**PATRICIA M. GUENTHER, PhD, RD**

**Department of Nutrition and Integrative Physiology University of Utah**

**16 E. Churchill Dr.**

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**EDUCATION**

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| UNIVERSITY OF MARYLAND AT COLLEGE PARK***Ph.D., Nutritional Sciences*** | 1984 |
| UNIVERSITY OF MICHIGAN MEDICAL CENTER***Dietetic internship*** | 1972 |
| CASE WESTERN RESERVE UNIVERSITY***M.S., Nutrition - public health emphasis*** | 1971 |
| CASE WESTERN RESERVE UNIVERSITY***B.S., Nutrition*** | 1970 |

**CERTIFICATION**

***Registered Dietitian*** 1972-present

# EMPLOYMENT HISTORY

UNIVERSITY OF UTAH

Department of Nutrition and Integrative Physiology, College of Health

***Research Professor*** 2013-present

Department of Biomedical Informatics, School of Medicine

***Adjunct Professor*** 2016-present

* Grants:

USDA/NIFA Regional Nutrition Education Center of Excellence-West, 2015-2017, “Evaluation of a Novel, Low Cost, Low Burden, Scalable Technology for Evaluating Expanded Food and Nutrition Education Program and Supplemental Nutrition Assistance Program-Education Effectiveness,” $45,000. Co-principal investigator.

National Heart Lung and Blood Institute, 2015-2017, “Untangling Sodium, Energy, and Blood Pressure in Whites and African Americans,” $178,000. Co-principal investigator.

USDA/NIFA Regional Nutrition Education Centers of Excellence, 2015-2018, “Multi- disciplinary Methods for Effective, Sustainable, and Scalable Evaluations of Nutrition Education Programs,” $1,000,000. Co-principal investigator.

National Cancer Institute/Purdue University, 2017-2022, “Development of a Total Nutrient Index,” $17,000 per year subaward. Co-investigator.

* Served on a master’s student’s committee, Biomedical Informatics, School of Medicine
* Served on a master’s student’s committee, Nutritional Sciences, Rutgers University
* Served on a master’s student’s committee, Nutrition, College of Health

***Adjunct Associate Professor*** 1998-2013

* Served on two master’s students’ committees, Nutrition, College of Health
* Lectured occasionally

DUKE UNIVERSITY

 Program of Computational Biology and Bioinformatics

 *Term Member of the Graduate Faculty* 2022-2026

* Serve on a PhD student’s committee

GUENTHER CONSULTING 1996-present

Salt Lake City, Utah

## Principal Consultant

* Current projects include serving as a member of the National Cancer Institute Measurement Error in Dietary Data Working Group.
* More recent projects included serving as co-PI for a study of berry consumption in the U.S. for the National Berry Crops Initiative ($10,000); reviewing the study plan for a large USDA-sponsored project to assess school meal programs; reviewing fish consumption survey

reports for Versar, Inc., on behalf of EPA; and leading an evaluation of EFNEP in the Mountain Region.

* Earlier projects included a study of the dietary status of elderly Americans, a study of factors related to meat consumption and a study of nonresponse in the National Health and Nutrition Examination Survey (NHANES) Supplemental Survey of Older Americans, both with Iowa State University, and the development of a Pyramid Servings database for NHANES III for the National Cancer Institute.

U.S. DEPARTMENT OF AGRICULTURE 2003-2013 Center for Nutrition Policy and Promotion (CNPP), Alexandria, Virginia

***Nutritionist***

* Conducted dietary assessment research and other research related to dietary guidance
* Mentored student interns
* Leader of the Healthy Eating Index Team
* Member of the 2010 and 2015 Dietary Guidelines Management Teams
* Member of the 2010 Dietary Guidelines for Americans Writing Team
* Member of the Federal Dietary Reference Intakes Steering Committee
* Member of the National Cancer Institute Measurement Error in Dietary Data Working Group

U.S. DEPARTMENT OF AGRICULTURE 1978-1996 Agricultural Research Service, Beltsville Human Nutrition Research Center,

Food Surveys Research Group, Riverdale, Maryland

***Nutritionist***

* Responsible for the planning and management of research on dietary data collection methods and statistical methodology for dietary survey data analysis
* Responsibilities also included various aspects of planning and conducting the USDA food consumption surveys, analyzing the data, and reporting the results

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| UNIVERSITY OF MARYLAND AT COLLEGE PARKDepartment of Human Nutrition and Food Systems***Adjunct Assistant Professor**** Lectured occasionally
 | 1989-1991 |
| NAVY FOOD SERVICE SYSTEMS OFFICE, Washington, DC***Dietitian*** | 1976-1978 |
| D.C. GENERAL HOSPITAL, Washington, DC***Clinical Dietitian*** | 1972-1976 |

#  HONORS AND AWARDS

* **Outstanding Abstract and Poster Award**, Utah Academy of Nutrition and Dietetics Annual Meeting, 2023
* ***Journal of the Academy of Nutrition and Dietetics Outstanding Reviewer Recognition Award***, 2020
* ***Purdue University Nutrition Science Graduate Organization Seminar Speaker****,* 2017
* ***Elaine R. Monsen Award for Outstanding Research Literature*** for an outstanding body of published research in the field of dietetics, food, and nutrition, 2015
* ***National Institutes of Health Merit Award*** for the Measurement Error Webinar Series (team award), 2012
* ***Food and Drug Administration Commissioner’s Special Citation Award*** for exemplary interagency collaboration in establishing national science-based dietary intake objectives and 10-year targets to improve Americans’ health through the Healthy People 2020 initiative, 2011
* ***Department of Health and Human Services Assistant Secretary for Health's Award*** for exemplary teamwork in supporting the scientific review of the 2010 Dietary Guidelines Advisory Committee, 2010
* ***USDA Merit Award*** for the communication of the revised Healthy Eating Index, 2010
* ***Mary P. Huddleson Award*** for best article in the *Journal of the American Dietetic Association*, authored by a registered dietitian, in 2008
* ***USDA Merit Award*** for the application of the revised Healthy Eating Index, 2008
* ***National Institutes of Health Merit Award*** for conceptualizing and implementing a model to estimate usual dietary intakes (team award), 2008
* ***Secretary’s Honor Award*** for development of MyPyramid (team award), 2006
* ***USDA Merit Award*** for evaluation of the revised Healthy Eating Index, 2006
* ***USDA Merit Award*** for conceptual development of the revised Healthy Eating Index, 2005
* ***First Author Award***, American Dietetic Association, Research Dietetics Practice Group, 1995
* ***USDA Merit Award*** for Nonresponse Study**,** conducted 1990-1991
* ***USDA Merit Award*** for Bridging Study**,** conducted 1987-1990

## D.C. Dietetic Association Cutter Scholarship, 1981

* ***D.C. Dietetic Association Ross Scholarship***, 1978
* ***D.C. Dietetic Association Recognized Young Dietitian of the Year***, 1976
* ***Mortar Board*** (national senior women's honorary), 1969-1970

# PROFESSIONAL ASSOCIATION MEMBERSHIPS

* American Society for Nutrition

Nutritional Epidemiology Research Interest Section

* Academy of Nutrition and Dietetics Research Dietetics Practice Group

#  PROFESSIONAL SERVICE

* ***Member, NC3169: EFNEP-related Research, Program Evaluation and Outreach***, a multi-state research program conducting research in support of the USDA Expanded Food and Nutrition Education Program (EFNEP), 2014-2021.
* ***Poster Competition Judge***, Nutritional Epidemiology Research Interest Section, American Society for Nutrition, 2014-2019
* ***Speaker,*** “Code of Ethics for the Dietetics Profession,” Utah Academy of Nutrition and Dietetics Annual Meeting, March, 2014
* ***Member, Steering Committee,*** Nutritional Epidemiology Research Interest Section, American Society for Nutrition, 2013-2017
* ***Member, Board of Editors***, *Journal of the Academy of Nutrition and Dietetics*, 2004-2021
* ***Ad hoc Reviewer***, *Journal of the American Dietetic Association*, 1986-present
* ***Ad hoc Reviewer***, *Journal of Nutrition, American Journal of Clinical Nutrition, American Journal of Preventive Medicine*, *Nutrients,* 2013-present
* ***Member, Board of Editors***, *Journal of Nutrition Education and Behavior*, 2005-2007
* ***Ad hoc Reviewer***, *Journal of Nutrition Education and Behavior*, 1986-present
* ***Reviewer***, American Society for Nutrition annual meeting abstracts, 2013-present
* ***Reviewer***, Academy of Nutrition and Dietetics annual meeting abstracts, 1998-2021
* ***Chair***, American Dietetic Association, Community Nutrition Research Practice Group, 1981-1982
* ***Treasurer***, Metro-D.C. Society for Nutrition Education, 1979-80
* ***Chair***, D.C. Dietetic Association Nominating Committee, 1979-1980
* ***Chair***, D.C. Dietetic Association Public Relations Committee, 1978-1979
* ***Chair***, D.C. Dietetic Association Community Nutrition Section, 1975-1976

# PROJECTS AND PRODUCTS

## School Meals-related Research:

Spruance, L.A., **Guenther, P.M.**, Callaway, S., Giles, L., Varas, S., and Metos, J. Healthy school meals for all in Utah. *Journal of School Health,* in press.

Spruance, L.A., **Guenther, P.M.**, and Metos, J., Healthy School Meals for All in Utah. Presented at the Utah Academy of Nutrition and Dietetics Annual Meeting, West Jordan, UT, March, 2023.

Au, L.E., Ritchie, L.D., Gurzo, K., Nhan, L.A., Woodward-Lopez, G., Kao, J., **Guenther, P.M.**, Tsai, M., and Gosliner, W., 2020, Post Healthy Hunger-Free Kids Act adherence to select school nutrition standards by region and poverty level: The Healthy Communities Study. *Journal of Nutrition Education and Behavior* 53(3):249-258.

## Development, Evaluation, and Application of the Healthy Eating Index and Other Diet

## Quality Indexes:

Wallace, A., Martin, A., Bédard, A., Pitre, C., Lemieux, S., Simpson, J.R., Kirkpatrick, S.I., Hutchinson, J.M., Williams, T.E., Westaway, A.M., Lamarche, B., Day, M., **Guenther, P.M.**, Jessri, M., L’Abbé, M.R., de Costa Louzada, M.L., Olstad, D.L., Prowse, R., Reedy, J., Vatanparast, H., Vena, J.E., and Haines, J., 2023, Development of the Canadian Eating Practices Screener to assess eating practices based on 2019 Canada’s Food Guide recommendations. *Applied Physiology, Nutrition, and Metabolism* 48:907-18.

Perreault, M., Wallace, A., Martin, A., Sadowski, A., Laila, A., Lemieux, S., Hutchinson, J.M., Kirkpatrick, S.I., Simpson, J.R., **Guenther, P.M.**, Lamarche, B.. Jessri, M., da Costa Louzada, M.L., Olstad, D.L., Prowse, R., Vatanparast, H., and Haines, J., 2023, Construct validity and reliability of the Canadian Eating Practices Screener to assess eating practices based on 2019 Canada’s Food Guide recommendations. *Applied Physiology, Nutrition, and Metabolism* 48:919-31.

Vena, J.E., Hutchinson, J.M., Williams, T.E., Dodd, K.W., **Guenther, P.M.**, Lamarche, B., Westaway, A., and Kirkpatrick, S.I. The Canadian Food Intake Screener: A rapid method for assessing overall diet quality in cancer prevention research. Presented at the Canadian Cancer Research Conference, Halifax, November, 2023.

Hutchinson, J. M., Williams, T. E., Dodd, K.W., **Guenther, P.M.**, Lamarche, B., Westaway, A., Bédard, A., Pitre, C., Lemieux, S., Wallace, A., Perreault, M., Martin, A., Haines, J., and Kirkpatrick, S.I. Developing and evaluating a screener to assess alignment of adults’ dietary intake with the 2019 Canada’s Food Guide healthy food choices recommendations. Presented at the International Conference on Diet and Activity Methods, Limerick, Ireland, June, 2023.

Hutchinson, J.M., Dodd, K.W., **Guenther, P.M.**, Lamarche, B., and Kirkpatrick, SI. Scoring system for and construct validity of a screener to assess alignment of adults’ dietary intake with the 2019 Canada’s Food Guide healthy food choices recommendations. Presented at the Canadian Nutrition Society Annual Conference, Québec City, May, 2023.

Hutchinson, J.M., Dodd, K.W., **Guenther, P.M.**, Lamarche, B., Haines, J., Wallace, A., Perreault, M., Williams, T.E., da Costa Louzada, M.L., Jessri, M., Lemieux, S., Olstad, D.L., Prowse, R., Randall Simpson, J., Vena, J.E., Szajbely, K., Rondeau, I., and Kirkpatrick, S.I., 2023, The Canadian Food Intake Screener/Questionnaire court canadien sur les apports alimentaires for assessing alignment of adults’ dietary intake with the 2019 Canada’s Food Guide healthy food choices recommendations: Scoring system and construct validity. *Applied Physiology, Nutrition, and Metabolism* 48:620-33.

Hutchinson J.M, Williams, T.E., Westaway, A.M., Bédard, A., Pitre, C., Lemieux, S., Dodd, K.W., Lamarche, B., **Guenther, P.M.**, Haines, J., Wallace, A., Martin, A., Hernandez, K.J., da Costa Louzada, M.L., Jessri, M., Olstad, D.L., Prowse, R., Randall Simpson, J., Vena, J.E., and Kirkpatrick, S.I., 2023, Development of the Canadian Food Intake Screener/Questionnaire court canadien sur les apports alimentaires to assess alignment of adults’ eating patterns with healthy food choices recommendations. *Applied Physiology, Nutrition, and Metabolism* 48:603-619*.*

Ricart, G., Atoloye, A.T., Durward, C.M., and **Guenther, P.M.**, 2022, New exponential scoring functions for diet quality indexes solve problems caused by truncation. *Journal of Nutrition* 152:1168–1173.

Cowan, A.E., Bailey, R.L., Jun, S., Dodd, K.W., Gahche, J.J., Eicher-Miller, H.A., **Guenther, P.M.**, Dwyer, J.T., Potischman, N., Bhadra, A., and Carroll, R.J., 2021, The Total Nutrient Index is a useful measure for assessing total micronutrient exposures among US adults. *Journal of Nutrition* 152:863-871.

Cowan, A.E., Jun, S., Tooze, J.A., Dodd, K.W., Gahche, J.J., Eicher-Miller, H.A.,

**Guenther, P.M.**, Dwyer, J.T., Potischman, N., Bhadra, A., Carroll, R.J., and Bailey, R.L.,

2021, A narrative review of nutrient based indexes to assess diet quality and the proposed total nutrient index that reflects total dietary exposures. *Critical Reviews in Food Science*

*and Nutrition*, pp. 1-11.

Brassard, D., Elvidge Munene, L.A., St. Pierre, S., **Guenther, P.M.**, Kirkpatrick, S.I., Slater, J., Lemieux, S., Jessri, M., Haines, J., Prowse, R., Olstad, D.L., Garriguet, D., Vena, J.E., Vatanparast, H., L'Abbé, M.R., and Lamarche, B., 2022, Development of the Healthy Eating Food Index (HEFI)-2019 measuring adherence to Canada's Food Guide 2019 recommendations on healthy food choices. *Applied Physiology, Nutrition, and Metabolism* 47:595-610.

Brassard, D., Elvridge Munene, L.A., St-Pierre, S., Gonzalez, A., **Guenther, P.M.**, Jessri, M., Vena, J., Olstad, D.L., Vatanpatast, H., Prowse, R., Lemieux, S., L’Abbe, M., Garriguet, D., Kirkpatrick, S.I., and Lamarche, B., 2022, Evaluation of the Healthy Eating Food Index (HEFI)-2019 measuring adherence to Canada’s Food Guide 2019 recommendations on healthy food choices. *Applied Physiology, Nutrition, and Metabolism* 47:582-594.

Kirkpatrick, S.I., Dodd, K.W., Potischman, N., Zimmerman, T.P., Douglass, D., **Guenther, P.M.**, Durward, C., Atoloye, A., Kahle, L.L., Subar, A.F., and Reedy, J., 2021, Healthy Eating Index-2015 scores among adults based on observed versus recalled intake*. Journal of the Academy of Nutrition and Dietetics* 121:2233-2241.

Ricart, G., and **Guenther, P.M.**, 2021. Devising a diet scoring algorithm sensitive to the entire range of dietary intakes*. Current Developments in Nutrition* 5(S2):880 (abstract). Presented online at Nutrition 2021, the American Society of Nutrition virtual annual meeting,

June, 2021.

Cowan, A., Jun, S., Tooze, J., Dodd, K., Gahche, J., Eicher-Miller, H., **Guenther, P**., Bhadra, A., and Bailey, R., 2021. Examining the validity of the Total Nutrient Index for assessing intakes of nutrients from foods, beverages, and dietary supplements. *Current Developments in Nutrition* 5(S2):871. Presented online at Nutrition 2021, the American Society of Nutrition virtual annual meeting, June, 2021.

Lamarche, B., Brassard, D., Kirkpatrick, S.I., Jessri, M., L’Abbe, M., St-Pierre, S., **Guenther, P.M.**, Lemieux, S., Vena, J., Olstad, D.L., Vatanpatast, H., Prowse, R., Slater, J., Haines, J., Elvridge, L.A., Garriguet, D., and Gonzalez, A. The Healthy Eating Food Index (HEFI-2019): a tool measuring alignment with healthy food choices (“what to eat”) recommendations in Canada’s Food Guide. Presented at the virtual Canadian Nutrition Society Annual Meeting, April, 2021.

Ricart, G., and **Guenther, P.M.** Addressing truncation in diet quality indexes. *International Conference on Diet & Activity Methods: a global twenties vision, Abstract Book*, p. 90. Available at icdamportal.org/past-meetings.html. Presented at the International Conference on Diet and Activity Methods, February 8-12, 2021, hosted virtually by Wageningen University and Research, the Netherlands.

Gills, S.M.H., Auld, G., Hess, A., **Guenther, P.M.**, and Baker, S.S., 2021, Positive change in healthy eating scores among low-income adults after participation in the Expanded Food and Nutrition Education Program (EFNEP). *Journal of Nutrition Education and Behavior* 53:

503-510.

Wright, B., Vasquez-Mejia, C., **Guenther, P.M.**, McCormack, L., Stluka, S., Franzen-Castle, L., Henne, B., Mehrle, D., Remley, D., and Eicher-Miller, H., 2021, Fruit and vegetable Healthy Eating Index component scores of distributed food bags were positively associated with client diet scores in a sample of rural, Midwestern food pantries. *Journal of the Academy of Nutrition and Dietetics* 121:74-83.

Eicher-Miller, H., Wright, B., **Guenther, P.**, McCormack, L., Stluka, S., Remley, D., Mehrle, D., Franzen-Castle, L., Henne, B., and Vasquez-Mejia, C. Nutritional quality of vegetables, fruits, protein foods, and sodium distributed in client food bags is positively associated with client diet quality in rural food pantries. *Current Developments in Nutrition* 3(S1), 2019 (abstract). Presented at Nutrition 2019, Baltimore, June, 2019.

Gills, S.M.H., Baker, S., **Guenther, P.M.**, Hess, A., and Auld, G. Positive change in HEI-2005 dietary scores of low-income adults after participation in the Expanded Food and Nutrition Education Program (EFNEP). *Current Developments in Nutrition* 3(S1), 2019 (abstract). Presented at Nutrition 2019, Baltimore, June, 2019.

Brewster, P.J., Durward, C.M., Hurdle, J.F., Stoddard, G.J., and **Guenther, P.M.**, 2019, The Grocery Purchase Quality Index-2016 performs similarly to the Healthy Eating Index-2015 in a national survey of household food purchases. *Journal of the Academy of Nutrition and Dietetics* 119:45–56.

**Guenther, P.M.**, Brewster, P.J., Durward, C.M., and Hurdle, J.F., The Grocery Purchase Quality Index-2016 performs similarly to the Healthy Eating Index-2015 in a national survey of household food purchases. *Current Developments in Nutrition* 2(11), 2018 (abstract). Presented at Nutrition 2018, Boston, June, 2018, and at the National Nutrient Databank Conference, Minneapolis, July, 2018.

Brewster, P.J., **Guenther, P.M.**, Jordan, K.C., and Hurdle, J.F., 2017, The Grocery Purchase Quality Index: an innovative approach to assessing grocery food purchases. *Journal of Food Composition and Analysis* 64(1):119-126.

**Guenther, P.M.**, The Grocery Purchase Quality Index-2016: a tool for assessing
household food purchases. Presented at the USDA Economic Research Service, Washington, DC, May, 2017; University of North Carolina Global Food Research Program, Chapel Hill, NC, July, 2017; Purdue University Nutrition Science Graduate Student Seminar, West Lafayette, IN, September, 2017; Healthy Eating Research webinar, September, 2017; and NC2160 annual meeting, Spokane, WA, October, 2017.

Brewster, P.J., **Guenther, P.M.**, Durward, C.M., and Hurdle, J.F. Grocery Purchase Quality Index-2016 scores are moderately correlated with Healthy Eating Index-2010 scores in the Food Acquisition and Purchase Survey, 2012–13. *FASEB Journal* 2017;31(1):lb380 (abstract). Presented at Experimental Biology, Chicago, April, 2017.

Ricart, G., Brewster, P.J., and **Guenther, P.M.**, An improved method for scoring the moderation components of a diet quality index. *FASEB Journal* 2017;31(1):955.1 (abstract). Presented at Experimental Biology, Chicago, April, 2017.

Pieroth, R., Rigassio Radler, D., **Guenther, P.M.**, Brewster, P.J., and Marcus, A., 2017, The relationship between social support and diet quality in middle-aged and older adults in the United States, *Journal of the Academy of Nutrition and Dietetics* 117:1272.

Pieroth, R., Rigassio Radler, D., **Guenther, P.M.**, Brewster, P.J., and Marcus, A. The relationship between social support and diet quality in middle-aged and older adults in the U.S. Presented at the American Dietetic Association Food and Nutrition Conference and Exposition, October, 2016, Boston.

Brewster, P.J., **Guenther, P.M.**, Jordan, K.C., and Hurdle, J.F. An innovative approach to assessing food purchase behavior. Presented at the 39th National Nutrient Databank Conference, May, 2016, Alexandria, VA.

**Guenther, P.M.**, Evaluation of a novel, low cost, low burden, scalable technology for evaluating EFNEP and SNAP-Ed effectiveness. Presented at the annual meeting of NC2169 (the group charged with conducting research related to USDA’s Expanded Food and Nutrition Education Program), October, 2015, Portland, ME.

**Guenther, P.M.**, and Luick, B.R., 2015, Improved overall quality of diets reported by Expanded Food and Nutrition Education Program participants in the Mountain Region, *Journal of Nutrition Education and Behavior* 47:421-426.

Brewster, P.J., **Guenther, P.M.**, Jordan, K.C., and Hurdle, J.F. Development and validation of a novel household grocery food purchase quality score. *FASEB Journal* 29:131.3 (abstract). Presented at Experimental Biology, Boston, March, 2015.

Luick, B.R., and **Guenther, P.M.** The quality of diets reported by Expanded Food and Nutrition Education Program participants in the Mountain Region in 2011 when exiting the program was higher than when entering. *FASEB Journal* 28:273.8, 2014. *Journal of Nutrition Education and Behavior* 46:S185–S186. Presented at Experimental Biology, San Diego, April, 2014; the 38th National Nutrient Databank Conference, Portland, Oregon, May, 2014; and the Society for Nutrition Education and Behavior Annual Meeting, Milwaukee, June, 2014.

**Guenther, P.M.**, Kirkpatrick, S.I., Reedy, J., Krebs-Smith, S.M., Buckman, D.W., Dodd, K.W., Casavale, K.O., and Carroll, R.J., 2014, The Healthy Eating Index-2010 is a valid and reliable measure of diet quality according to the 2010 Dietary Guidelines for Americans.

*Journal of Nutrition* 144:399-407.

Hiza, H.A.B., **Guenther, P.M.**, and Rihane, C.I., 2013, Diet quality of children age 2-17 years as measured by the Healthy Eating Index-2010. USDA Center for Nutrition Policy and Promotion *Nutrition Insight* No. 52.

**Guenther, P.M.,** Healthy Eating Index-2010: Development, evaluation, and population scores. Presented at Brigham Young University, Nutrition, Dietetics, and Food Science Department Seminar Series, Provo, UT, November 2014; the Centers for Disease Control and Prevention, National Center for Health Statistics Nutrition Seminar Series, Hyattsville, MD, July, 2013 (invited); and to the USDA Food and Consumer Services staff, Alexandria, VA, June, 2013.

**Guenther, P.M.,** Kirkpatrick, S.I., Krebs-Smith, S.M., Reedy, J., Buckman, D.W., Dodd, K.W., Casavale, K.O., and Carroll, R.J. Evaluation of the Healthy Eating Index-2010 (HEI- 2010), *FASEB Journal* 27:230.5 (abstract). Presented at Experimental Biology, Boston,

April, 2013.

**Guenther, P.M.**, Kirkpatrick, S.I., Reedy, J., Casavale, K.O., Hiza, H.A.B., Kuczynski, K.J., Kahle, L.L., and Krebs-Smith, S.M., 2013, Diet quality of Americans in 2001-02 and 2007-08

as measured by the Healthy Eating Index-2010. USDA Center for Nutrition Policy and Promotion *Nutrition Insight* No. 51.

**Guenther, P.M.**, Kirkpatrick, S.I., Reedy, J., Casavale, K.O., Hiza, H.A.B., Kuczynski, K.J., Kahle, L.L., and Krebs-Smith, S.M., Diet quality of Americans in 2001-02 and 2007-08 as measured by the Healthy Eating Index-2010. Posted at the 37th National Nutrient Databank Conference website in lieu of a presentation because the Boston conference was cancelled, April, 2013.

**Guenther, P.M.**, Casavale, K.O., Reedy, J., Kirkpatrick, S.I., Hiza, H.A.B., Kuczynski, K.J., Kahle, L.L., and Krebs-Smith, S.M., 2013, Update of the Healthy Eating Index: HEI-2010.

*Journal of the Academy of Nutrition and Dietetics* 113:569-580.

**Guenther, P.M.**, Casavale, K.O., Krebs-Smith, S.M., Reedy, J., Kirkpatrick, S.I., Hiza, H.A.B., Kuczynski, K.J., Kahle, L.L., and Krebs-Smith, S.M., 2013, *Healthy Eating Index*. USDA Center for Nutrition Policy and Promotion, CNPP Fact Sheet No. 2.

Hiza, H.A., O’Connell, K.M., **Guenther, P.M.**, and Davis, C.A., 2013, Diet quality of Americans differs by age, gender, race/ethnicity, income and education level. *Journal of the Academy of Nutrition and Dietetics* 113:297-306.

**Guenther, P.M.**, O’Connell, K.M., Reedy, J., Kirkpatrick, S.I., Hiza, H.A.B., Kuczynski, K.J., and Krebs-Smith, S.M., Development of the Healthy Eating Index-2010. *FASEB Journal* 26:131.1 (abstract). Presented at Experimental Biology, San Diego, April, 2012.

O’Connell, K.M., **Guenther, P.M.**, Hiza, H.A.B., and Davis, C.A. Diet quality of children 2- 17 years, as measured by the Healthy Eating Index-2005, differs by age, gender, race/ethnicity and family income. Presented at the American Public Health Association Annual Meeting and Exposition, Washington, DC, November, 2011.

**Guenther, P.M.**, Dietary Guidelines for Americans: How Americans measure up and how you can help. Presented at the Onlife Health Client Summit, Nashville, August, 2011.

Zhang, S., Midthune, D., **Guenther, P.M.**, Krebs-Smith, S.M., Kipnis, V., Dodd, K.W., Buckman, D.W., Tooze, J.A., Freedman, L.S., and Carroll, R.J., 2011, A new multivariate measurement error model with zero-inflated dietary data and its application to dietary assessment. [*Annals of Applied Statistics*](http://projecteuclid.org/handle/euclid.aoas)5(2B):1456-1487.

Hiza, H.A., O’Connell, K.M., **Guenther, P.M.**, and Davis, C.A., 2011, Diet quality of American adults, 18-64 years of age, as measured by the Healthy Eating Index-2005, differs by race/ethnicity and income level. *FASEB Journal* 24:342.1 (abstract). Presented at Experimental Biology, Washington, DC, April, 2011.

Freedman, L.S., **Guenther, P.M.**, Krebs-Smith, S.M., Dodd, K.W., and Midthune, D.A., 2010, population’s distribution of Healthy Eating Index-2005 component scores can be estimated when more than one 24-hour recall is available. *Journal of Nutrition* 140:1529–1534.

Freedman, L.S., **Guenther, P.M.**, Dodd, K.W., Krebs-Smith, S.M., and Midthune, D.A., 2010, The population distribution of ratios of usual intakes of dietary components that are consumed every day can be estimated from repeated 24-hour recalls. *Journal of Nutrition* 140:111-116.

Hiza, H.A.B., **Guenther, P.M.**, O’Connell, K., and Davis, C.A., 2010, Diet quality of Americans 65 years and older, *FASEB Journal* 24:93.1 (abstract). Presented at Experimental Biology, Anaheim, April, 2010.

**Guenther, P.M.**, Diet quality of children as assessed by the Healthy Eating Index-2005: results of the National Health and Nutrition Examination Survey. Presented at the University of Maryland School of Medicine, Department of Pediatrics, Baltimore, April, 2010. (Invited).

Carlson, A., Lino, M., Fungwe, T., and **Guenther, P.M.**, The link between food expenditure and diet quality: does it exist? Presented at the joint annual meeting of the Agricultural and Applied Economics Association and the American Council on Consumer Interests, Milwaukee, July, 2009.

Fungwe, T., **Guenther, P.M.**, Juan, W.Y., Hiza, H., and Lino, M., 2009, The quality of children’s diets in 2003-04 as measured by the Healthy Eating Index-2005. USDA Center for Nutrition Policy and Promotion *Nutrition Insight* No. 43.

**Guenther, P.M.**, Juan, W.Y., Lino, M., Hiza, H.A., Fungwe, T.V., and Lucas, R., 2009, Diet quality of low-income and higher income Americans in 2003-04 as measured by the Healthy Eating Index-2005. *FASEB Journal* 23:540.5. Presented at Experimental Biology, New Orleans, April, 2009, and at the National Health Statistics Conference, Washington, DC, August, 2010.

**Guenther, P.M.**, Juan, W.Y., Lino, M., Hiza, H.A., Fungwe, T., and Lucas, R., 2008, Diet quality of low-income and higher income Americans in 2003-04 as measured by the

Healthy Eating Index-2005. USDA Center for Nutrition Policy and Promotion *Nutrition Insight* No. 42.

Juan, W.Y., **Guenther, P.M.**, and Kott, P.S., 2008, Diet quality of older Americans in 1994-96 and 2001-02 as measured by the Healthy Eating Index-2005. USDA Center for Nutrition Policy and Promotion *Nutrition Insight* No. 41.

Juan, W.Y., **Guenther, P.M.**, and Kott, P.S., Diet quality of older Americans in 1994-1996 and 2001-2002 as measured by the Healthy Eating Index-2005. Presented at the annual meeting of the American Public Health Association, San Diego, October, 2008.

**Guenther, P.M.**, Reedy, J., and Krebs-Smith, S.M., 2008, Development of the Healthy Eating Index-2005, *Journal of the American Dietetic Association* 108:1896-1901.

**Guenther, P.M.**, Reedy, J., Krebs-Smith, S.M., and Reeve, B.B., 2008, Evaluation of the Healthy Eating Index-2005. *Journal of the American Dietetic Association* 108:1854-1864.

**Guenther, P.M.**, Development and evaluation of the Healthy Eating Index-2005: a tool for assessing diet quality. Presented at the National Expanded Food and Nutrition Education Program Coordinators’ Conference, Washington, DC, March, 2011 (invited); Johns Hopkins University, Bloomberg School of Public Health, Baltimore, November, 2008 (invited);

Brigham Young University, Department of Nutrition, Dietetics and Food Science, Provo, Utah, October, 2008; American Dietetic Association Food and Nutrition Conference and Exposition, Philadelphia, October, 2007 (invited); University of Utah, Department of Foods and Nutrition, Salt Lake City, April, 2007 (invited); Utah Dietetic Association annual meeting, Layton, April, 2007 (invited); California Childhood Obesity Conference, Anaheim, January,

2007 (invited); Beltsville Human Nutrition Research Center, Beltsville, Maryland, December, 2006 (invited); American Dietetic Association Food and Nutrition Conference and Exhibition, Honolulu, September, 2006; National Nutrient Databank Conference, Honolulu, September, 2006; National Center for Health Statistics Data Users’ Conference, Washington, DC, July, 2006; International Conference on Dietary Assessment Methods, Copenhagen, April, 2006; USDA Human Nutrition Coordinating Committee, Washington, DC, March, 2006; National Institutes of Health Nutrition Coordinating Committee, Rockville, Maryland, February, 2006 (invited); and USDA Agricultural Research Service FoodLink symposium, Washington, DC, November, 2005 (invited).

Freedman, L.S., **Guenther, P.M.**, Krebs-Smith, S.M., and Kott, P.S., 2008, A population’s mean Healthy Eating Index-2005 scores are best estimated by the score of the population ratio when one 24-hour recall is available. *Journal of Nutrition* 138:1725-1729.

**Guenther, P.M.**, Juan, W.Y., Reedy, J., Britten, P., Lino, M., Carlson, A., Hiza, H.A., and Krebs-Smith, S.M., 2008, Diet quality of Americans in 1994-1996 and 2001-2002 as measured by the Healthy Eating Index-2005, *FASEB Journal* 22:868.4. Presented at Experimental Biology, San Diego, April, 2008.

**Guenther, P.M.**, Juan, W.Y., Reedy, J., Britten, P., Lino, M., Carlson, A., Hiza, H.A., and Krebs-Smith, S.M., 2007, Diet quality of Americans in 1994-1996 and 2001-2002 as measured by the Healthy Eating Index-2005. USDA Center for Nutrition Policy and Promotion *Nutrition Insight* No. 37.

**Guenther, P.M.**, Reedy, J., Krebs-Smith, S.M., Reeve, B.B., and Basiotis, P.P., 2007, *Development and Evaluation of the Healthy Eating Index-2005: Technical Report.* Center for Nutrition Policy and Promotion, U.S. Department of Agriculture.

**Guenther, P.M.**, Reeve, B.B., Reedy, J., Krebs-Smith, S.M., and Basiotis, P.P., 2007, Evaluation of the psychometric properties of the revised Healthy Eating Index, *FASEB Journal* 21:A52 (abstract). Presented at Experimental Biology, Washington, DC, May, 2007.

**Guenther, P.M.**, Krebs-Smith, S.M., Reedy, J., Britten, P., Juan, W.Y., Lino, M.L., Carlson, A., Hiza, H., and Basiotis, P.P., 2006, *Healthy Eating Index-2005*. USDA Center for Nutrition Policy and Promotion, CNPP Fact Sheet No. 1.

**Guenther, P.M.**, Reedy, J., Krebs-Smith, S.M., Reeve, B.B., and Basiotis, P.P., 2006, The revised Healthy Eating Index: a tool for measuring change in diet quality. *Journal of the American Dietetic Association* 106:A-68 (abstract). Presented at the American Dietetic Association Food and Nutrition Conference and Exposition, Honolulu, September, 2006.

**Guenther, P.M.**, Reedy, J., Krebs-Smith, S.M., and Basiotis, P.P., Index-based approaches: USDA’s revised Healthy Eating Index. Presented at the Experimental Biology workshop on

“Dietary Patterns: Challenges and Opportunities in Dietary Patterns Research,” San Francisco, April, 2006.

Basiotis, P.P., **Guenther, P.M.**, Lino, M., and Britten, P., 2006, Americans consume too many calories from solid fat, alcohol, and added sugar. USDA Center for Nutrition Policy and Promotion. *Nutrition Insight* No. 33.

## Dietary Guidance-related Research:

Cowan, A.E, Tooze, J.A, Gahche, J.J., Eicher-Miller, H.A., **Guenther, P.M**., Dwyer, J.T., Potischman, N., Bhadra, A., Carroll, R.J., and Bailey, R.L., 2023, Trends in overall and micronutrient-containing dietary supplement use among U.S. adults and children, NHANES 2007-2018. *Journal of Nutrition* 152:2789-2801.

Atoloye, A.T., Savoie-Roskos, M.R., **Guenther, P.M.**, and Durward, C.M., Methods used in the systematic review of the effectiveness of the Expanded Food and Nutrition Education Program in changing nutrition-related outcomes among adults with low income. Presented online at the Society for Nutrition Education and Behavior Spring Journal Club, April, 2022.

Jun, S., Cowan, A. E., Dodd, K.W., Tooze, J.A., Gahche, J.J., Eicher-Miller, H.A., **Guenther, P.M.**, Dwyer, J.T., Potischman N., Bhadra, A., Forman, M.R., and Bailey, R.L., 2021, The association of food insecurity with dietary intakes and nutritional biomarkers among U.S. children, National Health and Nutrition Examination Survey (NHANES) 2011-2016. *American Journal of Clinical Nutrition* 114:1059-1069.

Atoloye, A.T., Savoie-Roskos, M.R., **Guenther, P.M.**, and Durward, C.M., 2021, Effectiveness of Expanded Food and Nutrition Education Program (EFNEP) in changing nutrition-related outcomes among adults with low income: a systematic review. *Journal of Nutrition Education and Behavior* 53:691-705.

Thompson, H.J., Levitt, J.O., McGinley, J.N., Chandler, P., **Guenther, P.M.**, Huybrechts, I., and Playdon, M.C., 2021, Measuring dietary botanical diversity as a proxy for phytochemical exposure. *Nutrients* 13:1295.

Cowan, A.E., Jun, S., Tooze, J.A., Dodd, K.W., Gahche, J.J., Eicher-Miller, H.A., **Guenther, P.M.**, Bhadra, A., and Bailey, R.L. The development of a total nutrient index using nationally representative data from adults in the United States. *International Conference on Diet & Activity Methods: a global twenties vision, Abstract Book*, p. 115. Available at icdamportal.org/past-meetings.html. Presented at the International Conference on Diet and Activity Methods, February 8-12, 2021, hosted virtually by Wageningen University and Research, the Netherlands.

Cowan, A.E., Jun, S., Tooze, J.A., Dodd, K.W., Gahche, J.J., Eicher-Miller, H.A., **Guenther, P.M.**, Dwyer, J.T., Moshfegh, A.J., Rhodes, D.G., Bhadra, A., and Bailey, R.L., 2020, Comparison of four methods to assess the prevalence of use and estimates of nutrient intakes from dietary supplements among U.S. adults, *Journal of Nutrition* 150(4):884–893.

Jun, S., Cowan, A.E., Gahche, J.J., Tooze, J.A., Dodd, K.W., Eicher-Miller, H.A., **Guenther, P.M.**, Dwyer, J.T., Potischman,N., Bhadra, A., and Bailey, R.L. Comparison of four methods to estimate the prevalence of dietary supplement use among U.S. children. *Current Developments in Nutrition* 4(S2):1172, 2020 (abstract). Presented online at Nutrition 2020, the American Society of Nutrition virtual annual meeting, June, 2020.

Cowan, A.E., Jun, S., Tooze, J.A., Dodd, K.W., Gahche, J.J., Eicher-Miller, H.A., **Guenther, P.M.**, Dwyer, J.T., Potischman, N., Bhadra, A., and Bailey, R.L. An analysis of four proposed measures for estimating distributions of total vitamin D intake among adults using NHANES, 2011-2012. *Current Developments in Nutrition* 4(S2):1390, 2020 (abstract). Presented online at Nutrition 2020, June, 2020.

Jun, S., Cowan, A.E., Bhadra, A., Dodd, K.W., Dwyer, J.T., Eicher-Miller, H.A., Gahche, J.J., **Guenther, P.M.**, Potischman, N., Tooze, J.A., and Bailey, R.L., 2020, Older adults with obesity have higher risks of some micronutrient inadequacies and lower overall dietary quality compared to peers with a healthy weight, National and Nutrition Examination Surveys, 2011-2014, *Public Health Nutrition* 23(13):2268-2279.

Jun, S., Gahche, J.J., Potischman, N., Dwyer, J.T., **Guenther, P.M.**, Sauder, K.A., and Bailey, R.L., 2020, Dietary supplement use and its micronutrient contribution among pregnant and lactating U.S. women, *Obstetrics & Gynecology* 135(3):623-633.

Cowan, A.E., Jun, S., Tooze, J.A., Eicher-Miller, H.A., Dodd, K.W., Gahche, J.J., **Guenther, P.M.**, Dwyer, J.T., Potischman, N., Bhadra, A., and Bailey, R.L., 2020, Total usual micronutrient intakes compared to the Dietary Reference Intakes among U.S. adults by food security status, *Nutrients* 12(1):38.

Jun, S., Cowan, A.E., Tooze, J.A., Gahche, J.J., Dwyer, J.T., Eicher-Miller, H.A., Bhadra, A., **Guenther, P.M.**, Potischman, N., Dodd, K.W., and Bailey, R.L., 2018, Dietary supplement use among U.S. children by family income, food security level, and nutrition assistance program participation status in 2011-2014. *Nutrients* 10(9):1212.

Jun, S., Cowan, A.E., Tooze, J.A., Eicher-Miller, H.A., Bhadra, A., **Guenther, P.M.**, Gahche, J.J., Potischman, N., Dwyer, J.T., and Bailey, R.L. Dietary supplement use is higher among US children in higher-income households compared with children in lower income households. *Current Developments in Nutrition* 2(11), 2018 (abstract). Presented at Nutrition 2018, Boston, June, 2018.

Cowan, A.E., Jun, S., Gahche, J.J., Tooze, J.A., Dwyer, J.T., Eicher-Miller, H.A., Bhadra, A., **Guenther, P.M.**, Potischman, N., Dodd, K.W., and Bailey, R.L., 2018, Characteristics of dietary supplement use differs with poverty and lifestyle indicators among U.S. adults, NHANES 2011-2014. *Nutrients* 10(8):1114.

Murtaugh, M.A., Beasley, J.M., Appel, L.J., **Guenther, P.M.**, McFadden, M.L., Greene, T., and Tooze, J.A., 2018, The relationship between sodium intake and blood pressure varies with energy intake: a secondary analysis from the DASH-Sodium trial, *Hypertension* 71:858-865.

Burton-Freeman, B.M., **Guenther, P.M.**, Oh, M., Stuart, D., and Jensen, H.H., 2017, Assessing the consumption of berries and associated factors in the United States using the National Health and Nutrition Examination Survey (NHANES), 2007-2012, *Food & Function* Feb 21;9(2):1009-1016.

Murtaugh, M.A., Appel, L.A., Beasley, J.M., Greene, T., **Guenther, P.M.**, McFadden, M. and Tooze, J.A., Higher levels of sodium density (mg/kcal) are associated with increased blood

pressure independent of absolute Na (mg/day): Results from the Dietary Approaches to Stop Hypertension-Sodium Trial. *Circulation* 136, Suppl 1 (abstract). Presented at the American Heart Association Epi/Lifestyle Scientific Sessions, Portland, OR, March 7, 2017; the Utah

Academy of Nutrition and Dietetics annual meeting, Sandy, UT, March 30, 2017; and the American Heart Association Scientific Sessions, San Diego, November 14, 2017.

Subar, A.F., Freedman, L.S., Tooze, J.A., Kirkpatrick, S.I., Boushey, C., Neuhouser, M.L., Thompson, F.E., Potischman, N., **Guenther, P.M.**, Tarasuk, V., Reedy, J., and Krebs-Smith, S.M., 2015, Addressing current criticism regarding the value of self-report dietary data. *Journal of Nutrition* 145:2639-2645.

**Guenther, P.M.**, Ding, E.L., and Rimm, E.B., 2013, Alcoholic beverage consumption by adults compared to Dietary Guidelines: Results of the National Health and Nutrition Examination Survey, 2007-2008. *Journal of the Academy of Nutrition and Dietetics* 113:

546-550.

**Guenther, P.M.**, Lyon, J.M.G., and Appel, L.J., 2013, Modeling dietary patterns to assess sodium recommendations for nutrient adequacy. *American Journal of Clinical Nutrition* 97: 842-847.

O’Connell, K.O., Kuczynski, K., **Guenther, P.M.**, Rimm, E.B., Perez-Escamilla, R., and Britten, P., 2012, Increasing seafood in the USDA Food Patterns increases eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) and other nutrients. *FASEB Journal* 26:118.2 (abstract). Presented at Experimental Biology, San Diego, April, 2012.

**Guenther, P.M.**, Lyon, J.M.G., and Appel, L.J., Modeling sodium levels in the USDA Food Patterns. Presented at the American Dietetic Association Food and Nutrition Conference and Exposition, San Diego, September, 2011.

**Guenther, P.M.**, and Haven, J., Dietary Guidelines communications plan—a sneak peak. Presented at the Corporate Affiliates Meeting, Purdue University Department of Foods and Nutrition, West Lafayette, Indiana, March, 2011. (Invited).

**Guenther, P.M.**, Process used to develop the 2010 Dietary Guidelines for Americans. Presented at the National Nutrient Databank Conference, Grand Forks, July, 2010. (Invited).

Krebs-Smith, S.M., **Guenther, P.M.**, Subar, A.F., Kirkpatrick, S.I., and Dodd, K.W., 2010, Americans do not meet federal dietary recommendations. *Journal of Nutrition* 140:1832-1838.

Breslow, R.A., **Guenther, P.M.,** Juan, W.Y., and Graubard, B.I., 2010, Alcohol consumption and nutrient intakes in the U.S. adult population, 1999-2006. *Journal of the American Dietetic Association* 110:551-562.

**Guenther, P.M.**, Bowman, S.A., and Goldman, J.D., 2010, *Alcoholic Beverage Consumption by Adults 21 Years and Over in the United States: Results From the National Health and*

*Nutrition Examination Survey, 2003-2006: Technical Report*. Center for Nutrition Policy and Promotion, and Agricultural Research Service, U.S. Department of Agriculture.

Bowman, S.A., **Guenther, P.M.**, and Goldman, J.D., 2010, Alcoholic beverage consumption by adults 21 years and over in the United States: results from the National Health and Nutrition Examination Survey, 2003-2006. *FASEB Journal 24:560.9* (abstract)*.* Presented at Experimental Biology, Anaheim, April, 2010.

Britten, P., **Guenther, P.M.**, Marcoe, K., O’Connell, K., and Rihane, C., Development of a methodology to determine tiers of nutrient density within the major food groups of the USDA food guide, MyPyramid. Presented at the International Conference on Diet and Activity Methods, Washington, DC, June, 2009.

**Guenther, P.M.**, Britten, P., Marcoe, K., O’Connell, K., and Rihane, C. Defining nutrient density of foods according to tiers within the major food groups of the USDA food guide, MyPyramid. Presented at the National Nutrient Databank Conference, New Orleans, April, 2009.

Breslow, R.A., Juan, W.Y., Chen, C., and **Guenther, P.M.**, Alcohol consumption and nutrient intakes: potential for confounding. Presented at the Research Society on Alcoholism, Washington, DC, June, 2008.

Britten, P., Marcoe, K., Juan, W.Y., **Guenther, P.M.**, and Carlson, A., 2007, Trends in consumer food choices within the MyPyramid milk group. USDA Center for Nutrition Policy and Promotion. *Nutrition Insight* No. 35.

Moeller, S.M., Reedy, J., Millen, A.E., Dixon, L.B., Newby, P.K., Tucker, K.L., Krebs-Smith, S.M., and **Guenther, P.M.**, 2007, Dietary patterns: challenges and opportunities in dietary patterns research. *Journal of the American Dietetic Association* 107:1233-1239.

Breslow, R.A., **Guenther, P.M**., and Smothers, B.A., 2006, Drinking patterns and diet quality: National Health and Nutrition Examination Survey (NHANES 1999-2000). *American Journal of Epidemiology* 163:359-366.

Breslow, R.A., Juan, W.Y., and **Guenther, P.M.**, Dietary intakes of nutrients in drinkers: National Health and Nutrition Examination Survey (NHANES 1999-2002). Presented at the American Public Health Association annual meeting, Boston, November, 2006.

**Guenther, P.M.**, Dodd, K.W., Reedy, J., and Krebs-Smith, S.M., 2006, Most Americans eat much less than recommended amounts of fruits and vegetables. *Journal of the American Dietetic Association* 106:1371-1379.

**Guenther, P.M.**, Dodd, K.W., Reedy, J., and Krebs-Smith, S.M., Sixty percent of Americans eat less than five servings of fruits and vegetables a day. Presented at Experimental Biology, San Diego, April, 2005, and at the Utah Dietetic Association annual meeting, Salt Lake City, April, 2005.

Breslow, R.A., **Guenther, P.M.**, and Smothers, B.A., Measures of alcohol intake and diet quality. Presented at Experimental Biology, April, 2005, and the Utah Dietetic Association annual meeting, Salt Lake City, April, 2005.

**Guenther, P.M.**, and Vafiadis, D.K., Dietary Guidelines for Americans. Presented at the American Council of Consumer Interests annual meeting, Columbus, Ohio, April, 2005, and the USDA Cooperative State Research, Education, and Extension Service Food Safety and Nutrition Conference, Baltimore, March, 2005.

**Guenther, P.M.**, Juan, W.Y., and Vafiadis, D.K., 2005, Nutrient intakes and overall diet quality in moderate drinkers. Report prepared for the alcohol subcommittee of the Dietary Guidelines Advisory Committee. *In:* Dietary Guidelines Advisory Committee, 2004, Report of

the Dietary Guidelines Advisory Committee on the Dietary Guidelines for Americans, 2005.

U.S. Department of Agriculture, Agricultural Research Service, pp. 322-330.

## Dietary Reference Intakes:

**Guenther, P.M.**, Development of MyPyramid: An application of the Dietary Reference Intakes. Presented at the meeting of the Korean Nutrition Society, New Orleans, April, 2009. (Invited).

Yetley, E.A., Brulé, D., Cheney, M.C., Davis, C.D., Esslinger, K.A., Fischer, P.W.F., Friedl, K.E., Greene-Finestone, L.S., **Guenther, P.M.**, Klurfeld, D.M., L'Abbe, M.R., McMurry, K.Y., Starke-Reed, P.E., and Trumbo, P.R., 2009, Dietary Reference Intakes for vitamin D: justification for a review of the 1997 values. *American Journal of Clinical Nutrition* 89:

719-727.

Institute of Medicine, 2008, *Development of DRIs 1994-2004: Lessons Learned and New Challenges*—*Workshop Summary*. Washington, DC: The National Academies Press, pp. 110-

111. Invited discussant.

**Guenther, P.M.**, 2007, Research recommendations for DRI applications. *In:* Suitor, C.W., and Meyers, L.D. (eds): *Dietary References Intakes Research Synthesis*, Washington, DC: The National Academies Press, pp. 145-148.

Murphy, S.P., **Guenther, P.M.**, and Kretsch, M.J., 2006, Using the Dietary Reference Intakes to assess intakes of groups: pitfalls to avoid. *Journal of the American Dietetic Association* 106:1550-1553.

Food and Nutrition Board, Institute of Medicine, Meeting on statistical aspects of setting Dietary Reference Intakes, Washington, DC, December, 1995. Invited participant.

## Usual Dietary Intake Methods:

Kirkpatrick, S.I., **Guenther, P.M.**, Subar, A.F., Krebs-Smith, S.M., Herrick, K.A., Freedman, L.S., and Dodd, K.W., 2022, Using short-term dietary intake data to address research questions related to usual dietary intake among populations and subpopulations: Assumptions, statistical techniques, and considerations. *Journal of the Academy of Nutrition and Dietetics* 122:1246–1262.

Bailey, R.L., Dodd, K.W., Gahche, J.J., Dwyer, J.T., Cowan, A.E., Jun, S., Eicher-Miller, H.A., **Guenther, P.M.**, Bhadra, A., Thomas, P.R., Potischman, N., Carroll, R.J., and Tooze, J.A., 2019, Best practices for dietary supplement assessment and estimation of total usual nutrient intakes in population-level research and monitoring. *Journal of Nutrition* 149:181-197.

Bailey, R.L., Dodd, K.D., Tooze, J.A., Gahche, J.A., Cowan, A.E., Jun, S., **Guenther, P.M.**, Potischman, N., Eicher-Miller, H.A., Bhadra, A., and Dwyer, J.T. Methodological challenges with incorporating nutrient intakes from dietary supplements with the diet to produce total usual nutrient intake estimates. *Current Developments in Nutrition* 2(11), 2018 (abstract). Presented at Nutrition 2018, Boston, June, 2018.

Carroll, R.J., Freedman, L.S., Kipnis, V., Midthune, D., Reedy, J., Krebs-Smith, S.M., Subar, A.F., **Guenther, P.M.**, and Buckman, D.W. Dietary indices and measurement error. Presented at the International Conference on Diet and Activity Methods, Brisbane, September, 2015.

Kirkpatrick, S.I., **Guenther, P.M.**, and Dodd, K.W., 2013, The effects of recall sequence/mode and day of week on estimation of usual intake from 24-hour recall data: an analysis of the

2003-04 National Health and Nutrition Examination Survey. *FASEB Journal* 27:621.5 (abstract). Presented at Experimental Biology, Boston, April, 2013.

Tooze, J.A., Kipnis, V., Buckman, D.W., Carroll, R.J., Freedman, L.S., **Guenther, P.M.**, Krebs-Smith, S.M., Subar, A.F., and Dodd, K.W., 2010, A mixed-effects model approach for

estimating the distribution of usual intake of nutrients: the NCI method. *Statistics in Medicine* 29(27):2857-2868.

Kott, P.S., **Guenther, P.M.**, Wagstaff, D.A., Juan, W.Y., and Kranz, S., 2009, Fitting a linear model to survey data when the long-term average daily intake of a dietary component is an explanatory variable. *Survey Research Methods* 3(3):157-165.

Kott, P.S., **Guenther, P.M.**, Wagstaff, D.A., Juan, W.Y., and Kranz, S., Fitting a linear model to survey data when the long-term average daily intake of a dietary component is an explanatory variable. Presented at the Federal Committee on Statistical Methodology Research Conference, Washington, DC, November, 2009.

Kott, P.S., **Guenther, P.M.**, Wagstaff, D.A., Juan, W.Y., and Kranz, S., Instrumental variable regression with complex survey data when the long-term average daily intake of a dietary component is an explanatory variable measured with two 24-hour recalls. Presented at the International Conference on Diet and Activity Methods, Washington, DC, June, 2009.

**Guenther, P.M.**, Freedman, L.S., Midthune, D., Dodd, K.W., and Krebs-Smith, S.M., Estimating the population distribution of ratios of usual intakes of two dietary constituents that are consumed every day by nearly everyone. Presented at the International Conference on Diet and Activity Methods, Washington, DC, June, 2009.

Krebs-Smith, S.M., Buckman, D.W., Carroll, R.J., Dodd, K.W., Freedman, L.S., **Guenther, P.M.**, Kipnis, V., Midthune, D., Subar, A.F., and Tooze, J.A., A unified framework for estimating usual dietary intakes: the NCI method. Presented at the International Conference on Diet and Activity Methods, Washington, DC, June, 2009.

Kipnis, V., Midthune, D., Buckman, D.W., Dodd, K.W., **Guenther, P.M.**, Krebs-Smith, S.M., Subar, A.F., Tooze, J.A., Carroll, R.J., and Freedman, L.S., 2009, Modeling data with excess zeros and measurement error: application to evaluating relationships between episodically consumed foods and health outcomes. *Biometrics* 65:1003–1010.

**Guenther, P.M**., Buckman, D.W., Carroll, R.J., Dodd, K.W., Freedman, L.S., Kipnis, V., Krebs-Smith, S.M., Midthune, D., Subar, A.F., and Tooze, J.A., Challenges in the estimation of usual intake of foods and nutrients. Presented at the International Biometrics Society, Eastern North American Region meeting, Arlington, VA, March, 2008. (Invited).

Juan, W.Y., Basiotis, P.P., Britten, P., and **Guenther, P.M.**, Stability of within-person variances of nutrient intake over time, *FASEB Journal* 21:A712 (abstract). Presented at Experimental Biology, Washington, DC, May, 2007.

Dodd, K.W., **Guenther, P.M.**, Freedman, L.S., Subar, A.F., Kipnis, V., Midthune, D., Tooze, J.A., and Krebs-Smith, S.M., 2006, Statistical methods for estimating usual intake of

nutrients and foods: a review of the theory, *Journal of the American Dietetic Association* 106:1640-1650.

Subar, A.F., Dodd, K.W., **Guenther, P.M.**, Kipnis, V., Midthune, D., McDowell, M., Tooze, J.A., Freedman, L.F., and Krebs-Smith, S.M., 2006, The Food Propensity

Questionnaire: concept, development, and validation as a covariate in a model to estimate usual food intake. *Journal of the American Dietetic Association* 106:1556-1563.

Tooze, J.A., Midthune, D., Dodd, K.W., Freedman, L.S., Krebs-Smith, S.M., Subar, A.F., **Guenther, P.M.**, and Kipnis, V., 2006, A new statistical method for estimating the usual

intake of episodically consumed foods with application to their distribution. *Journal of the American Dietetic Association* 106:1575-1587.

Tooze, J.A., Freedman, L.S., Midthune, D., Dodd, K.W., Subar, A.F., Krebs-Smith, S.M., **Guenther, P.M**., and Kipnis, V., A statistical model for estimating the usual intake of foods:

description and applications. Presented at the International Conference on Dietary Assessment Methods, Copenhagen, April, 2006.

**Guenther, P.M.**, Dodd, K.W., Subar, A.F., Tooze, J.A., Midthune, D., Kipnis, V., and Krebs-Smith, S.M., 2004, Estimating how many people meet the Food Guide Pyramid

recommendations: the measurement problem and the data collection instruments. *Journal of Nutrition Education and Behavior* 36, Supp. 1:S31 (abstract). Presented at the Society for Nutrition Education annual conference, Salt Lake City, July, 2004.

Midthune, D., Tooze, J.A., Dodd, K.W., **Guenther, P.M.**, Krebs-Smith, S.M., Subar, A.F., and Kipnis, V., 2004, Estimating how many people meet the Food Guide Pyramid recommendations: the statistical model. *Journal of Nutrition Education and Behavior* 36, Supp. 1:S31 (abstract). Presented at the Society for Nutrition Education annual conference, Salt Lake City, July, 2004.

**Guenther, P.M.** Estimating how many people meet food-based dietary recommendations: the measurement problem. Presented at the National Center for Health Statistics Data Users’ Conference, Washington, DC, July, 2004.

Krebs-Smith, S.M., Subar, A.F., **Guenther, P.M.**, Tooze, J.A., Midthune, D., Kipnis, V., and Dodd, K.W., 2004, Food propensity questionnaires (FPQs) in the National Health and Nutrition Examination Survey (NHANES): A step in the evolution of usual dietary intake estimation. *FASEB Journal* 18(4):A480 (abstract). Presented at Experimental Biology, Washington, DC, April, 2004.

## Self-administered 24-hour Recall Development and Evaluation:

**Guenther, P.M.**, Durward, C., Dodd, K.W., Potischman, N., Zimmerman, T.P., Douglass, D., Atoloye, A.T., Kahle, L.L., Reedy, J. andKirkpatrick, S.I. Healthy Eating Index-2015 scores among adults derived from observed versus recalled dietary intake. Presented at the International Conference on Diet and Activity Methods, Limerick, Ireland, June, 2023.

Kirkpatrick, S.I., **Guenther, P.M.**, Durward, C., Douglass, D., Zimmerman, T.P., Kahle, L.L., Atoloye, A., Marcinow, M., Roskos, M.R., Herrick, K.A., and Dodd, K.W., 2022, The accuracy of portion size reporting on self-administered online 24-hour dietary recalls among women with low incomes. *Journal of the Academy of Nutrition and Dietetics* 2243-2256.

Kirkpatrick, S.I., **Guenther, P.M.**, Durward, C., Reedy, J., Zimmerman, T., Douglass, D., Kahle, L.L., Dodd, K.W., Atoloye, A., Potischman, N., and Subar, A.F., 2021, Healthy Eating Index scores based on true intake compared to recalled intake among adults. *Journal of the Academy of Nutrition and Dietetics* 121:2233-41.

Kirkpatrick, S.I., Potischman, N., Thompson, F., Zimmerman, T., Douglass, D., Dixit-Joshi, S., Dodd, K., Kahle, L., Solbak, N., Robson, P., Wallace, A., Haines, J., Hobin, E., Sacco, J., Raffoul, A., Gilsing, A., Mayhew, A., **Guenther, P.M.**, Durward, C., Park, Y., Mittl, B., Herrick, K., and Subar, A.F. Ten years of research on the feasibility and validity of the Automated Self-Administered 24-hour Dietary Assessment Tool: Lessons for the implementation of technology-enabled assessment. *International Conference on Diet & Activity Methods: a global twenties vision, Abstract Book,* p. 74. Available at icdamportal.org/past-meetings.html. Presented at the International Conference on Diet and Activity Methods, hosted virtually by Wageningen University and Research, the Netherlands, February, 2021.

Durward, C., Baker, S., Chidambaram, V., Franck, K., Kramer, H.S., McGirr, K., Savoie, K., Smith, J., Weir, C., Yerxa, K. and, **Guenther, P.M.**, 2019, Exploratory test of ASA24 to collect 24-hour recalls in the Expanded Food and Nutrition Education Program. *Journal of Nutrition Education and Behavior* 51(7):S107-S108. Presented at the Society for Nutrition Education Annual Conference, July, 2019, Orlando.

Spruance, L.A., Atoloye, A., Douglass, D., Zimmerman, T.P., **Guenther, P.M.**, Franck, K., Henson, T., Moore, C.J., Wood, G., and Durward, C.M., 2019, Pilot test of an online ASA24 training with EFNEP educators, *SAGE Open* 9(2), p. 2158244019844074.

Kirkpatrick, S.I., **Guenther, P.M.**, Douglass, D., Zimmerman, T., Kahle, L.L., Atoloye, A., Marcinow, M., Savoie-Roskos, M.R., Dodd, K.W., and Durward, C.M., 2019, The provision of assistance does not substantially impact the accuracy of 24-hour dietary recalls completed using the Automated Self-administered 24-hour Dietary Assessment Tool among women with low incomes. *Journal of Nutrition* 149:106-122.

Kirkpatrick, S., **Guenther, P.**, Douglass, D. Subar, A. Zimmerman, T. Kahle, L., Atoloye, A., Marcinow, M., Savoie Roskos, M., Dodd, K, and Durward, C. Accuracy of 24-hour recalls

completed by women with low incomes using the Automated Self-Administered 24-hour Dietary Assessment Tool (ASA24). *Current Developments in Nutrition* 2(11), 2018 (abstract). Presented at Nutrition 2018, Boston, June, 2018.

Spruance, L.A., Douglass, D., Zimmerman, T.P., **Guenther, P.M.**, Franck, K., Head, D., Millerberg, N., Moore, C.J., Wilson-Sweebe, K., Wood, G., and Durward, C.M., Online ASA24 training manual pilot-tested with Expanded Food and Nutrition Education Program (EFNEP) Educators. *Journal of Nutrition Education and Behavior* 49:S94-S95. Presented at the Society for Nutrition Education and Behavior Annual Conference, Washington, DC, July, 2017.

**Guenther, P.M.**, Validating the mobile ASA24 in the low income population. Presented at the mid-year virtual meeting of NC2169 (the group charged with conducting research related to USDA’s Expanded Food and Nutrition Education Program), June, 2016.

Subar, A.F., Crafts, J., Zimmerman, T.P., Wilson, M., Mittl, B., Islam, N.G., McNutt, S., Potischman, N., Buday, R., Hull, S.G., Baranowski, T., **Guenther, P.M.**, Willis, G., Tapia, R.,

and Thompson, F.E., 2010, Assessment of the accuracy of portion size reports using computer- based food photography aids in the development of an automated self-administered 24-hour recall**.** *Journal of the American Dietetic Association* 110:55-64.

Subar, A.F., Potischman, N., Thompson, F.E., Mittl, B., Tapia, R., Zimmerman, T.P., Hull, S.G., Crafts, J., Buday, R., **Guenther, P.M.**, McNutt, S.W., Willis, G., Islam, N., Bosire, C., Schatzkin, A., and Baranowski, T. The ASA24: A web-based, automated, self-administered

24-hour recall. Presented at the International Society for Behavioral Nutrition and Physical Activity Annual Meeting, Lisbon, June, 2009.

Subar, A.F., Thompson, F.E., Mittl, B., Tapia, R., Zimmerman, T.P., Hull, S.G., Crafts, J., Buday, R., **Guenther, P.M.**, McNutt, S.W., Willis, G., Islam, N., Bosire, C., Morrissette, M., Schatzkin, A., Baranowski, T., and Potischman, N., Development of the Automated,

Self-Administered 24-hour Dietary Recall (ASA24). Presented at the International Conference on Diet and Activity Methods, Washington, DC, June, 2009.

Subar, A.F., Potischman, N., Thompson, F.E., Tapia, R., Zimmerman, T.P., Hull, S. Mittl, B., Buday, R., Crafts, J., McNutt, S., **Guenther, P.**, Willis, G., Islam, N., Bosire, C., Morrissette, M., Schatzkin, A., and Baranowski, T., 2009, The Automated Self-Administered 24-hour

Dietary Recall (ASA24): publicly available from the National Cancer Institute (NCI). *FASEB Journal* 23:223.2 (abstract). Presented at Experimental Biology, New Orleans, April, 2009.

Zimmerman, T.P., Hull, S.G., Islam, N., McNutt, S.W., Potischman, N., Thompson, F.E., **Guenther, P.M.**, and Subar, A.F., Portion size assessment in the Automated Self- Administered 24-hour Dietary Recall. Presented at the International Conference on Diet and Activity Methods, Washington, DC, June, 2009.

Zimmerman, T.P., Hull, S.G., Islam, N., McNutt, S.W., Potischman, N., Thompson, F.E., **Guenther, P.M.**, and Subar, A.F., Developing portion questions for the Automated Self- Administered 24-hour Dietary Recall. Presented at the National Nutrient Databank Conference, New Orleans, April, 2009.

Zimmerman, T.P., Hull, S.G., McNutt, S., Mittl, B., Islam, N., **Guenther, P.M.**, Thompson, F.E., Potischman, N.A., and Subar, A.F., 2009, Challenges in converting an interviewer- administered food probe database to self-administration in the National Cancer Institute

Automated Self-administered 24-Hour Recall (ASA24). *Journal of Food Composition and Analysis* 22:S48-S51. Presented at the National Nutrient Databank Conference, Ottawa, May, 2008.

Hull, S.G., Zimmerman, T.P., McNutt, S., Mittl, B., Buday, R., Tapia, R., **Guenther, P.M.**, Baranowski, T., Islam, N., Thompson, F.E., Potischman, N.A., Morrissette, M., and Subar,

A.F. New web-based technology: the ASA24 interview. Presented at the National Nutrient Databank Conference, Ottawa, May, 2008.

Subar, A.F., Thompson, F.E., Potischman, N.A., Forsyth, B., Buday, R., Richards, D., McNutt, S.W., Hull, S.G., **Guenther, P.M.**, Schatzkin, A., and Baranowski, T., 2007, Formative research of a quick list for an automated, self-administered 24-hour dietary recall. *Journal of the American Dietetic Association* 107:1002-1007.

Subar, A.F., Buday, R., Thompson, F.E., Potischman, N.A., Willis, G., **Guenther, P.M.**, McNutt, S., Forsyth, B., Hull, S.G., Richards, D., Schatzkin, A., and Baranowski, T.

Development of a self-administered, automated 24-hour dietary recall for use in large-scale nutrition research. Presented at the National Nutrient Databank Conference, Honolulu, September, 2006.

Zimmerman, T.P., McNutt, S.W., McIntosh, A., Subar, A.F., Thompson, F.E., Potischman, N.A., and **Guenther, P.M.**, 2006, Developing a food list for use in a self-administered 24- hour recall, *Journal of the American Dietetic Association* 106:A-82 (abstract). Presented

at the American Dietetic Association Food and Nutrition Conference and Exposition, Honolulu, 2006.

McIntosh, A.G., Hull, S.G., McNutt, S.W., Zimmerman, T.P., Subar, A.F., Thompson, F.E., Potischman, N.A., and **Guenther, P.M.**, A systematic approach to adapting food probes from a national survey for a web-based, self-administered, 24-hour dietary recall. Presented at the International Conference on Dietary Assessment Methods, Copenhagen, April, 2006.

## Dietary Assessment of the U.S. Population and Subpopulations:

Sauder, K.A., Harte, R.N., Ringham, B.M., **Guenther, P.M.**, Bailey, R.L., Alshawabkeh, A., Cordero, J.F., Dunlop, A.L., Ferranti, E.P., Elliott, A.J., Mitchell, D.C., Hedderson, M.M., Avalos, L.A., Zhu, Y., Breton, C.V., Chatzi, L., Ran, J., Hertz-Picciotto, I., Karagas, M.R., Sayarath, V., Hoover, J., MacKenzie, D., Lyall, K., Schmidt, R.J., O’Connor, T.G., Barrett, E.S., Switkowski, K.M., Comstock, S.S., Kerver, J.M., Trasande, L., Tylavsky, F.A., Wright, R.J., Kannan, S., Mueller, N.T., Catellier, D.J., Glueck, D.H., and Dabelea, D. Disparities in risks of inadequate and excessive intake of micronutrients during pregnancy. *Journal of Nutrition* 151:3555-69.

Sauder, K.A., Harte, R.N., Ringham, B.M., **Guenther, P.M.**, Bailey, R.L., Alshawabkeh, A., Cordero, J.F., Dunlop, A.L., Ferranti, E.P., Elliott, A.J., Mitchell, D.C., Hedderson, M.M., Avalos, L.A., Zhu, Y., Breton, C.V., Chatzi, L., Ran, J., Hertz-Picciotto, I., Margaret R Karagas, M.R., Sayarath, V., Hoover, J., MacKenzie, D., Lyall, K., Schmidt, R.J., O’Connor, T.G., Barrett, E.S., Switkowski, K.M., Comstock, S.S., Kerver, J.M., Trasande, L., Tylavsky, F.A., Wright, R.J., Kannan, S., Mueller, N.T., Catellier, D.J., Glueck, D.H., and Dabelea, D., on behalf of program collaborators for Environmental influences on Child Health Outcomes. Sociodemographic and obesity-related disparities in risks of inadequate and excessive intake of micronutrients during pregnancy: the National ECHO Consortium. *Current Developments in Nutrition*, 5(S2):812 (abstract). Presented online at Nutrition 2021, the American Society of Nutrition virtual annual meeting, June, 2021.

Jun, S., Cowan, A., Bhadra, A., Dodd, K., Dwyer, J., Eicher-Miller, H., Gahche, J., **Guenther, P.**, Potischman, N., Tooze, J., and Bailey, R. Nutritional status of older adults who are overweight or obese compared to those with a healthy weight, NHANES 2011–2014. *Current Developments in Nutrition* 3(S1), 2019 (abstract). Presented at Nutrition 2019, Baltimore, June, 2019.

Au, L.E., Ritchie, L.D., Nhan, L., Woodward-Lopez, G.M., Kao, J., Gurzo, K., **Guenther, P.M.**, and Gosliner, W. School nutrition successes and opportunities for improvement post Healthy Hunger-Free Kids Act: The Healthy Communities Study. Presented at the International Society of Behavioral Nutrition and Physical Activity Annual Meeting, Prague, June, 2019.

Burton-Freeman, B., **Guenther, P.M.**, Oh, M., Stuart, D.A., and Jensen, H.H., Assessing the consumption of berries and associated factors in the United States using the National Health

and Nutrition Examination Survey (NHANES), 2007-2012, 2017, *Food & Function*, Feb 21;9(2):1009-1016.

**Guenther, P.M.**, Jensen, H.H., Oh, M., Stuart, D.A., and Burton-Freeman, B. Assessing fruit consumption and factors associated with it in the United States. Presented at the Berry Health Benefits Symposium, March, 2017, San Luis Obispo, CA. (Invited).

**Guenther, P.M.**, Jensen, H.H., Batres-Marquez, S.P., and Chen, C.F., 2005, Sociodemo- graphic, knowledge and attitudinal factors related to U.S. meat consumption, *Journal of the American Dietetic Association* 105:1266-1274.

**Guenther, P.M.**, Chen, C.-F., and Jensen, H.H., 2005, Folate intake by women of child- bearing age: the impact of fortification. USDA Center for Nutrition Policy and Promotion. *Nutrition Insight* 30.

**Guenther, P.M.**, Chen, C.-F., and Jensen, H.H. Folate intake by women of child-bearing age: the impact of fortification. Presented at the National Nutrient Databank Conference, San Diego, April, 2005, and the Utah Dietetic Association annual meeting, Salt Lake City, April, 2005.

**Guenther, P.M.**, Jensen, H.H., Oakland, M.J., Batres-Marquez, S.P., Chen, C.F., Kissack, P.A., and Snyder, C.W., 2000, Sociodemographic, knowledge and attitudinal factors related to meat consumption in the U.S. *Journal of the American Dietetic Association* 100:A-104 (abstract). Presented at the American Dietetic Association Food and Nutrition Conference and Exposition, Denver, October, 2000.

Mickle, S.M., Sebastian, R.S., **Guenther, P.M.**, and Novwerl, A., 1996, Diets of children: results of the 1994 Continuing Survey of Food Intakes by Individuals. *FASEB Journal* 10(3):A724 (abstract). Presented at Experimental Biology, Washington, DC, April, 1996.

Borrud, L.G., Krebs-Smith, S.M., Friedman, L., and **Guenther, P.M.**, 1993, Food and nutrient intakes of pregnant and lactating women in the United States. *Journal of Nutrition Education* 25:176-185.

Krebs-Smith, S.M., Kott, P.S., and **Guenther, P.M.**, 1989, Mean proportion and population proportion: two answers to the same question? *Journal of the American Dietetic Association* 89:671-676.

**Guenther, P.M.**, and Bertram, B.M., 1989, Trends in salt sales. *Journal of the American Dietetic Association* 89:938.

**Guenther, P.M.**, Current dietary status of American women: where do we go from here? Joncier Greene Memorial Lecture presented at the District of Columbia Metropolitan Area Dietetic Association annual meeting, Rosslyn, Virginia, September, 1988. (Invited).

**Guenther, P.M.**, Dietary guidelines and dietary practices of women in the U.S. Presented at the American Dietetic Association annual meeting, Atlanta, October, 1987. (Invited).

**Guenther, P.M.**, 1986, Beverages in the diets of American teenagers. *Journal of the American Dietetic Association* 86:493-499.

**Guenther, P.M.**, 1984, Beverages in the diets of American teenagers. Doctoral dissertation, University of Maryland. Ann Arbor, Michigan: University Microfilms International.

## Dietary Assessment Data:

Carlson, A., Lino, M., Juan, W.Y., Marcoe, K., Bente, L., Hiza, H.A.B., **Guenther, P.M.**, and Liebtag, E., 2008, *Development of the CNPP Prices Database*, USDA Center for Nutrition Policy and Promotion Report No. CNPP-22.

Bente, L., Carlson, A., Marcoe, K., Lino, M., Juan, W.Y., Hiza, H.A.B., **Guenther, P.M.**, and Basiotis, P.P., 2006, The development of the Thrifty Food Plan’s Prices Database. *Journal of the American Dietetic Association* 106:A-82 (abstract). Presented at the American Dietetic Association Food and Nutrition Conference and Exhibition, Honolulu, September, 2006.

Krebs-Smith, S.M., Troiano, R.P., **Guenther, P.M.**, Kahle, L.L., Dixon, L.B., and Dodd, K.W., Pyramid servings database to use in analyzing data from the Third National Health and Nutrition Examination Survey (NHANES III). Presented at the Fourth International Conference on Dietary Assessment Methods, Tucson, September, 2000.

**Guenther, P.M.**, and Jensen, H.H., 2000, Estimating energy contributed by fiber using a factor of 2 vs 4 kcal/g. *Journal of the American Dietetic Association* 100:944-946.

## Portion Sizes of Commonly Consumed Foods:

Krebs-Smith, S.M., **Guenther, P.M.**, Cook, A., Thompson, F.E., and Cucinelli, J., 1998, Quantification of portions consumed per eating occasion and in a day. *European Journal of Clinical Nutrition* 52(2): S29 (abstract). Presented at the International Conference on Dietary Assessment and Methods, Arnhem, the Netherlands, May, 1998; at the Utah Dietetic

Association annual meeting, Park City, May, 1998, and at the Arizona Dietetic Association annual meeting, Phoenix, June, 1998.

Krebs-Smith, S.M., **Guenther, P.M.**, Cook, A., Thompson, F.E., Cucinelli, J., and Udler, J., 1997, Foods *Commonly Eaten in the United States: Quantities Consumed per Eating Occasion and in a Day, 1989-91.* U.S. Department of Agriculture NFS Report No. 91-3.

Pao, E.M., Fleming, K.H., **Guenther, P.M.**, and Mickle, S.J., 1982, *Foods Commonly Eaten by Individuals: Amount per Day and per Eating Occasion.* Home Economics Research Report No. 44, Washington, DC: U.S. Department of Agriculture.

## 1988 USDA Bridging Study:

Principle investigator for research project to determine the effects of procedural differences between the USDA Nationwide Food Consumption Surveys conducted in 1977-78 and in 1987-

1. Contract manager for the data collection effort conducted under contract by National Analysts, 1987-1989. Products of this research:

**Guenther, P.M.**, Perloff, B.P., and Vizioli, T.L., 1994, Separating fact from artifact in changes in nutrient intake over time. *Journal of the American Dietetic Association* 94:270-275.

**Guenther, P.M.**, 1992, Effects of procedural differences in the Nationwide Food Consumption Survey. *Journal of Official Statistics* 8:87-95.

**Guenther, P.M.**, and Perloff, B.P., 1991, Effects of nutrient data changes on results of the NFCS 1977-88 and NFCS 1987-88. *In*: Murphy, S.P. (ed.), *16th National Nutrient Databank Conference Proceedings*, pp. 49-50. Presented at the National Nutrient Databank Conference, San Francisco, June, 1991. (Invited).

**Guenther, P.M.**, and Perloff, B.P., 1990, *Effects of Procedural Differences in the Nationwide Food Consumption Survey on Estimates of Food and Nutrient Intakes: Results of the USDA 1988 Bridging Study,* NFCS Report No. 87-M-1. Washington, DC: U.S. Department

of Agriculture.

**Guenther, P.M.**, Effects of procedural differences in a dietary survey. Presented at the International Conference on Measurement Errors in Surveys, Tucson, November, 1990.

**Guenther, P.M.**, 1990, Effects of procedural differences in the Nationwide Food Consumption Survey. *In: American Statistical Association 1990 Proceedings of the Section on Survey Research Methods,* pp. 177-185. Presented at the American Statistical Association annual meeting, Anaheim, August, 1990. (Invited).

**Guenther, P.M.**, Effects of procedural differences in the Nationwide Food Consumption Survey. Presented at the Washington Statistical Society meeting, Washington, DC, June, 1990. (Invited).

**Guenther, P.M.**, 1990, Effects of procedural differences in a dietary survey. *FASEB Journal* 4 (3):A786 (abstract). Presented at the Federation of American Societies for Experimental Biology annual meeting, Washington, DC, April, 1990.

## Earlier Usual Food and Nutrient Intake Methods Research:

Project officer for a cooperative agreement with Iowa State University Department of Statistics to develop statistical methods and software to estimate distributions of usual dietary intake distributions, 1991-1996. Products of this research:

**Guenther, P.M.**, Kott, P.K., and Carriquiry, A.L., 1997, Development of an approach for estimating usual nutrient intake distributions at the population level. *Journal of Nutrition* 127:1106-1112.

Nusser, S.M., Fuller, W.A., and **Guenther, P.M.**, 1997, Estimating usual dietary intake distributions: adjusting for measurement error and nonnormality in 24-hour food intake data. *In:* Lyberg, L., Biemer, P., Collins, M., DeLeeuw, E., Dippo, C., Schwarz, N., and Trewin, D. (eds.), *Survey Measurement and Process Quality*, New York: Wiley and Sons, pp. 689-292.

Nusser, S.M., and **Guenther, P.M.**, 1997, Estimating distributions of usual food intake. *American Journal of Clinical Nutrition* 65:1330S (abstract). Presented at the Second International Conference on Dietary Assessment Methods, Boston, January, 1995.

Kott, P.S., **Guenther, P.M.**, and Sempos, C.T., 1997, Using multiday data from the Continuing Survey of Food Intakes by Individuals and the Iowa State University method to remove within-person variability from a 1-d dietary data set. *American Journal of Clinical Nutrition* 65:1329S (abstract). Presented at the Second International Conference on Dietary Assessment Methods, Boston, January, 1995.

**Guenther, P.M.**, and Kott, P.S., 1996, *Within- and Between-Person Coefficients of Variation for Nutrient Intakes in the United States, 1994.* National Agricultural Statistics Service Research Report Number RD-96-01.

**Guenther, P.M.**, and Kott, P.S., Problems in estimating usual dietary intakes. Presented at the Washington Statistical Society seminar series, Bethesda, Maryland, February, 1995. (Invited).

**Guenther, P.M.**, and Kott, P.S., Problems in estimating usual dietary intakes. Presented at the Beltsville Human Nutrition Research Center seminar series, Beltsville, Maryland, February, 1995.

**Guenther, P.M.**, and Kott, P.S., 1994, Problems in estimating usual dietary intakes. *In: American Statistical Association 1994 Proceedings of the Section on Epidemiology*, pp. 44-48. Presented at the American Statistical Association annual meeting, Toronto, Ontario, August, 1994. (Invited).

**Guenther, P.M.**, Estimation strategies for nutrient intake distributions. Presented at the Dietary Data Requirements of Federal Users Workshop, College Park, Maryland, August, 1994. (Invited).

**Guenther, P.M.**, 1994, Adjusting for intra-individual variability when estimating nutrient intakes. *In*: Hoover, L.W., and Perloff, B.P. (eds.), *19th National Nutrient Databank Conference Proceedings*, pp. 107-109. Presented at the National Nutrient Databank Conference, St. Louis, May, 1994. (Invited).

Carriquiry, A.L., Jensen, H.H., Fuller, W.A., and **Guenther, P.M.**, 1994, Methods for

estimating usual intake distributions, *American Journal of Clinical Nutrition* 59:305S (abstract).

Carriquiry, A.L., Jensen, H.H., **Guenther, P.M.**, and Fuller, W.A., 1992, A method for estimating usual intake distributions. *FASEB Journal* 6(4):A1208 (abstract). Presented at Experimental Biology, Anaheim, April, 1992.

## Earlier Dietary Data Collection Methods Research:

Mickle, S.J., Vecchio, F.A., and **Guenther, P.M.**, 1998, Recent and current Continuing Survey of Food Intakes by Individuals methodological research. *In: 21st National Nutrient Databank Conference Proceedings.* Baton Rouge: Pennington Biomedical Research Foundation,

pp. 92-97. Presented at the 21st National Nutrient Databank Conference, Baton Rouge, June, 1996.

Cypel, Y.S., **Guenther, P.M.**, and Petot, G.J., 1997, Validation of portion size measurement aids—a review. *Journal of the American Dietetic Association* 97:289-292.

**Guenther, P.M.**, 1994, Research needs for dietary assessment and monitoring in the United States. *American Journal of Clinical Nutrition* 59:168S-170S (abstract). Presented at the International Conference on Dietary Assessment Methods, St. Paul, Minnesota, September, 1992. (Invited).

**Guenther, P.M.**, Methods used by USDA to measure fish consumption. Presented at the Environmental Protection Agency Fish Consumption Survey Methodology Workshop, Washington, DC, December, 1991. (Invited).

Krebs-Smith, S.M., and **Guenther, P.M.**, Personal interview surveys: the USDA experience. Presented at the National Conference on Cholesterol and High Blood Pressure Control, Washington, DC, April, 1991.

**Guenther, P.M.**, and Pao, E.M., 1987, Dietary intake measurement in USDA Nationwide Food Consumption Surveys, 1977-1987. *Federation Proceedings* 46(3):1016 (abstract). Presented at the Federation of American Societies for Experimental Biology annual meeting, Washington, DC, April, 1987.

**Guenther, P.M.**, and Pao, E.M., 1987, Dietary intake measurement in USDA Nationwide Food Consumption Surveys, 1977-1987. *In: Research on Survey Methodology,* U.S.

Department of Agriculture, Human Nutrition Information Service Administrative Report No. 382, pp. 1-4.

Project officer for collaborative agreement with the U.S. Bureau of the Census, Center for Survey Methods Research to develop improved dietary data collection methods, 1991-1995. Products of this research:

**Guenther, P.M.**, Cleveland, L.E., and Ingwersen, L.A., 1997, Questionnaire Development and Data Collection Procedures. *In*: Tippett, K.S., and Cypel, Y.S (eds.), *Design and Operation: The Continuing Survey of Food Intakes by Individuals and the Diet and Health Knowledge Survey, 1994-96.* U.S. Department of Agriculture, Agricultural Research Service, Nationwide Food Surveys Report No. 96–1, pp. 42-45.

**Guenther, P.M.**, DeMaio, T.J., Ingwersen, L.A., and Berlin, M., 1997, The multiple- pass approach for the 24-h recall in the Continuing Survey of Food Intakes by Individuals

1994-1996. *American Journal of Clinical Nutrition* 65:1316S (abstract). Presented at the Second International Conference on Dietary Assessment Methods, Boston, January, 1995.

**Guenther, P.M.**, DeMaio, T.J., Ingwersen, L.A., and Berlin, M., 1996. The multiple-pass approach for the 24-hour recall in the Continuing Survey of Food Intakes by Individuals, 1994-

96. *FASEB Journal* 10(3):A198 (abstract). Presented at Experimental Biology, Washington, DC, April, 1996.

**Guenther, P.M.**, DeMaio, T.J., Ingwersen, L.A., and Berlin, M., 1996, The multiple-pass approach for the 24-hour recall in the Continuing Survey of Food Intakes by Individuals (CSFII) 1994-96. Presented at the Agricultural Research Service, Beltsville Human Nutrition Research Center Survey Resources Day, Riverdale, MD, March, 1996.

**Guenther, P.M.**, DeMaio, T.J., Ingwersen, L.A., and Berlin, M., 1995, The multiple-pass approach for the 24-hour recall in the Continuing Survey of Food Intakes by Individuals (CSFII) 1994-96. *Proceedings of Beltsville Agricultural Research Center Poster Day 1995*,

p. 11 (abstract). Presented at the Beltsville Agricultural Research Center Poster Day, Beltsville, MD, March, 1995.

Project officer for a cooperative agreement with the University of Maryland Survey Research Center to develop improved dietary data collection methods for children, 1991-1993. Product of this research:

Cypel, Y.S., Ciochetto, S., Ryan, C., and **Guenther, P.M.**, 1993, Dietary methodology research at the USDA's Human Nutrition Information Service. *FASEB Journal* 7(3): A411 (abstract). Presented at Experimental Biology, New Orleans, April, 1993.

## Impact of Food Eaten Away from Home on Dietary Quality:

**Guenther, P.M.**, and Ricart, G., 1989, The effect of eating at foodservice establishments on the nutritional quality of women's diets. *Topics in Clinical Nutrition* 4(2):41-45.

**Guenther, P.M.**, and Ricart, G., 1988, Effect of eating at foodservices on the nutritional quality of women's diets. *Tenth International Congress of Dietetics: Abstracts*, Paris: John

Libbey Eurotext, p. 21. Presented at the Tenth International Congress of Dietetics, Paris, July, 1988.

**Guenther, P.M.**, and Ricart, G., 1988, Effect of eating at foodservices on the nutritional quality of women's diets. *In: Dietetics in the 90s: Role of the Dietitian/Nutritionist,* Vol. I, Paris: John Libbey Eurotext, pp. 99-102 (proceedings).

Enns, C.W., and **Guenther, P.M.**, 1988, Women's food and nutrient intakes away from home, 1985. *Family Economics Review* 1988(1):9-12.

**Guenther, P.M.**, and Chandler, C.A., 1981, Nutrients in foods at home and away. *In: 1981 Agriculture Outlook,* Washington, DC: U.S. Government Printing Office, pp. 508- 516 (proceedings). Presented at the 1981 Outlook Conference, Washington, DC, November, 1980.

## Nonresponse Evaluations:

Project co-leader for evaluation of nonresponse in the 1987-88 Nationwide Food Consumption Survey, 1990-1991. Products of this research:

**Guenther, P.M.**, and Tippett, K.S. (eds.), 1993, *Evaluation of Nonresponse in the Nationwide Food Consumption Survey, 1987-88.* NFCS Report No. 87-M-2. Washington: U.S. Department of Agriculture.

Kott, P.S., and **Guenther, P.M.**, 1993, Demographic characteristics of the sample. *In*: Guenther, P.M., and Tippett, K.S. (eds.), *Evaluation of Nonresponse in the Nationwide Food Consumption Survey, 1987-88.* NFCS Report No. 87-M-2. Washington: U.S. Department of Agriculture, pp. 6-12.

**Guenther, P.M.**, Nationwide Food Consumption Survey nonresponse analyses. Presented at the Nutrition Monitoring: USDA/HNIS Resources Conference, Bethesda, Maryland, November, 1991.

Heimbach, J.T., and **Guenther, P.M.**, Design and nonresponse issues in the 1987-1988 Nationwide Food Consumption Survey. Presented at the Federation of American Societies for Experimental Biology annual meeting, Atlanta, April, 1991.

Member of Federal Committee on Statistical Methodology, Subcommittee on Nonresponse in Federal Surveys, 1991-1994. Products of this research:

Shettle, C., **Guenther, P.M.**, Kasprzyk, D., and Gonzales, M.E., 1994, Investigating nonresponse in Federal surveys. *In: American Statistical Association 1994 Proceedings of the Section on Survey Research Methods*, Vol. II, pp. 972-976.

Shettle, C., **Guenther, P.M.**, Kasprzyk, D., and Gonzales, M.E., 1995, Investigating nonresponse in Federal surveys. *In*: Jamerson, B., and Alvey, W. (eds.), *Turning Administrative Systems Into Information Systems, 1994.* Washington, DC: Internal Revenue Service, pp. 167-172.

## USDA Dietary Survey Publications (Coauthor):

*Nationwide Food Consumption Survey (NFCS), 1987-88 Series:*

Food and Nutrient Intakes by Individuals in the United States, 1 Day, 1987-88. NFCS Report No. 87-I-1, 1993.

*Continuing Survey of Food Intakes by Individuals (CSFII), 1986 Series:*

Women 19-50 Years and Their Children 1-5 Years, 4 Days, 1986. CSFII Report No. 86-3, 1989.

Low-Income Women 19-50 Years and Their Children 1-5 Years, 4 Days, 1986. CSFII Report No. 86-4, 1989.

Women 19-50 Years and Their Children 1-5 Years, 1 day, 1986. CSFII Report No. 86-1, 1987.

Low-Income Women 19-50 Years and Their Children 1-5 Years, 1 Day, 1986. CSFII Report No. 86-2, 1987.

*Continuing Survey of Food Intakes by Individuals, 1985 Series:*

Low-Income Women 19-50 Years and Their Children 1-5 Years, 4 Days, 1985. CSFII

Report No. 85-5, 1988.

Women 19-50 Years and Their Children 1-5 Years, 4 Days, 1985. CSFII Report No. 85-4, 1987.

Men 19-50, 1 Day, 1985. CSFII Report No. 85-3, 1986.

Low-Income Women 19-50 Years and Their Children 1-5 Years, 1 Day, 1985. CSFII

Report No. 85-2, 1986.

Women 19-50 Years and Their Children 1-5 Years, 1 Day, 1985. CSFII Report No. 85-1, 1985.

*Nationwide Food Consumption Survey, 1977-78 Series:*

Food and Nutrient Intakes: Individuals in Four Regions, Year 1977-78. NFCS Report No. I-3, 1985.

Food Intakes: Individuals in 48 States, Year 1977-78. NFCS 1977-78 Report No. I-2, 1984.

Food and Nutrient Intakes of Individuals in 1 Day in Low-Income Households, November 1979-March 1980. NFCS, 1977-78 Preliminary Report No. 13, 1982.

Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978. NFCS 1977-78 Preliminary Report No. 5, 1981.

Food and Nutrient Intakes of Individuals in 1 Day in the United States, Spring 1977. NFCS 1977-78 Preliminary Report No. 2, 1980.

## Popular Publication:

**Guenther, P.M.**, Manaster, F., Jeffries, D., Grunberg, L., Weinmann, H., and Sunderland, S., 1971, *The What Mama Never Told You Cookbook: Simple Cooking for Complex Minds.*

Cleveland: Case Western Reserve University.

**ADVISORY PANELS AND COMMITTEES**

Data and Safety Monitoring Board for the Dietary Biomarkers Development Consortium, funded by the NIH National Institute of Diabetes and Digestive and Kidney Diseases and the USDA National Institute of Food and Agriculture. 2022-2027. Member

Advisory Panel for the Kaiser Permanente Research NIH National Heart, Lung and Blood Institute planning grant for establishing standard portion sizes for food served away from home, 2020-present. Member.

Best Brains Exchange, hosted by Health Canada and Canadian Institutes of Health Research, on “Developing a tool to measure adherence to Canada’s new Food Guide,” March, 2020, Ottawa, Canada. Invited participant.

Healthy Eating Research Program, Robert Wood Johnson Foundation, 2019. Review

panel member.

National Cancer Institute Workshop on Extending Methods in Dietary Patterns Research, Rockville, MD, May, 2016. Invited participant.

Scientific Advisory Board, Onlife Health, Inc., a personal health coaching company, 2010-2017. Member.

National Research Initiative Competitive Grants Program, USDA Cooperative State Research, Education, and Extension Service, 1994-2013. Ad hoc reviewer.

Food Assistance and Nutrition Research Program, USDA Economic Research Service, 2003- 2013. Ad hoc reviewer.

Grants for Research Program, U.S. Environmental Protection Agency, Human Health Risk Assessment/Consumer Right-to-Know Peer Review Panel, Washington, DC, May, 1997. Reviewer.

Peer Review Workshop on Revisions to the Exposure Factors Handbook, sponsored by the

U.S. Environmental Protection Agency, Washington, DC, July, 1995. Invited participant.

Exposure Factors Handbook Workshop, sponsored by the U.S. Environmental Protection Agency Risk Assessment Forum, Washington, DC, July, 1993. Invited participant.

Consensus Workshop on Dietary Assessment: Nutrition Monitoring and Tracking the Year 2000 Objectives, Richmond, Virginia, February, 1993. Participant, reviewer, and steering committee member. Product of this work:

Wright, J.D., Ervin, B., and Briefel, R.R. (eds.), 1994, *Consensus Workshop on Dietary Assessment: Nutrition Monitoring and Tracking the Year 2000 Objectives*. Hyattsville, MD: National Center for Health Statistics.

USDA Working Group on the Development of the Ten-Year Plan for Nutrition Monitoring, 1991-1992. Member. Product of this work:

Department of Health and Human Services and Department of Agriculture, 1992, Ten-year comprehensive plan for the National Nutrition Monitoring and Related Research Program. *Federal Register* 58(111):32752-32706.

Ad Hoc Expert Panel on Water Intake, Life Sciences Research Office, Federation of American Societies for Experimental Biology, 1989. Member.

Joint Project Steering Committee for Life Sciences Research Office, Federation of American Societies for Experimental Biology Report on Nutrition Monitoring in the United States, 1987- 1989. Member. Product of this work:

Cronin, F.J., Krebs-Smith, S.M., Welsh, S.O., and **Guenther, P.M.**, 1989, Activities of the

U.S. Department of Agriculture related to the National Nutrition Monitoring System.

*Journal of the American Dietetic Association* 89(9):A-144 (abstract). Presented at the American Dietetic Association annual meeting, Kansas City, MO, October, 1989.

# COMMUNITY SERVICE

* + ***Clinical trial participant,*** A Study to Evaluate Efficacy, Safety, and Immunogenicity of mRNA-1273 Vaccine in Adults Aged 18 Years and Older to Prevent COVID-19, conducted by Moderna, 2020-2022
	+ ***Nominating Committee Member***, First Presbyterian Church, Salt Lake City, 2014
	+ ***Clerk of Session*** (secretary of the governing board), Fairlington Presbyterian Church, Alexandria, Virginia, 2004-2012
	+ ***Clerk of Session***, First Presbyterian Church, Salt Lake City, 1999-2003
	+ ***Event Services Host***, Salt Lake Organizing Committee for the 2002 Olympic Winter Games, 2001-2002
	+ ***Volunteer Information Center staff member***, Salt Lake Organizing Committee for the 2002 Olympic Winter Games, 2000-2002
	+ ***Steering Committee Member and Chair, International Baccalaureate Program Handbook Subcommittee***, West High School International Baccalaureate Parent Organization, 1998-2000
	+ ***Assistant Leader***, Cadette/Senior Girl Scout Troop 1311, 1996-2003
	+ ***Troop Committee Secretary,*** Boy Scout Troop 34, 1997-2000
	+ ***Merit Award recipient***, Olde Mill District, Boy Scouts of America, 1995
	+ ***District Committee Member***, Olde Mill District, Boy Scouts of America, 1993-1996
	+ ***Troop Committee Member,*** Boy Scout Troop 443, 1994-1996
	+ ***Treasurer***, Brownie/Junior Girl Scout Troops 1531/2510, 1990-1996
	+ ***Pack Committee Chair***, Cub Scout Pack 1349, 1992-1993
	+ ***Assistant Cubmaster***, Cub Scout Pack 1349, 1990-1992
	+ ***Den Co-leader***, Cub Scout Pack 1349, 1989-1993
	+ ***Board Member***, Silver Spring Presbyterian Church Day Care Center, 1986-1988