

**Curriculum Vitae**  
**NORMAN G. HORD, Ph.D., M.P.H., R.D.**

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**EDUCATION**

Michigan State University B.S. (1983) Foods and Nutrition  
Clemson University M.S. (1988) Human Nutrition  
Purdue University Ph.D. (1994) Nutrition  
Johns Hopkins University M.P.H. (1995) Public Health

**PROFESSIONAL EXPERIENCE**

*Associate Professor* - School of Biological and Population Health Sciences  
College of Public Health and Human Sciences, Oregon State University, Corvallis,  
OR. July, 2012 to date.

*Associate Professor* - Department of Food Science and Human Nutrition, Michigan  
State University, East Lansing, MI. July 2004 to date.

*Assistant Professor* - Department of Food Science and Human Nutrition, Michigan  
State University, East Lansing, MI. January 1998 to June 2004.

**Research (35%):** Supervision of a research program that focuses on the role of dietary factors and adipokines on phenotypes in colon epithelial cells related to colorectal cancer risk. We have recently expanded our interests to include the role of dietary compounds in the prevention of airway inflammation.

**Teaching (60%):**

***Undergraduate Instruction***

***HNF 471 and 472 – Medical Nutrition Therapy 1 and 2 (with Patricia Thurston, MS, RD)*** 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*

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

**College of Human Medicine (HM 561- General Pathology)** (Spring 2006 to date): One two-hour lecture on “Nutritional Pathologies.”

**College of Osteopathic Medicine (OST 524- Systems Biology: Cardiovascular)** (Fall 2000 to date): 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 date): 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 date): One two-hour lecture on “Prebiotics/Probiotics: Immunomodulatory Potential.”

*Past Teaching in Department of Food Science and Human Nutrition*

**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 (5%): Faculty Advisor, MSU Dietetic Internship Program.**

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.

***Cancer Prevention Fellow Preventive Oncology Branch, Division of Cancer Prevention, National Cancer Institute. August 1994 - December 1997***

Research (100%): Established research program in the Laboratory of Nutritional and Molecular Regulation (with Drs. J.M. Phang and J. Mei) using conditionally immortal colonic epithelial cells to examine the role of inducible nitric oxide synthase in cyclooxygenase-2 expression.

***Research Assistant - Department of Foods and Nutrition, Purdue University. August 1990- August 1994.***

Ph.D. Dissertation: Characterization of the intracellular localization of the aryl hydrocarbon receptor, aryl hydrocarbon receptor nuclear translocator (Arnt), and Hsp90 and the physicochemical properties of Arnt.

***Research Assistant - Department of Food Science and Nutrition, Clemson University. September 1986 – August 1988.***

M.S. Thesis: The effect of dietary phytate and calcium level on parameters of bone density in Sprague-Dawley rats.

**PROFESSIONAL MEMBERSHIPS**

American Society for Nutrition (1999 to date)  
American Dietetic Association, Registered Dietitian (1988 to date)  
Great Lakes Cancer Institute, Research Member (2004 to date)  
Gerson Lehrman Group Healthcare Council (2005 to date)

**AWARDS AND HONORS**

A.H. Ismail Interdisciplinary Program Doctoral Research Award, Purdue University Graduate School, 1993.  
Dannon Institute Nutrition Leadership Institute Awardee, Aspen Wye River Conference Center, Queenstown, MD; June, 2001.  
2002 Teaching Excellence Award, College of Human Ecology, Michigan State University.  
2004 Research/Creative Activities Excellence Award, College of Human Ecology, Michigan State University.

**PROFESSIONAL SERVICE**

Advisory Committee, Research Dietetic Practice Group, American Dietetic Association, Chicago, IL (2009-2010)  
Hurley Medical Center Dietetic Internship Advisory Committee, Hurley Medical Center Dietetic Internship Program, Flint, MI; 2003 to date.  
Editorial Review Panel, "Nutrition Fact Sheets" for the Journal of the American Dietetic Association, Chicago, IL. Appointment term: 2007-2009.  
Chair, Diet and Cancer Research Interest Section, American Society for Nutrition, Federation of the American Societies for Experimental Biology, Term: 2005-2007.  
Commission on Cancer Member, American College of Surgeons, Chicago, IL.  
Appointed member of Colorectal Disease Site Team (Appointment term: 2002-2004).

**Ad Hoc Reviewer:** Journals

*American Journal of Clinical Nutrition*

*American Journal of Physiology: Gastrointestinal and Liver Physiology*

*British Journal of Nutrition*

*Cell Proliferation*

*Chemico-Biological Interactions*

*Experimental Biology and Medicine*

*Journal of Agricultural and Food Chemistry*

*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*

*Nutrition and Cancer*

*Topics in Clinical Nutrition*

**Grant Reviewer- Ad Hoc:**

*Inflammatory Bowel Disease Panels (Basic and Translational Panel)*, Research and Materiel Command (USAMRMC) Peer Reviewed Medical Research Program, AIBS, 2008 annually to present.

*The Role of Microbial Metabolites in Cancer Prevention and Etiology* (UO1) PAR-10-208, National Institutes of Health/ National Cancer Institute, Bethesda, MD, March, 2011 and April, 2012.

*Trans-disciplinary Research in Energetics and Cancer* (TREC), National Institutes of Health/ National Cancer Institute, Alexandria, VA, August, 2010.

American Institute of Biological Sciences, Department of Defense (US Army Medical Career Development Fellowship Program; Medical Research Council (United Kingdom): 2007.

*Trans-disciplinary Research on Energetics and Cancer (TREC) and TREC Coordinating Centers* (RFA CA05-010/011), NIH Grant Special Emphasis Panelist, Bethesda, MD; March 2-3, 2005

*Molecular Targets for Nutrients in Prostate Cancer Prevention* (RFA CA04-004), NIH Grant Special Emphasis Panelist, National Cancer Institute, National Institutes of Health, November 13-14, 2003.

**Symposia Leadership:**

*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).

*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)

*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.

## **UNIVERSITY SERVICE**

University Level

*University Hearing Board*, 1999-2002.

*MSU Cancer Consortium* (2004 to date); provide guidance to University efforts to increase cancer research capacity and establish an NCI-designated Cancer Center.

College Level

*Chair, Undergraduate Advisory Committee*, College of Human Ecology, 1999-2002.

*Undergraduate Grievance Committee*, College of Human Ecology, 2000-2003.

Department Level

*Chair, Undergraduate Affairs Committee*, Department of Food Science and Human Nutrition, 1998-2001.

*Scholarship Committee*, Department of Food Science and Human Nutrition (1999-2002)

*FSHN Curriculum Review Committee* (1999-2000)

*FSHN Department Advisory Committee (DAC) Member*, 2005-2008; elected *Chair* (2006-2008).

*FSHN Faculty Search Committees* (2003; 2007; 2009 chair for "John Hannah Distinguished Professorship in Molecular Nutrition" search).

## **FUNDING**

1. "Whole Oat Utilization in Humans." General Mills, Inc., James Ford Bell Technical Center, Minneapolis, MN. 1999-2000; N. Hord, J. Arnold, L. Bourquin, \$15,500.00.
2. "Breakfast Meal Soluble Fiber Content: Implications for Metabolic Control," Kellogg Company, 1999-2003, \$225,000.00; Co-PIs: L. Weatherspoon, D. Henry (Physiology).
3. "Dietary Curcuminoids and Colon Epithelial Cell Migration," The Office of Research, Outreach and International Programs, College of Human Ecology, Michigan State University, 2000-2001, \$15,000.00.
4. "Nutrition Therapy in Practice: Strengthening Medical Nutrition Therapy Skills," United States Department of Agriculture Higher Education Challenge Grant Program, 2001-2003, Co-PIs: D. Golyzyski, L. Weatherspoon, \$99, 250.00
5. "Flavonoid Modulation of Epithelial Migration and Signaling" (1R03CA101117-01), National Institutes of Health, 2003-2005, \$149,250.00.
6. "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.

7. "Allergic airways and dietary tocopherols", MSU Intramural Grant Program, James Wagner (PI) Pathobiology & Diagnostic Investigation; Norman Hord (Co-PI), 2009-2011, \$60,000.00.

8. "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, 2010-2011, \$15,000.00.

### **Submitted Grants**

Wagner, J. (PI), Harkema, J. (Co-PI) and Hord, N.G. (Co-PI). Dietary components affect cardiometabolic responses to particulate air pollution, National Institute of Environmental Health Sciences RFA-ES-11-002 "Dietary Influence on the Human Health Effects of Environmental Exposures (R21)", May, 2011.

Schwartz, K. (PI), Hord, N.G. (Co-PI), Olson, L.K., Noel, M., al-Janadi, A., Berger, K., Sweeley, Chang, H. Pilot study of a metabolic therapy for the management of primary brain tumors. American Institute for Cancer Research Investigator-Initiated Grant Programs, April, 2011.

Schwartz, K. (PI), Hord, N.G. (Co-PI), Olson, L.K., Noel, M., al-Janadi, A., Berger, K., Sweeley, Chang, H. Feasibility of calorie-restricted ketogenic diet to control metabolic parameters and growth of human gliomas. Clinical-Translational Science Institute, Michigan State University, January, 2011.

### **DEGREES AWARDED**

#### **Ph.D.**

1. Dr. Celeste A. Clark. 2005. Dissertation: Implications of breakfast meal soluble fiber content on midday meal metabolic responses in adults with Type 2 diabetes mellitus. Current position: Senior Vice President, The Kellogg Company, Battle Creek, MI.

#### **M.S.**

1. Amanda Metz, RD. 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. 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. 2004. Project: Nutrition Therapy in Practice Interactive Software Development. Current position: Health Education Specialist, HealthPartners, Inc., Minneapolis, MN.

4. Brian Klaus. 2003. Non-thesis option. Current position: Glaxo Smith Wellcome; Flint, MI.

5. Jennifer Laird, RD. 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. 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. 2001. Project: Dietary factors in cancer prevention: a causal inference study. Current position: Director, Michigan Nutrition Support Network.

**Graduate Committee Service:** Currently serve on four graduate student advisory committees (2 doctoral and 2 master's candidates). Rendered service to 12 alumni as graduate advisory committee member.

**Undergraduate Advising:** Serve as academic and professional advisor to 324 current undergraduate students and dietetics alumni since 1998. Provide letters of recommendation for students applying to dietetic internships, medical and professional schools totaling approximately 35 letters each January.

## **PUBLICATIONS**

1. 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.
2. Hord NG. (2011) Dietary nitrates, nitrites, and cardiovascular disease. *Curr Atheroscler Rep*. Dec;13(6):484-92. Review.
3. Hord NG. (2011) *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/Humana Press, In Press (book chapter).
4. Hord, NG, Ghannam, J, Garg, JK, Pamela D. Berens, PB and Bryan NS. (2010) Nitrate and nitrite content of human, formula, bovine, and soy milks: implications for dietary nitrite and nitrate recommendations. *Breastfeeding Medicine* Oct 19. [Epub ahead of print].
5. 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.
6. Hord, NG. (2008) Eukaryotic-microbiota cross-talk: potential mechanisms for health benefits of prebiotics and probiotic bacteria. *Annual Review of Nutrition* 28:215-31.
7. 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.
8. 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<sup>Min/+</sup>* colon epithelial cells. *International Journal of Cancer* 122(11):2437-45.
9. 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.
10. 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.
11. 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.

12. 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*, 27(6)893-902.
13. 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.
14. Fenton, JI and Hord, NG. (2006) Stage matters: employing in vitro models useful for diet and cancer chemoprevention prevention research. *Carcinogenesis* 27: 893-902.
15. Williams, M.T. and Hord, N.G. (2005) The role of dietary factors in cancer prevention: beyond fruits and vegetables. *Nutrition in Clinical Practice*. 20 (4): 451-459.
16. Fenton, J.I., Hord, N.G., Lavigne, J., Hursting, S.P. (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.
17. Fenton, J.I. and Hord, N.G. (2004) Flavonoids alter cell migration in non-tumorigenic colon epithelial cells differing in *Apc* genotype. *Nutr. Cancer* 48: 2
18. Fenton, J.I., Wolff M.S., Orth, M.I. and Hord, N.G. (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.
19. Petrusis, J.R., Hord, N.G., Perdew, G.H. (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.
20. Mei, J.M., Hord, N.G., Winterstein, D., Donald, S. and Phang, J.M. (2000) Differential formation of  $\beta$ -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
21. Mei, J.M., Hord, N.G., Winterstein, D., Donald, S. and Phang, J.M. (2000) Expression of prostaglandin endoperoxide H synthase-2 and formation of  $\beta$ -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
22. Wilson, T. and Hord, N.G. (2000) Design and construction of an internet-based course in food science. *Topics in Clinical Nutrition*, 15 (3): 35-43.
23. Hord, N.G. (1999) Dietary factors, genetic susceptibilities, and colon cancer risk: a brief review. *Topics in Clinical Nutrition*, 14: 31-38.
24. Mei, J.M., Hord, N.G., Winterstein, D., Donald, S. and Phang, J.M. (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.
25. Singh, S. S., Hord, N. G., and Perdew, G. H. (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.
26. Hord, N. G. and Perdew, G. H. (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.
27. Perdew, G. H., Hord, N.G., Hollenback, C. E., and Welsh, M. J. (1993) Localization and characterization of the 86- and 84-kDa heat shock proteins in hepa



1c1c7 cells. Exp. Cell Res. 209, 350-356.

28. Kunkel, M.E., Powers, D.L., Hord, N.G. (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.

### **Book Reviews**

1. Hord, N.G. (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, \$125.00, 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, \$19.95, 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. 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](#).

2. 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](#).

3. 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.

4. 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.

5. 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.

6. 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.

7. Fenton JI, Hursting SD, Perkins SN, Hord NG. (2007) 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.

8. Fenton, JI, Interleukin-6 production induced by leptin treatment promotes STAT3 dependent cell proliferation in an ApcMin/+ colon epithelial cell line. (2005) American Association for Cancer Research Symposium on the Tumor Microenvironment. Ft.Fort Myers, FL.

9. Fenton, JI, Block, ER, Ustunol, Z, Pestka, JJ, Hord, NG (2005) 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.

10. Fenton, JI, Hord, NG and Hursting, SD (2004) 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;

11. Fenton, JI, Amin, S, Ustunol, Z, Shin, H and Hord, NG (2003) *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.

12. Clark, C, Weatherspoon, LW, McBurney, M, Henry, D and Hord NG. (2002) 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.

13. Clark, C, Weatherspoon, LW, McBurney, M, Henry, D and Hord NG. (2002) A Cross-sectional Analysis of Dietary Intake Patterns in Individuals with Type 2 Diabetes Mellitus. American Dietetic Association Annual Meeting, Philadelphia, PA.

14. 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, 2002, New Orleans, LA.

15. 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, 2001, Orlando, FL.

16. Arnold, J.A., Miller, R., Hord, N.G. (2000) 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.
17. Mei, J.M., Hord, N.G., Winterstein, D.F., Donald, S.P. and Phang, J.M. (2000) Expression of prostaglandin endoperoxide H synthase-2 and formation of  $\beta$ -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.
18. Mei, J.M., Hord, N.G., Winterstein, D.F. and Phang, J.M. (1998) 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).
19. Hord, N.G, Mei, J.M., Winterstein D.F., Phang, J.M. (1998) 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.
20. 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.
21. Mei, J.M., Hord, N.G. and Phang, J.M. (1997) 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).
22. Hord, N.G. and Weed, D.L. (1997) 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.
23. Hord, N.G. and Phang, J.M. (1996) 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.
24. Singh, S.S., Hord, N.G., Perdew, G.H. (1995) 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.
25. Hord, N.G. and Perdew, G.H. (1994) 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.

### **Invited Presentations**

1. Nutrition and Health 2011 (Andrew Weil, MD), "Health Implications of Dietary Nitrate and Nitrite", San Francisco, CA, May 2011.
2. Korean Nutrition Society Annual Meeting, "Obesity and Cancer Risk", Seoul, South Korea, November, 2010.
3. Johns Hopkins University Bloomberg School of Public Health, "Physiological Determinants of Health Implications of Dietary Nitrate and Nitrite Intakes", Baltimore, MD, November, 2010.
4. Hershey Center for Health and Nutrition, "Physiological Determinants of Health Implications of Dietary Nitrate and Nitrite Intakes", Hershey, PA, December 2010.

5. Faculty, Molecular Prevention Course, Cancer Prevention and Control Academic Curriculum, Division of Cancer Prevention, National Cancer Institute, Bethesda, MD, July 2006-2010. *Rendered faculty service to this and other NCI courses since 1997.*
6. "Diet and Cancer Prevention", Pathways to Health Symposium, San Diego State University, San Diego, CA, March, 2010.
7. Boyd O'Dell Lecture "Modeling the Role of Leptin and Adiponectin on Early Events In Colon Carcinogenesis", Nutrition and Exercise Research Week, Department of Nutritional Sciences, University of Missouri, Columbia, MO. March, 2009.
8. 2009 Sigma Xi Lecture "Dietary Guidance to Prevent Cancer", Eastern Michigan University, March, 2009.
9. American Dietetic Association Dietetic Educators Practice Group, "Teaching Evidence-Based Dietetics: Complementary and Alternative Medicine as a fruitful application", Indianapolis, IN, April, 2009.
10. Symposium on Cancer Research, Cellular Energy, Metabolism and Cancer, "Modeling the Role of Leptin and Adiponectin on Early Events In Colon Carcinogenesis", University of Texas M. D. Anderson Cancer Center, April, 2009.
11. Dietitians of West Michigan Annual Meeting, "Diet, Nutrition, Physical Activity and Cancer Risk: A Summary of the Second International Report", Zeeland Community Hospital, Zeeland, MI, February, 2009.
12. Boyd Orr Lecturer, Nutrition Society (UK), "Resolving the Diet and Cancer Risk Conundrum", University of Ulster, Coleraine, Northern Ireland, July 18, 2007.
13. Dietitians of West Michigan, "The American Dietetic Association's Nutrition Care Process", January 17, 2007.
14. Grand Rounds Seminar, University of Michigan Comprehensive Cancer Center, "What Can Cells *In Vitro* Teach Us About Cancer Prevention?" Monday, November 13, 2006.
15. Faculty for the Summer Curriculum in Cancer Prevention, "Diet-Dependent Biology in Cancer", Division of Cancer Prevention, National Cancer Institute, Bethesda, MD; July 1997- 2005.
16. Invited Speaker for National Cancer Institute Workshop, "Immunonutrition: Enhancing Tumoricidal Cell Activity", Bethesda, MD; March 23, 2005.
17. Invited Speaker, "Dietary Curcumin and Flavonoids Stimulate Colon Epithelial Cell Migration via Stimulating Membrane-type Matrix Metalloproteinase Activity", 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. Experimental Biology 2003 Annual Meeting, San Diego, CA. "*Lactobacillus casei* and *Lactobacillus reuteri* attenuate *Salmonella dublin*-induced production of inflammatory mediators in colon epithelial cells." Featured Topic Session Title: Diet in Colon Cancer; April 14, 2003.

22. 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).
23. 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.
24. 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.
25. 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.
26. 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; *Symposium Organizer and Presenter* (Sponsored by Kellogg Company).
27. Role of Diet in Chronic Disease Risk, *MSU Extension Fall Conference*, October 2000.
28. Introduction to Evidence-Based Medicine, *Michigan Dietetic Association Annual Meeting*, Grand Rapids, MI, May, 2000.
29. 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.
30. National Dietary Guidance: Past, Present and Future, *Michigan State University Extension Annual Nutrition Conference*, March, 2000.
31. The Obesity Epidemic: The Biology of Affluence. *Andrews University Department of Biology Seminar Series*, Berrien Springs, MI, January, 1999.
32. Successful Aging: Risk Perception and the Role of Lifestyle in Chronic Disease, *Healthy U "Health Happenings" Health Promotion Program*, October 1998.
33. Diet and Chronic Disease Prevention: Food, Supplements, or Both?, *Michigan State University Extension Annual Nutrition Conference*, Kellogg Center, Michigan State University, April, 1998.
34. 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.
35. Clinical Trials of Dietary Supplements for Chronic Disease Prevention: Lessons We're Learning, *Maryland Dietetic Association Annual Meeting*, Johns Hopkins Bayview Hospital, July 1997
36. Alternative Medicine Today, *Health Expo '97*, Martinsburg Regional Health Systems, Martinsburg, WVA, July 1997.
37. Lysophosphatidic Acid in the Chemoprevention of Colon Cancer in Min Mice. *National Cancer Institute Director's (Dr. Richard Klausner) Review of the Cancer Prevention Fellowship Program*, December, 1995.