

34th NATIONAL NUTRIENT DATABANK CONFERENCE

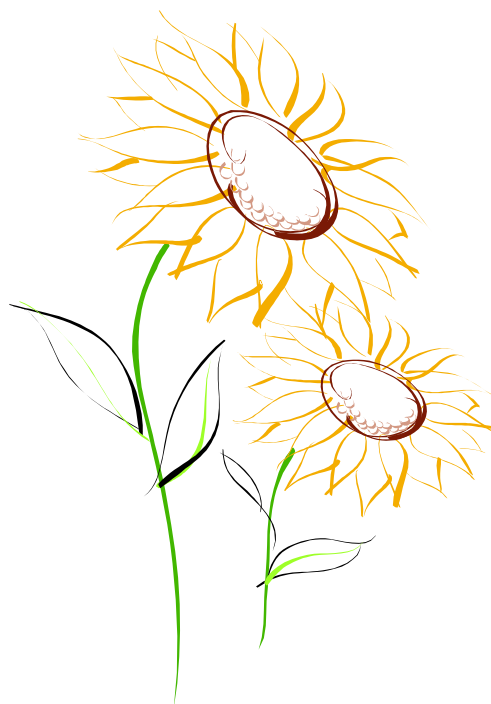
PRAIRIE TO PLATE: EXPLORING FOOD AND NUTRIENT DATABASE FRONTIERS

July 12-14, 2010 Grand Forks, North Dakota



34th National Nutrient Databank Conference

***Prairie to Plate: Exploring
Food and Nutrient Database
Frontiers***



July 12-14, 2010

Grand Forks, North Dakota

35th National Nutrient Databank Conference

To Be Announced!!

Stay tuned for upcoming information regarding the

35th National Nutrient Databank Conference

For information continue to check back on our

New website:

<http://www.nutrientdataconf.org/>



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34th National Nutrient Databank Conference

Prairie to Plate: Exploring Food and Nutrient Database Frontiers

12-14 July 2010, Grand Forks, North Dakota

COMMITTEES OF THE NATIONAL NUTRIENT DATABANK CONFERENCE

NNDC Executive Committee:

Rose Tobelmann, Chair

Suzanne McNutt, Chair-Elect

Julie Eichenberger Gilmore, Treasurer

Suzanne Murphy, Past-Chair

NNDC Steering Committee Members:

Cindy Beres, NPD Group, IL

Carol Boushey, Purdue University, IN

Elizabeth Braithwaite, ESHA, OR

Barbara Burlingame, FAO, Rome, Italy

Catherine Champagne, Pennington Biomedical Research Center, LA

Ana Chavez, NHANES, MD

Rena Sue Day, University of Texas, TX

Josephine Deeks, Health Canada, ON

Rachel Fisher, NIH, Bethesda, MD

Lisa Harnack, University of Minnesota, MN

James Harnly, ARS, USDA, Beltsville, MD

David Haytowitz, ARS, USDA, Beltsville, MD

Joanne Holden, ARS, USDA, Beltsville, MD

Lisa Jahns, ARS, USDA, Grand Forks, ND

Marie Fanelli Kuczmarski, University of Delaware, DE

Beverly McCabe-Sellers, USDA, ARS, Little Rock, AR

Diane Mitchell, Penn State University, PA

Alanna Moshfegh, ARS, USDA, Bethesda, MD

Ramkishan Rao, NIFA, USDA, Washington, DC

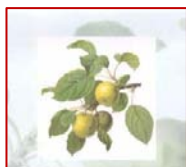
Laura Sampson, Harvard School of Public Health, MA

Susan M Sanders, Coca Cola, GA

Judith Spungen, Exponent, Washington, DC

Phyllis Stumbo, University of Iowa, IA

Thea Palmer Zimmerman, Westat, OH



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34th National Nutrient Databank Conference Planning Committee

Conference Chair:

Lisa Jahns

Local Arrangements Committee:

Ana Chavez

Lisa Harnack

Bonita Hoverson

Debbie Krause

Angela Scheett

Becky Stadstad

Rose Tobelmann

Florence Uruakpa

Conference Program Co-Chairs:

Rachel Fisher and Marie Fanelli Kuczmarski

Program Committee:

Jaspreet Ahuja

Ann Albertson

Carol Boushey

Priscilla Connors

Joanne Holden

Beverly McCabe-Sellers



***The National Nutrient Databank Conference
wishes to acknowledge the generous
support of its sponsors!***



United States
Department of
Agriculture

National Institute
of Food and
Agriculture



North Dakota Beekeepers Association
National Honey Board



Northern Region Sunflowers



Northharvest Bean Growers
Association



North Dakota Wheat Commission



Dahlgren & Company Inc
Sunflower Seeds



Ameriflax

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North Dakota Soybean Council



Dakota Growers Pasta Co.



North Dakota Mill and Elevator



Northern Canola Growers Association



North Dakota Beef Commission



United States Department of Agriculture
Agricultural Research Service



Greater Grand Forks
Convention & Visitors Bureau



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Message from the Conference Chair:

On behalf of the Local Arrangements Committee, I would like to welcome the participants of the 34th National Nutrient Databank Conference (NNDC). Although fairly new to both NNDC and to Grand Forks, North Dakota, I find it very fitting that we gather for the first time in the State of North Dakota, which leads the Nation in the production of several key commodities. I hope that both national and international participants enjoy sampling the local foods produced in this great state, thanks to our local sponsors!

I would like to express my deep thanks to the busy members of the Local Arrangements Committee. I would also like to thank the Program Co-Chairs for putting together such an amazing agenda for us, as well as to everyone who submitted their abstracts and traveled to present them. I would especially like to thank the Executive Committee for their tireless and cheerful mentoring and optimism!

Lisa Jahns



Message from the Program Co-Chairs:

It is our pleasure to hold the 34th National Nutrient Databank Conference in Grand Forks, North Dakota. We are fortunate to have presenters from countries around the world, and we would like to extend a warm welcome to all the participants of this conference.

The theme of the conference is to identify new frontiers related to food and nutrient databases. Each day will begin with a keynote address followed by sessions highlighting new analytical methods and novel approaches to acquire, compile, and disseminate composition data which will improve our estimations of total energy and nutrient intakes, thereby enhancing our ability to monitor nutritional health of populations.

We would like to acknowledge the time and effort of all the members of the program committee. Their involvement helped to create a stimulating program in addition to a special post conference workshop on dietary supplements. We are also appreciative of the support of the local arrangements committee, especially Lisa Jahns, for arranging the tours and banquet.

Rachel Fisher and Marie Fanelli Kuczmarski



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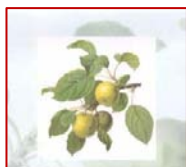
Message from the NNDC Executive Committee Chair:

Welcome to North Dakota, “America’s Friendliest State”. I am so pleased to have the 34th National Nutrient Databank Conference (NNDC) being hosted in Grand Forks. The theme for this year’s conference - *Prairie to Plate: Exploring Food and Nutrient Database Frontiers* embodies the heart of the Midwest where crops are grown and food is produced for the world. We also have the added benefit of having a USDA research site located in the host city.

The conference program provides numerous opportunities for us to expand our database knowledge and interact with colleagues with similar interests. I want to sincerely thank the Program Co-Chairs, Rachel Fisher and Marie Kuczmarski and their committee members who worked to put together such an outstanding program. I also want to recognize Lisa Jahns, Conference Chair, and the rest of the Local Arrangement Committee for their commitment to the conference. Lisa willingly brought the conference with her when she relocated to North Dakota from her previous position in Tennessee. Finally, I want to express my deep appreciation to my fellow Executive Committee members – Susie McNutt, Suzanne Murphy, Phyllis Stumbo and Julie Eichenberger Gilmore. They have truly been a source of strength and support for me and I am grateful for their continued support and commitment to the conference.

Rose Tobelmann





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Prairie to Plate: Exploring Food and Nutrient Database Frontiers

12-14 July 2010, Grand Forks, North Dakota

MONDAY, JULY 12, 2010

7:30-8:30 Breakfast and Registration

8:30-9:15 Welcome

- Rose Tobelmann, National Nutrient Databank Steering Committee Chair; General Mills, Inc.
- Lisa Jahns, Conference Chair; Grand Forks Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)
- Gerald F. Combs, Jr; Center Director, Grand Forks Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)

9:15-9:35 Food and Nutrient Databases: The Challenges and Future Frontiers

- Alanna Moshfegh; Food Surveys Research Group, Agricultural Research Service (ARS), US Department of Agriculture (USDA)

Session 1: Novel and Modernization of Databases

Session Chairs: Rachel Fisher and Marie Fanelli Kuczmarski

9:35-9:55 Tracking Foods from Prairie to Plate

- Sue Krebs-Smith; National Cancer Institute (NCI), National Institutes of Health (NIH)

9:55 – 10:15 Development of a Vitamin D Database for National Nutrition Monitoring

- Jaspreet KC Ahuja; Beltsville Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)
* presented by Alanna Moshfegh Food Surveys Research Group, Agricultural Research Service (ARS), US Department of Agriculture (USDA)

10:15 – 10:35 New Release of USDA Food and Nutrient Database for Dietary Studies

- Janice Bodner Montville; Beltsville Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)

10:35 - 10:55 From Plate to Market: A Novel Approach to Convert Foods Consumed Back to Food Commodities

- Shanthy A. Bowman; Beltsville Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)

10:55- 11:30 Break and Poster Viewing

Session 2: Exploring New Frontiers - International Updates

Session Chairs: Priscilla Connors and Beverly McCabe-Sellers

- 11:30-11:50 The EUROFIR eSearch – The European Food Composition Databank System
- *Anders Møller; Danish Food Information, Denmark*
- 11:50-12:10 Disaggregation of Composite Dishes in the UK National Diet and Nutrition Survey Food Composition Databank and Impact on Meat and Fruit and Vegetable Intakes
- *Alison M Stephen; MRC Human Nutrition Research, Elsie Widdowson Laboratory, Cambridge, UK*
- 12:10-12:30 Six Sigma Scale as Quality Criteria on Aggregation of Food Property Measures
- *Isabel Castanheira; Food Safety and Nutrition Centre, Dr. Ricardo Jorge National Institute of Health, Lisbon, Portugal*
- 12:30 – 1:30 **Networking Lunch** (included)

Session 3: Analytical Methods and Food, Part I

Session Chair: James Harnly

- 1:30-1:50 Spectral Fingerprinting for Identification and Authentication of Foods and Botanical Supplements
- *James Harnly; Food Composition and Methods Development Lab, Beltsville Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)*
- 1:50-2:10 Production of Unique Se-enriched Products and Biofuels from Plants Used for Removing Selenium from the Soil
- *Gary S. Banuelos; Agricultural Research Service (ARS), US Department of Agriculture (USDA)*
- 2:10-2:30 Retail Display Conditions of Continuous Light and Dark on the Disposition of Vitamins in Baby-Leaf Spinach
- *Gene Lester; Subtropical Agricultural Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA), Weslaco, TX*
- 2:30-2:50 Report on the Vitamin D Content of Fortified Retail Orange Juice in the U.S.
- *William C Byrdwell; Agricultural Research Service (ARS), US Department of Agriculture (USDA)*
- 2:50-3:10 Break and Poster Viewing**

Session 4: Exploring New Frontiers - Nutrient Variations in Databases

Session Chairs: Jaspreet Ahuja and Susie McNutt

- 3:10-3:30 Evaluation of FNDDS Food Items for Selection in Controlled Feeding Studies
- *Bethany L. Six; Purdue University Department of Foods and Nutrition*
- 3:30-3:50 Variability of Omega-3 Fatty Acids in Nutrient Databases and Related Research
- *Penny Kris-Etherton; Penn State*
- 3:50-4:10 Accuracy of Whole Grain Composition Estimates Derived from Formulations Created for a Sample of Whole Grain Containing Commercial Food Products
- *Lisa Harnack; University of Minnesota*
- 4:10 – 4:30 Maintenance of Nutrition Data for Agriculturally-Based Ingredients: An Industry Perspective
- *Annette Olson; General Mills Inc.*
- 5:30 Steering Committee Meeting**



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TUESDAY, JULY 13, 2010

7:30 - 8:30 Breakfast and Registration

8:30 – 9:00 USDA's *Your Food Environment Atlas*

- Joanne Guthrie; Economic Research Service (ERS), US Department of Agriculture (USDA)

Session 5: Analytical Methods and Food, Part II

Session Chairs, James Harnly and Thea Palmer Zimmerman

9:00 – 9:20 The Story is Not Over on Dietary Fiber: AOAC International Official Methodology for the CODEX Alimentarius

- Jonathan W. DeVries; Medallion Laboratories, General Mills Inc.

9:20 – 9:40 The Challenges of Incorporating Chromium into a Food and Nutrient Database

- Mayly Y. Thor; University of Minnesota - Nutrition Coordinating Center

9:40 – 10:00 The Use of Self-Reported Food Intakes to Formulate Explanations for Expected and Unexpected Findings in Copper, Zinc, and Magnesium Supplementation Studies

- Forrest Nielsen; Grand Forks Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)

10:00 – 10:30 Break and Poster Viewing

Session 6: Specialized Population Dietary Collection Methods and Databases

Session Chairs: Marie Fanelli Kuczmarski and Phyllis Stumbo

10:30-10:50 Adapting the US Department of Agriculture's Automated Multiple Pass Method for Use with a Native American Population

- Thea Palmer Zimmerman; Westat

10:50-11:10 Obtaining the Information Necessary to Adapt the US Department of Agriculture's Automated Multiple Pass Method for Use with a Native American Population

- Whitney Fraser; Environment International

- 11:10-11:30 A Comparison of the Nutrient Content of Hawaiian Fruits and Vegetables with USDA Standard Reference Data.
- Donna Au; University of Hawaii

11:30 – 12:30 **Networking Lunch** (included)

Session 7: Exploring New Frontiers - Dietary Supplement Databases

Session Chairs: Cathy Champagne and Julie Eichenberger Gilmore

- 12:30-12:50 New Developments in Federal Dietary Supplement Databases
- Johanna T Dwyer; Office of Dietary Supplements (ODS), National Institutes of Health (NIH)
- 12:50-1:10 Sampling Plans for Multivitamins and Dietary Supplements containing Omega-3 Acids in the Dietary Supplement Ingredient Database (DSID)
- Janet M. Roseland, Nutrient Data Laboratory, Beltsville Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)
- 1:10-1:30 An Overview of the National Health and Nutrition Examination Survey Dietary Supplements Database
- Jaime Gahche, National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)
- 1:30-1:50 Controlled Vocabulary for Describing Dietary Supplements: LanguaL Proposals
- Jayne Ireland; Danish Food Information, Denmark

Session 8: Sodium Under Scrutiny - Responses from Government and Industry

Session Chairs: Joanne Holden and Ann Albertson

- 1:50-2:10 USDA Strategies for Monitoring Sodium Changes in Foods
- Joanne Holden, Nutrient Data Laboratory, Beltsville Human Nutrition Research Center, Agricultural Research Service (ARS), US Department of Agriculture (USDA)
- 2:10-2:30 Development of Databases to Monitor Sodium in Packaged and Restaurant Foods
- Christine M Johnson, New York City Department of Health and Mental Hygiene
- 2:30-2:50 Reducing Sodium in Foods: An Industry Perspective
- Rickard Black, Kraft Global Nutrition
- 3:00 - 5:00 Optional Tours (HNRC, downtown Grand Forks)**
See conference website for details.
- 5:30 – 8:30 Picnic Banquet (included with registration)**



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WEDNESDAY, JULY 14, 2010

7:30 - 8:30 Breakfast

8:30 – 9:00 Process Used to Develop the 2010 Dietary Guidelines for Americans

- *Patricia Guenther; Center for Nutrition Policy and Promotion (CNPP), US Department of Agriculture (USDA)*

Session 9: Updating food composition databases with density for new technologies in diet assessment

Session Chairs: Carol Boushey and Cathy Chenard

9:00-9:05 Session Overview

- *Carol Boushey; Purdue University*

9:05-9:25 Review of Measuring and Predicting Density of Foods

- *Martin Okos; Purdue University*

9:25-9:45 Measuring Density Using Seed Displacement

- *Phyllis Stumbo; University of Iowa, Institute for Clinical and Translational Science*

9:45-10:05 Determination of Food Volume and Porosity Using Imaging Methods

- *Shivangi Kelkar; Purdue University*

10:05-10:25 Development of Density Prediction Methodology

- *Scott Stella; Purdue University*

10:25-10:45 Closing Remarks/Capstone

- *Susie McNutt; Westat*
- *Marie Fanelli Kuczmarski, University of Delaware and Rachel Fisher, National Institutes of Health*

11:00 - 2:00 Optional Tours (HNRC, downtown Grand Forks)

1:00 – 5:00 Special Post-Conference Workshop: Dietary Supplement Description System

Workshop Organizers: Joanne Holden, Research Leader of the Nutrient Data Laboratory, ARS, USDA and Johanna Dwyer, Office of Dietary Supplements, NIH.



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POSTER PRESENTATIONS

1. EuroFIR AISBL – The Unique European Provider of Food Information and Related Services

Simone Bell¹; Paul Finglas²; Anders Møller³; Jayne Ireland³; Paolo Colombani⁴;
George Chrysoschoidis⁵

¹EuroFIR AISBL, Brussels, Belgium; ²Institute of Food Research, Norwich, United Kingdom; ³Danish Food Information, Roskilde, Denmark; ⁴Department of Consumer Behavior, ETH Zurich, Switzerland; ⁵FoodCon, Brussels, Belgium

2. A Rapid in-Vitro Method for Glycemic Index Prediction in Foods

Sneh D. Bhandari

Silliker Inc., Chicago Heights, IL

3. A HPLC Method for Analysis of Vitamin K2 (Menaquinone-7) in Ingredients and Dietary Supplements

Sneh D. Bhandari¹; Anselm de Souza²; Dilip Mehta²; Kiran Krishnan³

¹Silliker Laboratory; ²Synergia Life Sciences, India; ³Nu Science Trading, Bollingbrook, IL

4. FoodBEAMS: Food and Beverage Environment Assessment and Monitoring System

Sally Lawrence Bullock, Lisa Craypo, Sarah Samuels

Samuels & Associates

5. Students From Schools With Higher Rates of Free and Reduced Meals Take Breakfasts With Fewer Calories

Linda Cashman, MS, RD¹; Andrea Gilmore, MS, RD¹; Ethan Bergman, PhD, RD¹; Tim Englund, PhD¹;
Bre-Anna Manwaring, MS, RD¹; Joe Tibay, RD¹; Charlotte Oakley, PhD, RD²

¹Central Washington University; ²National Food Service Management Institute

6. Matrix Extraction Process Optimization for Determination of Trace Elements Profile in Fish by ICP-MS With Relevance for Food Composition Databanks

Isabel Castanheira, Sandra Gueifão, Ana Claudia Nascimento, Inês Coelho.

Food Safety and Nutrition Centre, National Institute of Health Dr. Ricardo Jorge, Lisbon, Portugal

7. Methods of Analysis Database to Support the Evaluation of Food Analytical Data on Minerals and Trace Elements

Isabel Castanheira¹; Inês Coelho¹; Ana Sofia de Matos²; Seema Bhagwat³; Joanne M. Holden³; Maria Antónia Calhau¹

¹Food Safety and Nutrition Centre, National Institute of Health Dr. Ricardo Jorge, Lisbon, Portugal;

²Faculty of Science and Technology –Monte da Caparica (FCT) University of Lisbon; ³Nutrient Data Laboratory BHNRC/ARS/USDA

8. Nutrition Science Labs Incorporate Sustainability Theme

Priscilla Connors, PhD RD; Daniel Duryea, B.S. Candidate; Zachary Spaulding, B.S. Candidate;
Mengwen Wang, B.S. Candidate
University of North Texas

9. Trends in the Fatty Acid Composition of Frying Oils Used at Leading Fast Food Restaurants Over the Past 12 Years Based on French Fries as a Proxy Indicator

Lisa Harnack, Michael Oakes, Simone French, Dana Cordy, Matt Montgomery, Janet Pettit, Denise King
University of Minnesota

10. LanguagE Food Description: Update

Jayne Ireland; Anders Møller
Danish Food Information

11. Addition of Conjugated Linoleic Acid (CLA) to a Food and Nutrient Database

Bhaskarani Jasthi, PhD RD; Sally F. Schakel, RD; Lisa Harnack, DrPH RD; Denise King, PhD
NCC, University of MN

12. Survey of Dietary n-3 Fatty Acid Intakes and Food Sources in Midwestern Colorectal Patients

Cindy S. Kaminski, RD; Paula K Ritter-Gooder, PhD RD; Nancy M Lewis, PhD RD
University of Nebraska, Lincoln, NE

13. Dietary Sources of Select Nutrients Among Tree Nut Consumers and Non-Consumers: NHANES 2003-2006

Debra R. Keast, PhD¹; Michael Zanolvec, MS²; Carol E. O'Neil, PhD RD²; Victor L. Fulgoni, III, PhD³; Theresa A. Nicklas, DrPH⁴

¹ Food & Nutrition Database Research, Inc., Okemos, MI; ²LSU AgCenter, Baton Rouge, LA;

³Nutrition Impact, LLC, Battle Creek, MI; ⁴Baylor College of Medicine, USDA/ARS Children's Nutrition Research Center, Houston, TX

14. Trends in Sodium Content for Selected Savory Snack Foods in the USDA Nutrient Database for Standard Reference

Mona Khan, MS; Pamela Pehrsson, PhD
USDA-ARS-Nutrient Data Lab

15. Children's Artificial Sweetener Intake is Small but Differs by Mom's Working Status in Korea

Haeng-Shin Lee¹, Jee-Yeon Lee¹; Do-Hee Kim¹, Yoonna Lee¹, Eunmi-Koh¹, Jae-Jin Moon¹, Sung-Kwan Park²; Ho-Soo Lim²; So-Hee Kim², Cho-il Kim¹

¹Center for Nutrition Policy & Promotion, Korea Health Industry Development Institute, Seoul, Korea;

²Division of Food additives & evaluation, Korea Food & Drug Administration, Seoul, Korea

16. Children With Higher Fat Intake Get More Fat from Dinner: 2007-2009 Special Dietary Intake Survey for Children (SDISC) in Korea

Haeng-Shin Lee¹; Yoonna Lee¹; Do-Hee Kim¹; Jee-Yeon Lee¹; Eunmi-Koh¹; Jae-Jin Moon¹; Kwang-il Kwon²; Jong-Wook Kim²; Hye-Kyung Park²; Cho-il Kim¹;

¹Center for Nutrition Policy & Promotion, Korea Health Industry Development Institute, Seoul, Korea;

²Division of Nutrition Policy, Korea Food & Drug Administration, Seoul, Korea

17. Adding Vitamin D Dietary Values to Dietary Assessment of Rural Minority Children

Beverly J. McCabe-Sellers¹; Catherine M. Champagne²; H. Raymond Allen²; Dalia Lovera¹; Mary Ann McGinnis¹; Margaret L. Bogle¹

¹USDA ARS Delta Obesity Prevention Research Unit; ²Pennington Biomedical Research Center

18. Improvements Needed for Dietary Boron Assessments Impacting Public Health and Policies

Susan L. Meacham

University of Nevada Las Vegas

19. Sodium Values in Family-Style Restaurant Foods

Melissa Nickle, BS; Pamela Pehrsson, PhD; Linda Lemar, MS

USDA-ARS-Nutrient Data Lab

20. Improving Nutrient Database Values for Broccoli

Annette Olson, MS LN; Christine Wold, BS RD; Erin Smieja, BS RD

General Mills

21. Vitamin D3 Content of Seafood From a Nationwide United States Department of Agriculture (USDA) Sampling

Kristine Y. Patterson, PhD¹; Jacob Exler, PhD¹; Katherine M. Phillips, PhD²; Ronald L. Horst, PhD³; W. Craig Byrdwell, PhD¹; Joanne M. Holden, MS¹

¹USDA Beltsville Human Nutrition Research Center, Beltsville, MD; ²Virginia Polytechnic Institute and State University, Blacksburg, VA; ³Heartland Assays Inc., Ames, IA

22. American Indian and Alaska Native Foods in the USDA National Nutrient Database

Pamela Pehrsson, PhD; Kristine Patterson, PhD; David Haytowitz, MS

USDA-ARS-Nutrient Data Lab

23. Development of the Overall Nutritional Quality Index (ONQI) Score for a Food Frequency Nutrient Database

Laura Sampson, MS RD¹; Stephanie Chiuve, ScD^{1,2}; Walter Willett, MD, PhD³

¹Department of Nutrition, Harvard School of Public Health; ²Division of Preventive Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School;

³Departments of Nutrition and Epidemiology, Harvard School of Public Health

24. Adolescents' Abilities to Identify Foods and Beverages at Time of Consumption

TusaRebecca E. Schap¹; Bethany L. Six¹; Deborah A. Kerr²; Edward J. Delp³; David S. Ebert³; Carol J. Boushey¹

¹Foods and Nutrition, Purdue University, West Lafayette, IN; ²School of Public Health, Curtin Institute of Technology, Bentley, WA, Australia; ³School of Electrical and Computer Engineering, Purdue University, West Lafayette, IN

25. The Prevalence of Folate Inadequacy by Lifestyle Characteristics After Accounting for Folate Overages Post-Folic Acid Fortification in Canada

Yaseer A Shakur¹; Paul Corey²; Deborah L O'Connor¹

¹Department of Nutritional Sciences, University of Toronto, and the Research Institute, the Hospital for Sick Children, Toronto, Canada; ²Dalla Lana School of Public Health, University of Toronto, Canada

26. Physical, Chemical, Functional and Sensory Characteristics of Hard-to-Cook White African Yam Beans (*Sphenostylis sternocarpa*)

Florence Uruakpa, PhD¹; Ijeoma Osuji, MS²; Gold Iloabuchi, BS²

¹*Department of Nutrition & Dietetics, University of North Dakota, Grand Forks;* ²*Department of Food Science & Technology, Federal University of Technology, Owerri, Nigeria*

27. Nutrition and Health Principles With Biology Learning

Sheila M. Wicks

City Colleges of Chicago

DEMONSTRATIONS

1. The 2010 International Nutrient Databank Directory: Converting to a Web-Based Directory

Thea Palmer Zimmerman, MS RD¹; Catherine A. Chenard, MS, RD, LD²; Stephen G. Hull, MS¹

¹*Westat;* ²*University of Iowa*



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NOTES



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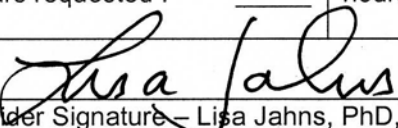
12-14 July 2010, Grand Forks, North Dakota

NOTES

**Continuing Professional Education
CERTIFICATE OF ATTENDANCE**

**34th National Nutrient Databank Conference
Grand Forks, North Dakota – July 12 – 14, 2010**

Participant Name		RD/DTR ID Number
July 12 th	July 13 th	July 14 th
Hours requested for educational session listed below (max = 5.0): _____ <u>Keynote & Sessions 1 - ,4-</u> <i>Novel/Modernization Databases; International Update, Analytical Methods, Nutrient Variations</i> Number of Poster hours requested: _____	Hours requested for educational session listed below (max = 5.0): _____ <u>Sessions 5 through 8:</u> <i>Analytical Methods, Specialized Populations, Dietary Supplement Databases, Sodium Issues</i> Number of Poster hours requested: _____	Hours requested for educational session listed below (max = 6.0): _____ <u>Session9 & Post Conf Wkshp:</u> <i>Updating food comp databases for New Technology (2 hrs) Diet Supplement Wkshop (4 hrs)</i> Number of Poster hours requested: _____
Total Number of CPE hours requested : _____	Total Number of CPE hours requested : _____	Total Number of CPE hours requested : _____

Provider Signature 
Issuing Organization – 34th National Nutrient Databank Conference

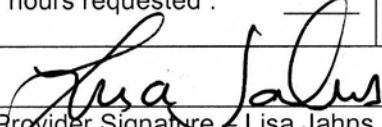
7/14/10
Date

Individual's Copy

**Continuing Professional Education
CERTIFICATE OF ATTENDANCE**

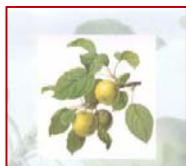
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Participant Name		RD/DTR ID Number
July 12 th	July 13 th	July 14 th
Hours requested for educational session listed below (max = 5.0): _____ <u>Keynote & Sessions 1 - ,4-</u> <i>Novel/Modernization Databases; International Update, Analytical Methods, Nutrient Variations</i> Number of Poster hours requested: _____	Hours requested for educational session listed below (max = 5.0): _____ <u>Sessions 5 through 8:</u> <i>Analytical Methods, Specialized Populations, Dietary Supplement Databases, Sodium Issues</i> Number of Poster hours requested: _____	Hours requested for educational session listed below (max = 6.0): _____ <u>Session9 & Post Conf Wkshp:</u> <i>Updating food comp databases for New Technology (2 hrs) Diet Supplement Wkshop (4 hrs)</i> Number of Poster hours requested: _____
Total Number of CPE hours requested : _____	Total Number of CPE hours requested : _____	Total Number of CPE hours requested : _____

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34th National Nutrient Databank Conference

Prairie to Plate: Exploring Food and Nutrient Database Frontiers

12-14 July 2010, Grand Forks, North Dakota

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