

NAME

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EDUCATION

1995	M.P.H.	Johns Hopkins University, Baltimore, MD Public Health
1994	Ph.D.	Purdue University Ph.D., West Lafayette, IN Nutrition
1988	M.S.	Clemson University, Clemson, SC Human Nutrition
1983	B.S.	Michigan State University, East Lansing, MI Foods and Nutrition

PROFESSIONAL EXPERIENCE

2020-Present	Chair and Professor, Department of Nutritional Sciences, College of Allied Health, Member, Harold Hamm Diabetes Center, The University of Oklahoma Health Sciences Center, Oklahoma City, OK
2014-2020	School Head and Associate Professor, School of Biological and Population Health Sciences, College of Public Health and Human Sciences, Oregon State University, Corvallis, OR.
2014-2012	Associate Professor with tenure, School of Biological and Population Health Sciences, College of Public Health and Human Sciences, Oregon State University, Corvallis, OR.
2012-2004	Associate Professor with tenure, Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI.
2004-1998	Assistant Professor, Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI.
1997-1994	Cancer Prevention Fellow, Preventive Oncology Branch, Division of Cancer Prevention, Laboratory of Nutritional and Molecular Regulation, National Cancer Institute.

SCHOLARSHIP

Grant Funding and Research Support

2020-Present	“Oklahoma Nutrition Information and Education (ONIE) Social Marketing Project”, U.S. Department of Agriculture SNAP-Ed Program Fiscal Year 2020-2023; Hudson College of Public Health and College of Allied Health (\$2.65 million FY 2022-2023); PI: Mann (10% effort as salary support).
2019-2022	“Physical activity in relation to environmental location and equipment needs among US adults aged 50 and older: insights from BRFSS 2011–2017” AARP (American Association of Retired Persons); \$100,000 (Co-PI: Schuna, Myers; role: Co-I)
2014-2020	Celia Strickland Austin and G. Kenneth Austin III Professorship Endowment, Partial salary support (15% salary support) and research stipend.
2008-2020	“Nutrient Bioavailability--Phytonutrients and Beyond”, USDA, National Institute for Food and Agriculture, Multistate Research Project, W4002: (10% salary support).
2013-2015	“Pilot Study of a Metabolic Therapy for the Management of Primary Brain Tumors”, American Institute for Cancer Research, Kenneth Schwartz, Norman Hord, L. Karl Olson, Mary Noel, Howard Chang, Michele Nikolai, \$170,000.00 (10% effort).
2013-2014	“Effect of whole grain components on inflammation and glucose intolerance in a mouse model”, Emily Ho, Andriy Morgan, Natalia Shulashenko, Carmen Wong, Moore Family Center for Whole Grain Foods, Nutrition and Preventive Health, Oregon State University, \$25,000.00 (10% effort).
2013-2014	“Effects of exposure to nitrate and nitrite on zebrafish fetal cardiovascular development and zebrafish performance”, Environmental Health Sciences Core Center Pilot Grant Program, Oregon State University, \$25,000.00 (20% effort).
2010-2011	“Comparison of the metabolic profiles for glucose and ketones of human malignant high grade brain cancers with normal brain tissues”, Blue Care Network, Co-PI with Ken Schwartz, MD, \$15,000.00 (10% effort).
2009-2011	“Allergic airways and dietary tocopherols”, MSU Intramural Grant Program, James Wagner (PI) Pathobiology & Diagnostic Investigation; Norman Hord (Co-PI), \$60,000.00 (10% effort).

- 2007-2009 "Colon Epithelial Cells Exposed to Probiotic Bacteria Modify Macrophage Activation and Chemotaxis in Response to a Bacterial Pathogen" Cancer White Paper Grant Program, Office of the Vice President for Research and Graduate Studies, \$150,000.00 (20% effort).
- 2003-2005 "Flavonoid Modulation of Epithelial Migration and Signaling" (1R03CA101117-01), National Institutes of Health, \$149,250 (20% effort).
- 2001-2003 "Nutrition Therapy in Practice: Strengthening Medical Nutrition Therapy Skills," United States Department of Agriculture Higher Education Challenge Grant Program, Co-PIs: D. Golyzyski, L. Weatherspoon, \$99,250 (20% effort).
- 2000-2001 "Dietary Curcuminoids and Colon Epithelial Cell Migration," The Office of Research, Outreach and International Programs, College of Human Ecology, Michigan State University, \$15,000.00 (20% effort).
- 1999-2003 "Breakfast Meal Soluble Fiber Content: Implications for Metabolic Control," Kellogg Company, \$225,000.00; Co-PIs: L. Weatherspoon, D. Henry (30% effort)
- 1999-2000 "Whole Oat Utilization in Humans." General Mills, Inc., James Ford Bell Technical Center, Minneapolis, MN.; N. Hord, J. Arnold, L. Bourquin, \$15,500.00 (15% effort).

PUBLICATIONS

Google Scholar citations as of February, 2022: 3,364; h-index: 24; i-10-index: 29) ORCID iD: <https://orcid.org/0000-0002-7505-4180> / Scopus Author ID: 6602249065; ResearcherID: E-5213-2019)

Published

1. Schwartz, KA, Noel, M, Nikolai, M, Olson, L., Hord, NG, Zakem, M, Clark, J, Elnabity, M, Figueroa, B, Chang, H. (2022) Long term survivals in aggressive primary brain malignancies treated with an adjuvant ketogenic diet. *Frontiers in Nutrition Clinical Nutrition*.
2. Keller RM, Beaver LM, Reardon PN, Prater MC, Truong L, Robinson MM, Tanguay RL, Stevens JF, Hord NG. Nitrate-induced improvements in exercise performance are coincident with exuberant changes in metabolic genes and the metabolome in zebrafish (*Danio rerio*) skeletal muscle. *J Appl Physiol* (1985). 2021 Jul 1;131(1):142-157. doi: 10.1152/jappphysiol.00185.2021. Epub 2021 May 27. PMID: 34043471; PMCID: PMC8325611.
3. García-Jaramillo M, Beaver LM, Truong L, Axton ER, Keller RM, Prater MC, Magnusson KR, Tanguay RL, Stevens JF, Hord NG. Nitrate and nitrite exposure leads

to mild anxiogenic-like behavior and alters brain metabolomic profile in zebrafish. PLoS One. 2020 Dec 31;15(12):e0240070. doi: 10.1371/journal.pone.0240070. PMID: 33382700; PMCID: PMC7774831.

4. Moua ED, Hu C, Day N, Hord NG, Takata Y. (2020) Coffee consumption and C-Reactive Protein levels: a systematic review and meta-analysis. *Nutrients* 12 (5), 1349. doi:10.3390/nu12051349.
5. Axton, ER, Beaver, LM Lindsey St. Mary, L, Truong, L, Logan, CR, Spagnoli, S, Mary C. Prater, MC, Keller, RM, Garcia-Jaramillo, M, Ehrlicher, SE, Stierwalt, HD, Newsom, SA, Robinson, MM, Tanguay, RL, Stevens, JF and Hord, NG (2019) Treatment with nitrate but not nitrite lowers the oxygen cost of exercise and decreases glycolytic intermediates while increasing fatty acid metabolites in exercised zebrafish, *J Nutr*, 149 (12): 2120–2132.
6. Keller RM, Beaver, L, Prater, MC, Hord, NG. (2017) Dietary nitrate and nitrite concentrations in food patterns and dietary supplements. *Nutrition Today*, DOI: 10.1097/NT.0000000000000253.
7. Conley MN, Roberts C, Sharpton TJ, Iwaniec UT, Hord NG. (2017) Increasing dietary nitrate has no effect on cancellous bone loss or fecal microbiome in ovariectomized rats. *Mol Nutr Food Res*. 2017 May;61(5). doi: 10.1002/ mnfr.201600372.
8. Hord, NG and Conley M. (2017) Regulation of dietary nitrate and nitrite: balancing essential physiological roles with potential health risks, In: *Nitrates and Nitrites in Human Health and Disease*, Editors: Joseph Loscalzo, M.D., Ph.D. (Harvard University) and Nathan S. Bryan, PhD (Texas), New York, NY, Springer Science and Business Media, Second Edition, ISBN 978-3-319-46189-2.
9. Ahluwalia, A, Gladwin, M, Coleman, GD, Hord, NG, Howard, G, Kim-Shapiro, D, Lajous, M, Larsen, F, Lefer, DJ, McClure, LA, Nolan, BT, Pluta, R, Schechter, A, Wang, C-Y, Ward, MH, and Harman, JL (2016) Dietary nitrate and the epidemiology of cardiovascular disease: Report from a National Heart, Lung, and Blood Institute Workshop, *Journal of the American Heart Association*, Jul; 5 (7): e003402. Published online 2016 Jul 6. doi: 10.1161/JAHA.116.003402.
10. Conley MN, Wong CP, Duyck KM, Hord NG, Ho E, Sharpton TJ. (2016) Aging and serum MCP-1 are associated with gut microbiome composition in a murine model. *PeerJ*. Mar 31;4:e1854. doi: 10.7717/peerj.1854.
11. Schwartz, K, Chang HT, Nikolai, M, Pernicone, J, Rhee, S, Olson, K, Kurniali PC, Hord, NG; Noel, M. (2015) Treatment of glioma patients with ketogenic diets: report of two cases treated with an IRB-approved energy-restricted ketogenic diet protocol and review of the literature. *Cancer & Metabolism* 3:3, DOI: 10.1186/s40170-015-0129-1.
12. Fenton, JI, Hord, NG, Ghosh, S and E Gurzell (2013) Long chain omega-3 fatty acid overexposure and immunomodulation. *Prostaglandins Leukot Essent Fatty Acids*. Sep 30. pii: S0952-3278(13)00192-0. doi: 10.1016/ j.plefa. 2013. 09.011.

13. Houghton-Rahrig, L, Schutte, D, von Eye, A, Fenton, JI, Given, BA, Hord, NG (2013) Exploration of a symptoms experience in persons with NAFLD. *Nursing Outlook*. Jul-Aug;61(4):242-251.e2. doi: 10.1016/j.outlook.2013.05.003.
14. Jiang H, Tang Y, Garg HK, Parthasarathy DK, Torregrossa AC, Hord NG, Bryan NS. (2012) Concentration- and stage-specific effects of nitrite on colon cancer cell lines. *Nitric Oxide*. May 15;26(4):267-73.
15. Hord NG. (2011) Dietary nitrates, nitrites, and cardiovascular disease. *Current Atherosclerosis Reports*. Dec;13(6):484-92.
16. Hord, NG, Ghannam, J, Garg, JK, Berens, PB and Bryan NS. (2011) Nitrate and nitrite content of human, formula, bovine, and soy milks: implications for dietary nitrite and nitrate recommendations. *Breastfeed Med*. Dec;6(6):393-9. doi: 10.1089/bfm.2010.0070. Epub 2010 Oct 19.
17. Hord, NG, Tang, YP, Bryan, NS (2009) Food sources of nitrates and nitrites: the physiological context for potential health benefits, *American Journal of Clinical Nutrition* 90: 1-10. Invited commentary and journal press release coincident with publication.
18. Hord, NG. (2008) Eukaryotic-microbiota cross-talk: potential mechanisms for health benefits of prebiotics and probiotic bacteria. *Annual Review of Nutrition* 28:215-31.
19. Fenton JI, Nuñez NP, Yakar S, Susan N. Perkins SN, Hord NG and Hursting SD. (2008) Dietary modulation of energy balance alters the serum profile of inflammation in C57BL/6N mice. *Diabetes, Obesity and Metabolism* 11(4): 343-354.
20. Fenton, JI, Birmingham, J, Hursting, SD and Hord, NG (2008) Adiponectin blocks leptin induced NFκ-B DNA binding, interleukin-6 trans- signaling and cell proliferation in *Apc^{Min/+}* colon epithelial cells. *International Journal of Cancer* 122(11):2437-45.
21. Fenton, JI, Lavigne JA, Perkins, SN, Liu H, Chandramouli, GVR, Shih, JH, Hord, NG and Hursting, SD (2008) Microarray analysis reveals that leptin induces autocrine/paracrine cascades to promote survival and proliferation of colon epithelial cells in an *Apc* genotype dependent fashion. *Mol Carcinog*. 2008 Jan;47(1):9-21.
22. Hord NG and Fenton JI. (2007) Context is everything: mining the normal and preneoplastic microenvironment for insights into the diet and cancer risk conundrum. *Molecular Food and Nutrition Research*, 51(1):100-6.
23. Fenton JI, Hursting SD, Perkins SN, Hord NG. (2006) Leptin induces an *Apc* genotype-associated colon epithelial cell chemokine production pattern associated with macrophage chemotaxis and activation. *Carcinogenesis*, 28(2):455-64.
24. Fenton, JI, Hursting SD, Perkins S, Hord NG (2006) Interleukin-6 production induced by leptin treatment promotes cell proliferation in an *Apc(Min/+)* cell line, *Carcinogenesis*, 27(7)1507-15.

25. Fenton, JI and Hord, NG. (2006) Stage matters: employing in vitro models useful for diet and cancer chemoprevention prevention research. *Carcinogenesis* 27: 893-902.
26. Clark CA, Gardiner J, McBurney MI, Anderson S, Weatherspoon LJ, Henry DN, Hord NG. (2006) Effects of breakfast meal composition on second meal metabolic responses in adults with Type 2 diabetes mellitus. *Eur J Clin Nutr.Sep*;60(9):1122-9.
27. Williams, MT and Hord, NG (2005) The role of dietary factors in cancer prevention: beyond fruits and vegetables. *Nutrition in Clinical Practice*. 20 (4): 451-459.
28. Fenton, JI, Hord, NG, Lavigne, J, Hursting, SP (2005) Leptin, IGF-1 and IGF-2 are mitogens in murine models of preneoplastic but not normal colon epithelial cells. *Cancer Epidemiology Biomarkers and Prevention*. 14 (7):1646-52.
29. Fenton, JI and Hord, NG (2004) Flavonoids alter cell migration in non-tumorigenic colon epithelial cells differing in Apc genotype. *Nutr. Cancer* 48: 2
30. Fenton, JI, Wolff MS, Orth, MI and Hord, NG (2002) Membrane-type matrix metalloproteinases mediate curcumin-induced cell migration in non-tumorigenic colon epithelial cells differing in Apc genotype. *Carcinogenesis* 23 (6): 1065-1070.
31. Petruilis, JR, Hord, NG, Perdew, GH (2000) Subcellular localization of the aryl hydrocarbon (Ah) receptor is modulated by the immunophilin homolog hepatitis B virus X-associated protein. *J. Biol. Chem*. 275 (48): 37448-37453.
32. Mei, JM, Hord, NG, Winterstein, D, Donald, S and Phang, JM (2000) Differential formation of β -catenin/LEF-1 DNA binding complex induced by nitric oxide in mouse colonic epithelial cells differing in Apc genotype. *Cancer Research* 60: 3379-3383. Co-First Author
33. Mei, JM, Hord, NG, Winterstein, D, Donald, S and Phang, JM (2000) Expression of prostaglandin endoperoxide H synthase-2 and formation of β -catenin/LEF-1 DNA binding complexes induced by nitric oxide in conditionally immortalized murine colonic epithelial cells. *FASEB J*. 14: 1188-1201. Co-First Author
34. Wilson, T and Hord, NG (2000) Design and construction of an internet-based course in food science. *Topics in Clinical Nutrition*, 15 (3): 35-43.
35. Hord, NG (1999) Dietary factors, genetic susceptibilities, and colon cancer risk: a brief review. *Topics in Clinical Nutrition*, 14: 31-38.
36. Mei, JM, Hord, NG, Winterstein, D, Donald, S and Phang, JM (1999) Differential expression of nitric oxide synthase II and prostaglandin endoperoxide H synthase-2 in conditionally immortal mouse colon epithelial cells contrasting in Apc genotype. *Carcinogenesis* 20: 737-740.
37. Singh, SS, Hord, NG, and Perdew, GH (1996) Characterization of the activated form of the aryl hydrocarbon receptor in the nucleus of HeLa cells in the absence of exogenous ligand. *Arch. Biochem. Biophys*. 329: 47-55.

38. Hord, NG and Perdew, GH (1994) Physicochemical and immunocytochemical analysis of the aryl hydrocarbon receptor nuclear translocator (Arnt): characterization of two monoclonal antibodies to Arnt. *Mol. Pharmacol.* 46, 618-626.
39. Perdew, GH, Hord, NG, Hollenback, CE, and Welsh, MJ (1993) Localization and characterization of the 86- and 84-kDa heat shock proteins in hepa 1c1c7 cells. *Exp. Cell Res.* 209, 350-356.
40. Kunkel, ME, Powers, DL, Hord, NG (1990) Comparison of chemical, histomorphometric, and absorptiometric analyses of bones of growing rats subjected to dietary calcium stress. *J. Am. Coll. Nutr.* 9: 633-640.

Publications under review

1. Schuna Jr., JM, Pillai, S, Norris, J, Hord, NG, Tan, E, Myers, AE (2022) Physical activity in relation to environmental location and equipment needs among US adults aged 50 and older: insights from BRFSS 2011–2017. Submitted to *American Journal of Public Health*.

Manuscript under revision

1. Keller RM, Beaver LM, Reardon PN, Prater MC, Truong L, Robinson MM, Tanguay RL, Stevens JF, Hord NG. (2022) Nitrate exposure reprograms hepatic amino acid and nutrient sensing pathways: a metabolomic and transcriptomic investigation in zebrafish (*Danio rerio*).

Book Reviews

1. Hord, NG (2001), *Clinical Nutrition of the Essential Trace Elements and Minerals: The Guide for Health Professionals*. Bogen, JD Klevay, LM, eds., 2000. Humana Press, 999 Riverview Drive, Suite 208, Totowa, NJ 07512, 973-256-1699, hardcover, 397 pp, ISBN: 0-896035-98-0. *Journal of Nutrition Education*, June/July, pg. 177.
2. Hord, NG and Rojas, CL (2004) *Raising Vegetarian Children: A Guide to Good Health & Family Harmony*. Stepaniak Joanne & Melina Vesanto, 2003. From Contemporary Books-Division of McGraw-Hill Companies, Two Penn Plaza, New York, NY 10121-2298, (312) 233-7596, softcover, 381 pp, ISBN 0-658-02155-9. *Journal of Nutrition Education and Behavior*, March/April.

Monographs

1. Hord, NG. (2008) *Dietary Guidance to Prevent Cancer: A Commentary on Food, Nutrition, Physical Activity, and the Prevention of Cancer: a Global Perspective*. SCAN Pulse (Newsletter of the Sports, Cardiovascular and Nutrition Dietetic Practice Group of the American Dietetic Association), Summer Issue.

2. Hord, NG and Weatherspoon, LW (2003) The Health Benefits of Processed Psyllium Consumption. MSU Department of Food Science and Human Nutrition. Kellogg Patent Licensing Support Activities, Collaborator: Dr. Norman Pollock, MSU Intellectual Property Consultant.
3. Hord, NG. (2002) The Best Evidence We've Got (and It's Still Fuzzy!): Diet, Lifestyle, Genetics and Risk of Colorectal Cancer; Newsletter of the Oncology Nutrition Dietetic Practice Group of the American Dietetic Association.
4. Hord, NG. (2001) Interpretation of Research for Registered Dietitians. The Digest (Newsletter of the Research Dietetic Practice Group of the American Dietetic Association), Vol. 36, No. 2: 1-2.

Abstracts

1. Keller RM, Beaver L, and Hord NG Mechanisms responsible for the effect of nitrate and nitrite treatment on performance and energy metabolism. The American College of Sports Medicine Annual Meeting, May 26-30, 2020.
2. Keller, RM, Axton, ER, Beaver, LM Lindsey St. Mary, L, Lisa Truong, L, Logan, CR, Spagnoli, S, Mary C. Prater, MC, Garcia-Jaramillo, M, Ehrlicher, SE, Stierwalt, HD, Newsom, SA, Robinson, MM, Tanguay, RL, Stevens, JF and Hord, NG. Treatment with nitrate but not nitrite lowers the oxygen cost of exercise and decreases glycolytic intermediates while increasing fatty acid metabolites in exercised zebrafish, Cell Symposium on Exercise Metabolism, Stiges, Spain, May, 2019.
3. Hord, NG, Axton, ER, Beaver, LM Lindsey St. Mary, L, Lisa Truong, L, Logan, CR, Spagnoli, S, Prater, MC, Keller, RM, Garcia-Jaramillo, M, Ehrlicher, SE, Stierwalt, HD, Newsom, SA, Robinson, MM, Tanguay, RL, and Stevens, JF. Dietary nitrate and nitrite differentially alter oxygen consumption and energy homeostasis in zebrafish during exercise. Nitric Oxide Society, University of Oxford, September, 2018.
4. Keller RM, Beaver, L, Prater, MC, Hord, NG. Modeling total dietary nitrate intake from foods, beverages and supplements. Nitric Oxide Society, University of Oxford, September, 2018.
5. Hord, NG, Axton, ER, Beaver, LM Lindsey St. Mary, L, Lisa Truong, L, Logan, CR, Spagnoli, S, Mary C. Prater, MC, Keller, RM, Garcia-Jaramillo, M, Ehrlicher, SE, Stierwalt, HD, Newsom, SA, Robinson, MM, Tanguay, RL, and Stevens, JF. Nitrate and nitrite exposure affect cognitive behavior and oxygen consumption during exercise in zebrafish, Experimental Biology, San Diego, CA, 2017
6. Houghton-Rahrig L, Schutte D, Given B, Imig-Fenton J, VonEye A, Hord NG. (2012) Health-related quality of life is associated with the PNPLA3 gene, (rs738409)-G allele in obesity-related nonalcoholic fatty liver disease. Council for the Advancement of Nursing Science, Annual Meeting 2012.

7. Houghton-Rahrig L, Schutte D, Given B, Imig-Fenton J, VonEye A, Hord NG. (2012) Symptoms experience in persons with obesity-related nonalcoholic fatty liver disease. Council for the Advancement of Nursing Science Annual Meeting 2012.
8. Hoang, V., Wagner, J. and Hord N.G. Differential modulation of allergic airway responses in mice by in utero and early life dietary intake of the vitamin E: gamma-tocopherol versus alpha-tocopherol, University Undergraduate Research and Arts Forum, Michigan State University, April 15, 2010.
9. Konal, J., Wagner, J. and Hord, N.G. Vitamin E Deficiency in BALB/c Mice During Pregnancy and Post-Natal Periods Leads to Enhanced Allergic Airway Responses in Offspring, University Undergraduate Research and Arts Forum, Michigan State University, April 15, 2010.
10. Jiang, H., Tang, Y., Hord, N.G., Bryan, N.S. Concentration- and Stage-Specific Effects of Nitrite on Colon Carcinoma Cells. American Institute for Cancer Research Annual Meeting, Washington, D.C., August 2011.
11. Meredith, C., Olson, L.K. and Hord, N.G. Succinyl-CoA:3-ketoacid-coenzyme A transferase 1 (OXCT1) and Glial Fibrillary Acidic Protein (GFAP) Content in Human Astrocytoma and Gliosarcoma: Implications for Ketone Utilization in Cancer. American Cancer Society Future Scientist Program, Michigan State University, July, 2010.
12. Fenton JI, Hursting SD, Perkins SN, Hord NG. Leptin induces an Apc genotype-associated colon epithelial cell chemokine production pattern associated with macrophage chemotaxis and activation. Keystone Symposium on Mechanisms Linking Inflammation and Cancer. Santa Fe, NM, 2007.
13. Fenton, JI, Hursting SD, Perkins SN, Hord NG, Interleukin-6 production induced by leptin treatment promotes STAT3 dependent cell proliferation in an ApcMin/+ colon epithelial cell line. American Association for Cancer Research Symposium on the Tumor Microenvironment. Fort Myers, FL, 2005.
14. Fenton, JI, Block, ER, Ustunol, Z, Pestka, JJ, Hord, NG Modulation of Escherichia coli O157:H7-mediated production of proinflammatory mediators by Lactobacilli: role of p38 MAPK and JNK signaling. Experimental Biology 2005, San Diego, CA, 2005.
15. Fenton, JI, Hord, NG and Hursting, SD Leptin is a mitogen for preneoplastic colon epithelial cells that is enhanced by cotreatment with IGF. Frontiers of Cancer Prevention Research, American Association of Cancer Research Annual Meeting, Seattle, WA, 2004.
16. Fenton, JI, Amin, S, Ustunol, Z, Shin, H and Hord, NG Lactobacillus casei and Lactobacillus reuteri attenuate Salmonella dublin-induced production of inflammatory mediators in colon epithelial cells. Experimental Biology 2003 Annual Meeting, San Diego, CA, 2003.
17. Clark, C, Weatherspoon, LW, McBurney, M, Henry, D and Hord NG. Metabolic Implications of Soluble Fiber-Containing Breakfasts: Influence on Second Meal

Tolerance in Individuals with Type 2 Diabetes Mellitus. American Diabetes Association, Annual Meeting, San Francisco, CA, 2002.

18. Clark, C, Weatherspoon, LW, McBurney, M, Henry, D and Hord NG. A Cross-sectional Analysis of Dietary Intake Patterns in Individuals with Type 2 Diabetes Mellitus. American Dietetic Association Annual Meeting, Philadelphia, PA, 2002.
19. Fenton, JI, Fehsenfeld, M and Hord, NG. Membrane-type matrix metalloproteinases mediate hepatocyte growth factor -induced cell migration in non-tumorigenic colon epithelial cells differing in Apc genotype. Experimental Biology, New Orleans, LA, 2002.
20. Fenton, JI and Hord, NG. Curcumin alters growth factor-induced colonic epithelial cell motility in an Apc genotype-dependent fashion: potential effects on matrix metalloproteinase (MMP) activity. Experimental Biology, Orlando, FL, 2001.
21. Arnold, JA, Miller, R, Hord, NG. Meeting a community's nutritional needs: developing a public relations project to promote the benefits of a community gleaning program. American Dietetic Association's Food and Nutrition Conference and Exhibition, Denver, CO, 2000.
22. Mei, JM, Hord, NG, Winterstein, D.F., Donald, S.P. and Phang, J.M. Expression of prostaglandin endoperoxide H synthase-2 and formation of β -catenin/LEF-1 DNA binding complexes induced by nitric oxide in conditionally immortalized murine colonic epithelial cells. American Association of Cancer Research Annual Meeting, San Francisco, CA, 2000.
23. Mei, JM, Hord, NG, Winterstein, D.F. and Phang, J.M. Differential effects of nitric oxide and NOSII in the induction of cyclooxygenase-2 in cells contrasting in Apc genotype. American Association of Cancer Research, 39:617 (4196), 2000.
24. Hord, N.G, Mei, J.M., Winterstein D.F., Phang, J.M. Nitric oxide is essential for the activation of p38 MAP kinase and induction of cyclooxygenase-2 in murine colonic epithelial cells contrasting in Apc genotype. FASEB J, 1998.
25. Mei, J.M., Hord, N.G., and Phang, J. M. (1997) An essential role for nitric oxide in the induction of cyclooxygenase-2 in two murine colonic epithelial cell lines. NCI Combined Intramural Principal Investigator Retreat, 97:196, 1997.
26. Mei, J.M., Hord, N.G. and Phang, J.M. Differential expression of nitric oxide synthase II and prostaglandin endoperoxide H synthase-2 in conditionally immortal mouse colon epithelial cells contrasting in Apc genotype. American Association Cancer Research 38: 577 (3872), 1997.
27. Hord, N.G. and Weed, D.L. Vegetable and fruit consumption and the risk of cancer: an examination of inferential methods in the review literature. American Society of Preventive Oncology, 21st Annual Meeting, Abstract 68, 1997.
28. Hord, N.G. and Phang, J.M. Differential effects of lysophosphatidic acid on adherens junction-associated proteins in two murine intestinal epithelial cell lines contrasting in Apc genotype. Molecular Biology of the Cell 7: 459a, Abstract 2669, 1996.

29. Singh, S.S., Hord, N.G., Perdew, G.H. Characterization of the activated form of the aryl hydrocarbon receptor from nuclear extracts of HeLa cells cultured without exogenous ligand. *The Toxicologist* 15: 91, Abstract 486, 1995.
30. Hord, N.G. and Perdew, G.H. Characterization of the aryl hydrocarbon nuclear translocator: immunofluorescence, sucrose density gradient and gel permeation chromatographic analysis in Hepa 1c1c7 cells. *Proceedings of the American Association of Cancer Research*, 35: 600, Abstract 3575, 1994.

PRESENTATIONS

Invited Presentations

Local

1. Nitrate promotes enhanced exercise performance in zebrafish (*Danio rerio*): metabolomic and signaling determinants in whole fish and skeletal muscle. OU Health Harold Hamm Diabetes Center Research Symposium, November, 2021.
2. Dietary Supplements: Snake Oil or Superfoods? OSU Foundation Event, May 5, 2019, Willamette Hall, Mirabella Portland.
3. Diet and Health: Vibrant Life, OSU Foundation Event, April 7, 2019; Living Well Series, Multnomah Athletic Club, Portland, OR.
4. Physiologic, dietary and pharmacologic approaches to ketosis for potential therapeutic benefits, OSU Nutrition program seminar, February, 2019.
5. Nitrate and nitrite exposure induces differential effects on cognitive behavior and oxygen consumption during exercise in zebrafish, OSU Nutrition program seminar, June, 2018.
6. Vegetable Intake and Bone Health: What is the Evidence? Center for Healthy Aging Research, Oregon State University 38th Annual OSU Gerontology Conference, April, 2014.
7. Health Implications and Exposure Assessment of Dietary Nitrate and Nitrite, Environmental Health Sciences Center, Oregon State University, Corvallis, OR; October, 2013.
8. Dietary Factors and Blood Pressure Regulation: Causal Inference & Public Health Recommendations, School of Biological and Population Health Sciences, Corvallis, OR; June, 2013.
9. Estimating exposure to and potential cardiovascular benefits of dietary nitrate and nitrite College of Public Health and Human Sciences, Corvallis, OR, December, 2013.

Regional

1. Dietary nitrate and nitrite concentrations in food patterns and dietary supplements, Functional Food Center 23rd International Conference and Expo on Functional Foods and 11th International Symposium, San Diego Convention Center, San Diego, CA, April, 24, 2018.
2. *Lactobacillus casei* and *Lactobacillus reuteri* attenuate Salmonella dublin-induced production of inflammatory mediators in colon epithelial cells. Experimental Biology 2003 Annual Meeting, San Diego, CA. Featured Topic Session Title: Diet in Colon Cancer; April 14, 2003.
3. Diet and Cancer Research: Interpreting Results from Studies in Cells, Rodents, and People. American Dietetic Association's Food and Nutrition Conference and Exhibition, Denver, CO; October 18, 2000 (Sponsored by Kellogg Company).

National

1. Food sources of nitrate and the nitrate-nitrite-nitric oxide pathway: potential health risks and benefits. National Institutes of Health, Office of Dietary Supplements and United States Department of Agriculture Monthly Federal Agency Meeting, January, 2022.
2. Is it Safe? Historical and Current Perspectives on the Risk for Disease Associated with Dietary Nitrite and Nitrate, American Physiological Society Symposium "Dietary Nitrate: From Cancer-Causing Villain to Health-Promoting Hero: Taking a U-turn on Dietary Nitrite and Nitrate? Experimental Biology 2017, Chicago, IL.
3. Estimating exposure to food sources of inorganic nitrate and nitrite, National Institutes of Health. Workshop on Dietary Nitrates and the Epidemiology of Hypertension and Cardiovascular Disease, National Institutes of Health, Bethesda, MD, September 17, 2014.
4. Physiological Determinants of Health Implications of Dietary Nitrate and Nitrite Intakes, Hershey Center for Health and Nutrition, Hershey, PA, December 2010.
5. Physiological Determinants of Health Implications of Dietary Nitrate and Nitrite Intakes, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, November, 2010.
6. Introduction to Carcinogenesis, Faculty, Molecular Prevention Course, Cancer Prevention and Control Academic Curriculum, Division of Cancer Prevention, National Cancer Institute, Bethesda, MD, annually July 2006-2010.
7. Diet and Cancer Prevention, Pathways to Health Symposium, San Diego State University, San Diego, CA, March, 2010.
8. Teaching Evidence-Based Dietetics: Complementary and Alternative Medicine as a fruitful application, American Dietetic Association Dietetic Educators Practice Group, Indianapolis, IN, April, 2009.

9. Modeling the Role of Leptin and Adiponectin on Early Events In Colon Carcinogenesis, Symposium on Cancer Research, Cellular Energy, Metabolism and Cancer, University of Texas M. D. Anderson Cancer Center, April, 2009.
10. Modeling the Role of Leptin and Adiponectin on Early Events In Colon Carcinogenesis, Boyd O'Dell Lecture, Nutrition and Exercise Research Week, Department of Nutritional Sciences, University of Missouri, Columbia, MO. March, 2009.
11. Dietary Guidance to Prevent Cancer, 2009 Sigma Xi Lecture Eastern Michigan University, March, 2009.
12. Diet, Nutrition, Physical Activity and Cancer Risk: A Summary of the Second International Report, Dietitians of West Michigan Annual Meeting, Zeeland Community Hospital, Zeeland, MI, February, 2009.
13. The American Dietetic Association's Nutrition Care Process, Dietitians of West Michigan, January 17, 2007.
14. What Can Cells In Vitro Teach Us About Cancer Prevention? Grand Rounds Seminar, University of Michigan Comprehensive Cancer Center, Monday, November 13, 2006.
15. Diet-Dependent Biology in Cancer, Faculty for the Summer Curriculum in Cancer Prevention, Division of Cancer Prevention, National Cancer Institute, Bethesda, MD; annually July 1997- 2005.
16. Immunonutrition: Enhancing Tumoricidal Cell Activity, Invited Speaker for National Cancer Institute Workshop, Bethesda, MD; March 23, 2005.
17. Dietary Curcumin and Flavonoids Stimulate Colon Epithelial Cell Migration via Stimulating Membrane-type Matrix Metalloproteinase Activity, Invited Speaker, Division of Cancer Prevention, National Cancer Institute, October 31, 2003.
18. Investigating the Preneoplastic Phenotype in Colon Epithelial Cells: Modulation by Dietary Compounds, Michigan State University, Department of Food Science and Human Nutrition and National Center for Food Safety and Toxicology, March and April, 2003.
19. Panel Discussant, Institute for Cancer Prevention, National Cancer Prevention Roundtable, Waldorf-Astoria Hotel, New York, NY, January 6, 2003. Representative of the Commission on Cancer, American College of Surgeons.
20. Primary Prevention of Colon Cancer, Cancer Research and Prevention Foundation of America Annual Meeting "Dialogue for Action: Bringing Colorectal Cancer Screening Home", Bethesda, MD, March, 2003.
21. The Nuts and Bolts of Interpreting Diet and Cancer Research, American Dietetic Association's Food and Nutrition Conference and Exhibition, St. Louis, MO; October 22, 2001; Symposium Presenter (Sponsored by Cancer Research Foundation of America).

22. Nutrition and Genomics Workshop, Invited Participant, Sponsored by the National Cancer Institute, U.S. Department of Agriculture, and American Society for Nutritional Sciences, FASEB Conference Center, Bethesda, MD, June 18, 2001.
23. Diet in the Treatment of Coronary Heart Disease and Hypertension, Great Lakes Cardiovascular Health Conference "The Future is Now: Cardiovascular Health in the 21st Century", Sponsors: Michigan Department of Community Health, Centers for Disease Control and Prevention; Cobo Center; Detroit, MI; May, 2001.
24. Leveraging Genetic Information for Cancer Prevention by Dietary Compounds, American Society for Nutritional Sciences Symposium "Nutrition, Genomics and the Real World", Experimental Biology 2001, Orlando, FL, April, 2001.
25. Role of Diet in Chronic Disease Risk, MSU Extension Fall Conference, October 2000.
26. Introduction to Evidence-Based Medicine, Michigan Dietetic Association Annual Meeting, Grand Rapids, MI, May, 2000.
27. The Role of Nutrition in the Management of Chronic Disease, Healthy Aging, Healthy People, Healthy Food: A Training for Senior Nutrition Providers, Michigan Office of Services to the Aging, April, 2000.
28. National Dietary Guidance: Past, Present and Future, Michigan State University Extension Annual Nutrition Conference, March, 2000.
29. The Obesity Epidemic: The Biology of Affluence. Andrews University Department of Biology Seminar Series, Berrien Springs, MI, January, 1999.
30. Successful Aging: Risk Perception and the Role of Lifestyle in Chronic Disease, Healthy U "Health Happenings" Health Promotion Program, October 1998.
31. Diet and Chronic Disease Prevention: Food, Supplements, or Both?, Michigan State University Extension Annual Nutrition Conference, Kellogg Center, Michigan State University, April, 1998.
32. Recent Developments in Diet and Breast Cancer Risk, Nutritionists and Dietitians in Community Health Services Annual Meeting, Michigan Department of Community Health, Lansing, MI, April 1998.
33. Clinical Trials of Dietary Supplements for Chronic Disease Prevention: Lessons We're Learning, Maryland Dietetic Association Annual Meeting, Johns Hopkins Bayview Hospital, July 1997.
34. Alternative Medicine Today, Health Expo '97, Martinsburg Regional Health Systems, Martinsburg, WVA, July 1997.
35. Lysophosphatidic Acid in the Chemoprevention of Colon Cancer in Apc^{Min} Mice. National Cancer Institute Director's (Dr. Richard Klausner) Review of the Cancer

Prevention Fellowship Program, December, 1995.

International

1. Obesity and Cancer Risk, Korean Nutrition Society Annual Meeting, Seoul, South Korea, November, 2010.
2. Resolving the Diet and Cancer Risk Conundrum, Boyd Orr Lecturer, Nutrition Society (UK), University of Ulster, Coleraine, Northern Ireland, July 18, 2007.

TEACHING

Undergraduate Instruction

Oregon State University

Medical Nutrition Therapy 2 (NUTR 431; 4 credits) (Winter quarter, 2013-present)
Application of nutrition principles to diseases/disorders that may alter nutritional requirements or respond to dietary modification.

Medical Nutrition Therapy 3 (NUTR 432; 3 credits) (Spring quarter, 2013-2015)
Application of nutrition principles to diseases/disorders that may alter nutritional requirements or respond to dietary modification.

Michigan State University

Medical Nutrition Therapy 1 and 2 (Fall and Spring semesters, 2008-2012)
HNF 471 and 472 – Diet therapy in the treatment of specific pathophysiologic states. Assessment of nutritional and medical status using laboratory tests. Application of nutrition care process to treat nutrition-related disease states and conditions. (4 credits). Average enrollment: 75 students.

HNF 320 – Basic Skills in Dietetic Practice (3 credits, Spring/Summer 2000-2008).
Course Description: Nutrient composition of foods to meet nutritional needs for meal planning. Sources of reliable food and nutrition information. Evaluation and communication of scientific and consumer information. Concepts in nutritional epidemiology. Concepts in evidence-based dietetics and the nutrition care process. Average enrollment: 108 students.

HNF 465 – Nutritional Pathophysiology (4 credits, Fall semesters 2000-2008).
Course Description: Effects of specific pathophysiologic states on the function of target organs. Assessment of nutritional and medical status using laboratory tests. Putative mechanisms of action, efficacy, and safety of relevant complementary and alternative (CAM) therapies. Evidence-based analysis of CAM therapies. Fall 2008 enrollment: 167 students.

Past Teaching in Department of Food Science and Human Nutrition

HNF 150- Introduction to Nutrition and Food Science; 300 students. (Fall, 1998)

HNF 470- Medical Nutrition Therapy; ~90 students. (Spring 1999, 2000)

Graduate Instruction, University of Oklahoma Health Sciences Center

Department of Nutritional Sciences, Non-energy Nutrients (NS 5833), 3 credit hours, Fall, 2021.

Graduate Instruction, Oregon State University

School of Biological and Population Health Sciences and Department of Food Science and Technology, Health Benefits of Functional Foods, Nutraceuticals and Dietary Supplements (NUTR/FST 514; 3 credits; Professor Neil Shay), 2017, 2019 (Alternative year offering)

School of Biological and Population Health Sciences, Metabolic interrelationships in nutrition (NUTR 618; 3 credit hours; Dr. Donald Jump, instructor), Four, two hour lectures.

College of Pharmacy Complementary Medicine (PHAR 714; 3 credit hours); provide three lectures, 2013-2018.

Graduate Instruction, Michigan State University

College of Human Medicine (HM 539- Hematopoietic/Neoplasia Domain) (Fall 2001 to 2012): One two-hour lecture on "Dietary Factors and Cancer Risk."

College of Human Medicine (HM 561- General Pathology) (Spring 2006 to 2010): One two-hour lecture on "Nutritional Pathologies."

College of Osteopathic Medicine (OST 524- Systems Biology: Cardiovascular) (Fall 1999 to 2012): Three one-hour lectures on "Diet in the Prevention and Treatment of Hypertension", "Diet and Ischemic Heart Disease" and "Dietary Patterns and Cardiovascular Disease Risk".

Department of Epidemiology, College of Human Medicine (EPI 814-Nutritional Epidemiology) (Fall even years to 2005): One, three-hour lecture on "Biomarkers of Dietary Intakes."

Department of Epidemiology, College of Human Medicine (EPI 815-Epidemiology of Cardiovascular Disease) (Spring odd years to date): One three-hour lecture on "Role of Diet in Cardiovascular Disease Prevention and Treatment"

Department of Epidemiology, College of Human Medicine (EPI 823-Cancer Epidemiology) (Fall odd years to 2012): One three-hour lecture on "Diet, Biomarkers and Cancer Prevention."

HNF 840- Human Nutrition and Chronic Diseases (Fall 2001-odd years- to date): One two-hour lecture on "Diet and Colorectal Cancer Risk."

FSC 891- Diet and Immune Function (Fall 2003-odd years-to 2012): One two-hour lecture on "Prebiotics/Probiotics: Immunomodulatory Potential."

Teaching in Department of Food Science and Human Nutrition, Michigan State University

Department of Food Science and Human Nutrition/ W.K. Kellogg Institute for Food and Nutrition Research Joint Graduate Program; (HNF 891- Principles of Human Nutrition); 20 students. (Spring, 1999)

Administration in Department of Food Science and Human Nutrition, Michigan State University

Post-Baccalaureate Program Administration: Faculty Advisor and former Dietetic Internship Director, MSU Dietetic Internship Program (2003-2012)

Established relationships with 20+ healthcare and foodservice facilities in West Michigan, lead the successful development of the self-study (December, 2003) and the American Dietetic Association (ADA) accreditation site visit (March, 2004) for this self-sustaining post-baccalaureate internship program. Provided faculty leadership for Ms. Gail Rogers, MS, RD, who serves as the MSU Dietetic Internship Director for this ADA-accredited supervised practice program. Internship graduates have experienced >90% pass rate on the Registration Examination for Dietitians and ~100% employment 6 months after graduation.

Mentoring and Advising

Postdoctoral Research Associates

1. Jenifer Fenton, PhD (2000-2002, Michigan State University (MSU) postdoctoral research associate; 2004-2006, NCI Cancer Prevention Fellow in Hord lab; current position, associate professor of nutrition at MSU): Dietary factors and colon epithelial cell phenotypes associated with tumorigenesis and cancer.
2. Yanfen Zhai, PhD (2002-2003): Dietary factors and colon epithelial cell phenotypes associated with tumorigenesis.

Doctoral

1. Rosa Moon Keller, PhD, 2021 graduate: Investigating the Mechanisms for the Effects of Nitrate Treatment on Exercise Performance and Energy Metabolism. Current position: University of California, San Francisco internship.
2. Melissa Conley, PhD, 2017 Graduate. Dissertation research: The Roles of Dietary Nitrate in Bone and the Gut in an Ovarian Hormone-deficient Rodent Model. Current position: Assistant Professor, Bastyr University.
3. Celeste A. Clark, PhD, 2005 Graduate. Dissertation: Implications of breakfast meal soluble fiber content on midday meal metabolic responses in adults with Type 2 diabetes mellitus. Current position: industry consultant and advisor as emeritus Senior

Vice President, The Kellogg Company, Battle Creek, MI.

M.S.

1. Amanda Metz, RD. Graduated 2007. Thesis: Colon Epithelial Cells Exposed to Probiotic Bacteria Modify Macrophage Activation and Chemotaxis in Response to a Bacterial Pathogen. Current Position: Clinical Dietitian, Lakeland Health Systems, St. Joseph, MI.
2. Erica Block, RD. Graduated 2005. Thesis: Lactobacilli differentially modulate proinflammatory mediator production by colon epithelial cells caused by exposure to a foodborne pathogen. Current Position: Clinical Dietitian, University of Illinois-Chicago Hospital.
3. Raquel Pereira, RD. Graduated 2004. Project: Nutrition Therapy in Practice Interactive Software Development. Current position: Microsoft Corporation, Redmond, WA.
4. Brian Klaus. Graduated 2003. Non-thesis option. Current position: Glaxo Smith Wellcome; Flint, MI.
5. Jennifer Laird, RD. Graduated 2003. Project: Induction of proinflammatory mediators by Salmonella Typhimurium DT104 in colon epithelial cells. Current position: Instructor, Indiana University-Purdue University, Fort Wayne, IN.
6. Julie Arnold, RD. Graduated 2002. Thesis: Prebiotic characterization of dietary fibers: a human in vitro study. Current position: Nutrition Specialist, Kraft Foods, Inc., Glenview, IL.
7. Amy L. Malow, RD. Graduated 2001. Project: Dietary factors in cancer prevention: a causal inference study. Current position: President, Jefferson Beach Yacht Sales.

Undergraduate Research Mentorship

I have employed 6 students at OSU in my laboratory through the Austin Endowment and Undergraduate Research Awards Program.

Honors College Thesis Advisor:

Christiana Logan (2013-2017)

Mandy Wolfe (2017-2020)

M. Catherine Prater (2014-2019)

Jeremy Chu (2016-2018)

Lynn Zhang (2013-2014)

Michaela Zucker (2013-2015)

Other students:

Undergraduate Academic Advising

Served as academic and professional advisor to over 400 current undergraduate students and dietetics alumni from 1998-2012 at MSU and 40 students at OSU. Provide letters of recommendation for students applying to dietetic internships, medical and professional schools ranging from 10-35 letters each January.

PROFESSIONAL SERVICE

Michigan State University

University Level

- | | |
|-----------|---|
| 2004-2012 | MSU Cancer Consortium; provide guidance to University efforts to increase cancer research capacity and establish an NCI-designated Cancer Center. |
| 1999-2002 | University Hearing Board |

College Level

Michigan State University

- | | |
|-----------|--|
| 2000-2003 | Chair, College Curriculum Committee, College of Human Ecology. |
| 2000-2002 | Undergraduate Grievance Committee, College of Human Ecology. |
| 1999-2002 | Chair, Undergraduate Advisory Committee, College of Human Ecology. |

Oregon State University

College Level

- | | |
|-----------|---|
| 2013-2016 | MPH Curriculum Integration Task Force |
| 2013-2014 | Faculty Search Committee Co-Chair, Faculty positions in Health Promotion and Health Behavior, School of Social and Behavioral Health Sciences |

College/ Program/ Department Level

Michigan State University

- | | |
|------------|--|
| 2004-2012 | FSHN Spring Seminar Committee |
| 2006-2012 | FSHN Spring Seminar Committee, Chair |
| 2009 | FSHN Faculty Search Committees, Chair for "John Hannah Distinguished Professorship in Molecular Nutrition"). |
| 2003, 2007 | FSHN Faculty Search Committees |
| 2005-2008 | FSHN Department Advisory Committee (DAC), Member |
| 2006-2008 | FSHN Department Advisory Committee (DAC), Chair |
| 1999-2002 | Scholarship Committee, Department of Food Science and Human |

Nutrition

- 1999-2000 FSHN Curriculum Review Committee
- 1998-2001 Chair, Undergraduate Affairs Committee, Department of Food Science and Human Nutrition

Oregon State University

- 2012-2020 Member, OSU Moore Family Center for Whole Grain Foods, Nutrition and Preventive Health (Endowed Director: Emily Ho), and OSU Center for Healthy Aging Research (Director: Carolyn Aldwin)
- 2012-2014 Nutrition Program Director
- 2013-2014 BPHS Personnel Committee
- 2013 Faculty Search Committee Chair, Director, DPD Director position

University of Oklahoma Health Sciences Center

- Graduate Council Graduate Faculty Appointment Committee
College of Allied Health Elections Committee
College of Allied Health Technology Committee

National

- 2021 External Reviewer, Department of Human Sciences (Nutrition Program), The Ohio State University.
- 2008-2020 Member, U.S. Department of Agriculture, National Institute for Food and Agriculture, Multistate Research Project Team, W2002-4002: "Nutrient Bioavailability--Phytonutrients and Beyond"
- 2019 Chair, Review Committee, Kansas Board of Regents, New Doctoral Program Proposal in Clinical Nutrition at the University of Kansas Medical Center, Kansas City, KS, July.
- 2013-2016 Chair-Elect, Chair and Past Chair, Board of Directors, Association of Nutrition Departments and Programs (andponline.org).
- 2009-2013 Member, Future Summit Council on Dietetic Education, Regional Advisor and Think Tanks, Academy of Nutrition and Dietetics, Chicago, IL.
- 2003-2012 Hurley Medical Center Dietetic Internship Advisory Committee, Hurley Medical Center Dietetic Internship Program, Flint, MI.
- 2009-2010 Advisory Committee, Research Dietetic Practice Group, American

Dietetic Association, Chicago, IL.

- 2007-2009 Editorial Review Panel, "Nutrition Fact Sheets" for the Journal of the American Dietetic Association, Chicago, IL.
- 2006-2008 Career Development Fellowship Program, American Institute of Biological Sciences, Department of Defense (USAMRMC).
- 2005-2007 Chair-Elect, Chair and Past Chair, Diet and Cancer Research Interest Section, American Society for Nutrition, Federation of the American Societies for Experimental Biology.
- 2002-2004 Member, Commission on Cancer, American College of Surgeons, Chicago, IL. Appointed member of Colorectal Disease Site Team.

HONORS AND AWARDS, MEMBERSHIPS, & SPECIAL RECOGNITION

- 2014-2020 Celia Strickland Austin and G. Kenneth Austin III Professor in Public Health and Human Sciences
- 2004 Research/Creative Activities Excellence Award, College of Human Ecology, Michigan State University.
- 2002 Teaching Excellence Award, College of Human Ecology, Michigan State University.
- 2001 Dannon Institute Nutrition Leadership Institute Award, Aspen Wye River Conference Center, Queenstown, MD; June.
- 1993 A.H. Ismail Interdisciplinary Program Doctoral Research Award, Purdue University Graduate School.

Ad Hoc Manuscript Review:

American Journal of Clinical Nutrition
American Journal of Physiology: Gastrointestinal and Liver Physiology
British Journal of Nutrition
Cancer Epidemiology, Biomarkers and Prevention
Cell Proliferation
Chemico-Biological Interactions
Experimental Biology and Medicine
Journal of Agricultural and Food Chemistry
Journal of Applied Physiology
Journal of Food Science
Journal of Nutrition
Journal of Nutrition Education and Behavior
Journal of Nutritional Biochemistry
Journal of Food Protection

Molecular Cancer Research
Molecular Food and Nutrition Research
Nature
Nutrients
Nutrition and Cancer
Nutrition Reviews
Nutrition Today
Topics in Clinical Nutrition

Grant Review:

2013-2014 2018-2021	Review Panel Member, U.S. Department of Agriculture, National Institute of Food and Agriculture, AFRI Foundational Grants Program (A1343; Food and Human Health)
2017-2019	Review Panel Member, USDA Fellowships Panel (Predoctoral and Postdoctoral), National Institute for Food and Agriculture, US Department of Agriculture, Washington, D.C.
2012, 2014	Review Panel Member, The Role of Microbial Metabolites in Cancer Prevention and Etiology (UO1; PAR-10-208) National Institutes of Health, National Cancer Institute, Bethesda, MD.
2012	Review Panel Member, Polyphenols, Agriculture and health, European Union, Portuguese Foundation for Science and Technology.
2008-2012	Review Panel Member, Inflammatory Bowel Disease Panels (Basic and Translational Panels), Research and Materiel Command (USAMRMC) Peer Reviewed Medical Research Program, American Institute of Biological Sciences, annually.
2005, 2010	Review Panel Member, Transdisciplinary Research on Energetics and Cancer (TREC) and TREC Coordinating Centers (RFA CA05-010/011), NIH Grant Special Emphasis Panelist, Behavioral Research Program, Division of Cancer Control and Population Sciences, National Cancer Institute, Bethesda, MD, March 2005 and August, 2010.
2003, 2005	Review Panel Member, "Molecular Targets for Nutrients in Prostate Cancer Prevention (RFA CA04-004)", NIH Grant Special Emphasis Panelist, National Cancer Institute, National Institutes of Health.

Symposia Leadership:

- 2016 Research and Partnership Opportunities within the NIH National Nutrition Research Roadmap, 2016 American Society of Nutrition Annual Meeting, Led, organized and co-chaired (with Rachel Ballard, National Cancer Institute) this symposium with six speakers from NIH and USDA nutrition programs. San Diego, CA
(<https://meeting.nutrition.org/2016//program/research-and-partnership-opportunities-within-the-national-nutrition-research-roadmap-andp-forum/>)
- 2014 **Dietary Nitrates and Nitrites: Prescribing Foods for Nitric Oxide Production**, 2014 Food and Nutrition Conference and Exposition, Academy of Nutrition and Dietetics, Organized and co-chaired (with Nathan Bryan, University of Texas), presentation title: "Evidence for Consideration of Dietary Guidelines for Nitrite and Nitrate", Atlanta, GA.
- 2008 A Stimulating Conversation: Interactions between Epithelial Cells and Immune Cells in Carcinogenesis. American Society for Nutrition Symposium, Experimental Biology 2008, San Diego, CA; Organized symposium with Dr. Susan Percival (University of Florida) as a collaboration between the ASN Diet and Cancer RIS and the Nutritional Immunology RIS (Dr. Christopher Jolly, Chair).
- 2005 Nutritional 'OMICS' Technologies for Elucidating the Roles of Bioactive Food Components in Colon Cancer Prevention. American Society for Nutritional Sciences Symposium, Experimental Biology 2005, San Diego, CA; Organized symposium with Dr. Cindy D. Davis (Nutritional Sciences Research Group, Division of Cancer Prevention, National Cancer Institute)
- 2000 Diet and Cancer Research: Interpreting Results from Studies in Cells, Rodents, and People. Organized and co-chaired (with Stephen Hursting, University of Texas), American Dietetic Association's Food and Nutrition Conference and Exhibition, Denver, CO; October 18, 2000.

Memberships

- 2014-Present Nitric Oxide Society
- 1999-Present American Society for Nutrition
- 1988-Present Academy of Nutrition and Dietetics, Registered Dietitian Nutritionist