3:15-5:00 Food Surveys Research Group (2 hours)

Session Leader: Alanna Moshfegh, USDA
This workshop will help participants gain understanding of the What We Eat in America, NHANES dietary data and documentation and the technical support files of the USDA Food and Nutrient Database for Dietary Studies. Topics to be covered will include the specifics of collection and dissemination of dietary data, food codes and descriptions, the newest special purpose database—the Food Intakes Converted to Retail Commodities Database, and soon to be released WWEIA Food Categories.

6:00-9:00 OPENING RECEPTION – Champions, 2nd floor
Sponsored by Carolyn Moore, PhD, RD
MONDAY MARCH 26, 2012

7:30-5:00 **Registration** - Discovery Prefunction Area

8:00-9:00 Breakfast will be provided—Discovery Prefunction Area

9:00-9:30 WELCOME - Discovery Center
Susie Day, University of Texas School of Public Health, Local Arrangements Chair and Susie McNutt, Chair of NNDC Steering Committee

SESSION 1: MEETING PUBLIC HEALTH NEEDS OF CONSUMERS
Session Chairs: Susie Day and Susie McNutt

9:30-10:10 Keynote Speaker: Suzanne Murphy, University of Hawaii, Emeritus
Aligning Food Composition Tables with Current Dietary Guidance for Consumers
2012 award recipient of an outstanding lifetime achievement in the area of nutrient databases.

10:10-10:20 Award Presentation: Phyllis Stumbo and Susie McNutt

10:20-10:35 Break - Beverages and Snacks

10:35-10:55 Recent Trends in Ready-To-Eat Breakfast Cereals in the U.S.
Robin Thomas, USDA-ARS-Nutrient-Data Laboratory

10:55-11:15 Updates to the NHANES Dietary Supplement Data
Jaime Gahche, Centers for Disease Control and Prevention

11:15-11:35 Potential for Food and Nutrient Databases and Dietary Survey Data to Aid in Foodborne Illness Outbreak Investigations
Mercedes Estrada and Lisa Harnack, University of Minnesota

11:35-11:55 Assessment of Nutritional Intake during Space Flight and Space Flight Analogs
Barbara Rice, Enterprise Advisory Services, Inc
MONDAY MARCH 26, 2012 Cont.

12:00-1:00 Lunch will be provided – Founders Ballroom

1:00-2:00 Poster Session with Presenters—Discovery Center

SESSION 2: CONSIDERATIONS IN DYNAMIC CONSTRUCTION, ADMINISTRATION AND MANAGEMENT OF DATABASES

Session Chairs: Pamela Pehrsson and Joanne Holden

2:00-2:40 Keynote Speaker: Ruth Charrondiere; Food and Agriculture Organization
Food Composition Databases-Needs, New Opportunities and International Collaboration

2:40-3:00 Sources of Variability in the Flavonoid Content of Foods
David Haytowitz, USDA-ARS-Nutrient-Data Laboratory

3:00-3:20 ARS, USDA Updates Food Sampling Strategies to Keep Pace with Demographic Shifts
Pamela Pehrsson, USDA-ARS-Nutrient-Data Laboratory

3:20-3:40 Break - Beverages and Snacks

3:40-4:00 USDA Monitors Levels of Added Sodium in Processed and Prepared Foods
Joanne Holden, USDA-ARS-Nutrient-Data Laboratory

4:00-4:20 Monitoring Sodium in Sentinel Foods
Alanna Moshfegh, USDA-Food Surveys Research Group

4:20-4:40 Methods for Calculating Dietary Energy Density in a Nationally Representative Sample
Jacqueline Vernarelli, Pennsylvania State University
4:40-5:00  Partners in Food Solutions – A Technology Transfer Initiative and Need for Developing a Nutrient Database to Help Produce Quality Nutritious Foods in Africa.
Indra Mehrotra, General Mills

5:00  Adjourn

5:00-6:00  **Networking Opportunity with Colleagues in Lobby Lounge**

6:00  Board Bus to Dinner Banquet
Buses leave from the covered circle drive at the hotel conference area.

6:30-9:00  Dinner Banquet
Transportation provided to Pappasito’s Cantina for “Legendary Tex-Mex” cuisine in one of Houston’s most famous restaurants since 1983. It has the look of a border town cantina and the feel of a fiesta. Pappasito’s serves amazing sizzling fajitas, mouth-watering enchiladas, unique desserts and some of the best chips and homemade salsa north of the Rio Grande. (Vegetarian option provided)
TUESDAY MARCH 27, 2012

**Registration** - Discovery Prefunction Area

7:00-8:00 Breakfast will be provided—Discovery Prefunction Area

SESSION 3: NEW DEVELOPMENTS - Discovery Center

Session Chairs: Lisa Harnack and Carol Boushey

8:00-8:40 Keynote Speaker: Jamie Coffin, Vice President and General Manager and Global Practice Lead, Dell, Health Care and Life Sciences
Cloud Computing, Accelerating information-Driven Healthcare that Improves Health and Accelerates Innovation

8:40-9:00 Legibility of Nutrition Facts Panel and Ingredient Statement Images Captured using the Apple iPad 2
Denise King, University of Minnesota

9:00-9:20 Digital Food Photography: Dietary Surveillance and Beyond
Noemi Islam, Baylor College of Medicine

9:20-9:40 Unique Considerations in Modifying Food Composition Databases for Image-Based Dietary Assessment Methods Running on Small Mobile Devices
Carol Boushey, University of Hawaii Cancer Center

9:40-10:00 Break - Beverages and Snacks

SESSION 4: NEW DATABASES

Session Chairs: Johanna Dwyer and Alanna Mosfegh

10:00-10:40 Keynote Speaker: John Milner, National Cancer Institute, NIH Coordinator of the National Food and Nutrition Analysis Program (NFNAP)
Bioactive Food Component Databases: Opportunities and Challenges
10:40-11:00 Future Directions of the USDA-ARS National Nutrient Data: Outcomes from a Stakeholders' Workshop
John Finley, USDA

11:00-11:20 Databases for the Future: Where Technology Can Take Us
James Harnly, USDA

Karen Andrews, USDA/ARS.

11:40-12:00 Robust Nutrient Database is an Essential Ingredient for Product Development
LuAnne Waran, General Mills

12:00-1:15 Lunch will be provided – Founders Ballroom

SESSION 5: CHARACTERIZING DIETS ACROSS THE FOOD STREAM
Discovery Center

Session Chairs: Phyllis Stumbo and Thea Zimmerman

1:15-1:55 Keynote Speaker: Jill Reedy, National Cancer Institute
Multi-level Dietary Analyses Requires Comprehensive, Standardized Data

1:55-2:10 Foods and Nutrients in the National Food Supply
Jean Buzby, ERS, USDA

2:10-2:25 Addressing Gaps in Market Level Databases
Shu Wen Ng, University of North Carolina at Chapel Hill

2:25-2:40 Databases for Characterizing Foods in the 'As Eaten' Form
Elizabeth Condon, Mathematica Policy Research
Tuesday March 27, 2012 Cont.

2:40-3:10  Panel discussion
Susan Krebs-Smith, NCI
Meghan Slining, University of North Carolina at Chapel Hill

3:10-3:30  Break - Beverages and Snacks

Session 6: Initiatives Empowering Consumers

Session Chairs: Diane Mitchell and Julie Gilmore

3:30-4:30  Keynote Speaker: Patricia Britten, USDA, Center for Nutrition Policy and Promotion
SuperTracker Incorporates Food Composition Data into Innovative Online Consumer Tool

4:30-4:50  Initiatives Impacting Nutrition Databases
Trish Zecca, Campbell's Soup

5:00  Adjourn

Free Evening (Dinner on Own)

6:00-9:00  Steering Committee Meeting and Dinner - Summit
WEDNESDAY MARCH 28, 2012

7:00-12:00  **Registration** - Discovery Prefunction Area

7:00-8:00  Breakfast will be provided—Discovery Prefunction Area

SESSION 7:  REGULATORY ISSUES INVOLVING DATABASES THAT HAVE IMPACTS ON INDUSTRY AND CONSUMERS—Discovery Center

Session Chairs: Leila Saldanha and Elizabeth Braithwaite

8:00-8:40  Keynote Speaker: Jessica Leighton, Office of Food, Food and Drug Administration
Nutrient Databases: Critical Tools for Regulation and Policy

8:40-9:00  Innovative Usage of Archival Versions of a Food and Nutrient Database to Track Trends in the Sodium Content of Menus at Leading Fast Food Restaurants
Mayly Thor, University of Minnesota

WenYen Juan, CFSAN/FDA

9:20-9:40  Prioritizing Non-Vitamin and Mineral Ingredients (non-VM) in the Dietary Supplement Ingredient Database (DSID)
Leila Saldanha, NIH Office of Dietary Supplements

9:40-10:00  Evaluating the Nutritional Content of Foods with Whole Grain Labeling
Dunja Sumanac, University of Toronto

10:00-10:15  Break - Beverages and Snacks
SESSION 8: GLOBAL HORIZONS

Session Chairs: Marie-France Verreault and Susan Sanders

10:15-10:55 Keynote Speaker: Paul M. Finglas, Institute of Food Research, Norwich Research Park, Norfolk, UK
Towards the European Food Composition Data Interchange Platform

10:55-11:15 US, Canadian, and Australian Datasets Seen Through Foreign Eyes
Jayne Ireland, Danish Food Information

11:15-11:35 Limitations of Food Composition Databases and Nutrition Surveys for Evaluating Food Fortification in the US and Canada
Jocelyn Sacco, University of Toronto

11:35-11:55 VALEDICTION
Susie Day, Local Arrangements Chair
Susie McNutt, Chair of the NNDC Executive Committee,
Recognition/Announcement of Steering and Executive Committee Members
Recognition of Newly Elected Committee Member

OPTIONAL TOURS

Tour buses leave from the covered circle drive at the hotel conference area.

12:30-3:30 Bus for tour to CNRC, reservation required
12:30-5:00 Bus for tour to NASA, reservation required
### Poster Presentations

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<th>Title</th>
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<td>1</td>
<td>Variation in the chemical composition of plant foods and its effect on physiologic variables: The example of selenium</td>
<td>John Finley</td>
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<td>Application of flavonoid databases in prospective European and US cardiovascular disease cohorts</td>
<td>Julia Peterson</td>
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<td>Correlation of Omega-3 Index with Dietary Intake in Kidney Transplant Recipients</td>
<td>Linda Moore</td>
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<td>Nubel food planner for professional use and screening on malnutrition</td>
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<td>Cheese in the American Diet: What foods contribute to cheese intake - WWEIA, NHANES 2001-2002</td>
<td>Carrie Martin</td>
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<td>“My fries were the size of an iPhone”: How portion size is reported in the Fuel 2 Fight Study</td>
<td>Amber Brown-Owens</td>
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<td>“Call me and we’ll complete it over the phone” — Elderly multi-ethnic adults’ views on completing a dietary recall via a web application</td>
<td>Reynolette Ettienne-Gittens</td>
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<td>INFOODS advances in standard settings, useful for food composition and dietary assessment</td>
<td>Barbara Stadlmayr</td>
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<td>Phytochemicals, components of high interest, reflected in the Food Composition Database on Biodiversity</td>
<td>Barbara Stadlmayr</td>
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<td>Functionality of protein fractions from black Crowder cowpea (Vigna unguiculata)</td>
<td>Florence Uruakpa</td>
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<td>Awareness and use of MyPlate guidelines in making food choices</td>
<td>Florence Uruakpa</td>
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<td>Consumption of raw and unprocessed foods among Indiana State University students</td>
<td>Florence Uruakpa</td>
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<td>ADDENDUM TO THE MYPYRAMID EQUIVALENTS DATABASE 2.0</td>
<td>Kristin Koegel</td>
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<td>USDA Develops a Database for Flavonoids to Assess Dietary Intake</td>
<td>Seema Bhagwat</td>
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<td>Glycemic Index Data Base for selected Qatari Foods</td>
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<td>Dietary Assessment of Choline, Choline-Containing Compounds, and Betaine in a Multiethnic Population</td>
<td>Kim Yonemori</td>
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<td>Food Diversity, Carotenoids, Micronutrient by Race and Diabetes Status</td>
<td>Joan Vaccaro</td>
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<td>Comparison of Nutrient Composition of Gluten-Containing and Gluten-Free Sliced Breads and Spaghetti Noodles</td>
<td>Bhaskaranj Jasthi</td>
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<td>19</td>
<td>Streamlining an Adult Dietary Self-report Tool to Accommodate Children: Impact on Nutrient and Food Group Estimates</td>
<td>Deirdre Douglass</td>
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<td>Lynn Hamilton</td>
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<td>Dietary aluminum intake of many U.S. toddlers is excessive based on 1999-2008 NHANES food intake data</td>
<td>Joannie Dobbs</td>
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<td>Calculated and potential excess consumption of iron and calcium from RTE breakfast cereals based on NHANES 1999-2008</td>
<td>Joannie Dobbs</td>
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<td>USDA updates nutrient values for fast food pizza</td>
<td>Melissa Nickle</td>
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<td>Changes in Nutrient Levels for Three Fresh Pork Loin Cuts between 1992-2010</td>
<td>Juhi Williams</td>
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<td>Retooling of USDA Food Patterns Equivalents Database: A new approach</td>
<td>Shanthy Bowman</td>
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<td>The Classification of Food in the Canadian Nutrient File (CNF) According to « Eating Well with Canada’s Food Guide » (EWCFG)</td>
<td>Marie France Verreault</td>
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<td>USDA Food and Nutrient Database for Dietary Studies (FNDDS), 5.0</td>
<td>Janice Montville</td>
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<td>Effect of Consuming Fortified Breakfast Cereal on Vitamin E and Calcium Status</td>
<td>Jill Killough</td>
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<td>Federal monitoring activities related to food: how do they compare?</td>
<td>Jaspreet Ahuja</td>
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<td>Standard Reference Database: Empowering Consumers via Legislation</td>
<td>Rocky Craig</td>
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<td>Assessing the feasibility of using a web application among elderly multiethnic adults</td>
<td>Donna Au</td>
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<td>Evaluation of evening meal recall and digital recording accuracy among adults</td>
<td>TusaRebecca Schap</td>
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<td>SciName Finder™</td>
<td>Anders Moeller</td>
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<td>What’s New in LanguaL?</td>
<td>Jayne Ireland</td>
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<td>Food reporting patterns in AMPM</td>
<td>Lois Steinfeldt</td>
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<td>Development of a Dietary Supplement Database for Use in a Study of Pregnant Women</td>
<td>Ladia Hernandez</td>
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<td>LanguaL: Controlled Vocabulary for Indexing Dietary Supplements in US Databases</td>
<td>Johanna Dwyer</td>
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### POSTER LAYOUT – Discovery Center

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Notes
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