

CURRICULUM VITAE

NAME

Thompson, Henry J

ADDRESS

Horticulture and Landscape Architecture
College of Agricultural Sciences

Shepardson

PHONE

(970) 491-7748

EDUCATION

1975 Ph D, Rutgers University

1974 MS, Rutgers University

1974 M. Phil., Rutgers University

1972 BS, Rutgers University

OTHER POSITIONS

2002 - Present Professor, Colorado State University.

1998 - 2002 Chair, Center for Nutrition in Prevention of Cancer.

1988 - 2002 Senior Scientist, AMC Cancer Research.

1993 - 1997 Director, Division of Laboratory Research Program, AMC Cancer Research Center.

1989 - 1993 Deputy Director, Laboratory Research Program, AMC Cancer Research Center.

1988 - 1989 Chief, Laboratory of Nutrition Research, AMC Cancer Research Center.

1985 - 1988 Professor, University of New Hampshire.

1983 - 1988 Director, University of New Hampshire.

1979 - 1985 Associate Professor, University of New Hampshire.

1979 - 1982 Chairman, University of New Hampshire.

1978 - 1979 Research Nutritionist, ITT Research Institute.

1976 - 1978 Associate Nutritionist, ITT Research Institute.

1976 Post doctoral fellow, Mayo Clinic, Rochester MN.

1973 - 1975 Research Intern, Rutgers University.

PUBLISHED WORKS

Refereed Journal Articles

- Kleintop, A. E., Myers, J. R., Echeverria, D., Thompson, H. J., Brick, M. A. (2016). Total Phenolic Content and Associated Phenotypic Traits in a Diverse Collection of Snap Bean Cultivars. *Journal of the American Society for Horticultural Science*, 141(1), 3-11.
- Thompson, H. J., Neuhouser, M. L., Lampe, J. W., McGinley, J. N., Neil, E. S., Schwartz, Y., McTiernan, A. (2016). Effect of low or high glycemic load diets on experimentally induced mammary carcinogenesis in rats. *Molecular Nutrition & Food Research*.
- Sandhu, N., Schetter, S. E., Liao, J., Hartman, T. J., Richie, J. P., McGinley, J. N., Thompson, H. J., Prokopczyk, B., Dubrock, C., Signori, Jr, C., Hamilton, C., Calcagnotto, A., Trushin, N., Aliaga, C., Demers, L., El-Bayoumy, K., Manni, A. (2015). Influence of obesity on breast density reduction by omega-3 fatty acids: Evidence from a randomized clinical trial. *Cancer prevention research (Philadelphia, Pa.)*.
- Thompson, H. J., Sedlacek, S. M., Wolfe, P., Paul, D., Lakoski, S. G., Playdon, M. C., McGinley, J. N., Matthews, S. B. (2015). Impact of Weight Loss on Plasma Leptin and Adiponectin in Overweight-to-Obese Post Menopausal Breast Cancer Survivors. *Nutrients*, 7(7), 5156-76.
- Zhu, Z., Jiang, W., Thompson, M. D., Echeverria, D., McGinley, J. N., Thompson, H. J. (2015). Effects of metformin, buformin, and phenformin on the post-initiation stage of chemically induced mammary carcinogenesis in the rat. *Cancer prevention research (Philadelphia, Pa.)*, 8(6), 518-27.
- Manni, A., El-Bayoumy, K., Skibinski, C. G., Thompson, H. J., Santucci-Pereira, J., Bidinotto, L. T., Russo, J. (2015). Combination of Antiestrogens and Omega-3 Fatty Acids for Breast Cancer Prevention. *BioMed research international*, 2015, 638645.
- Thompson, H. J., Sedlacek, S. M., Playdon, M. C., Wolfe, P., McGinley, J. N., Paul, D., Lakoski, S. G. (2015). Weight loss interventions for breast cancer survivors: impact of dietary pattern. *PloS one*, 10(5), e0127366.
- (2013). Defining the Role of Histone Deacetylases in Inhibition of Mammary Carcinogenesis by Dietary Energy Restriction: Effects of SAHA and DER in Rat Model. *Cancer Prev Res (Phila)* 1-30-13; Available from PM:23365133.
- (2012). A systems pharmacokinetic and pharmacodynamic approach to identify opportunities and pitfalls in energy stress-mediated chemoprevention: the use of metformin and other biguanides. *Curr Drug Targets; Available from PM:23140331*, 14, 1876-1884.
- (2012). Cell signaling pathways associated with a reduction in mammary cancer burden by dietary common bean (*Phaseolus vulgaris* L). *Carcinogenesis 2012; Available from PM:22072617*, 33(1), 226-232.
- (2012). Dietary dry bean effects on hepatic expression of stress and toxicity-related genes in rats. *Br J Nutr 2012; Available from PM:22916814*, 108(suppl 1), S37-S45.
- (2012). Edible dry bean consumption (*Phaseolus vulgaris* L) modulates cardiovascular risk factors and diet-induced obesity in rats and mice. *Br J Nutr 2012; Available from PM:22916817*, 108(suppl 1), S66-S73.
- (2012). Effects of a caloric restriction weight loss diet and exercise on inflammatory biomarkers in overweight/obese postmenopausal women: a randomized controlled trial. *Cancer Res 5-1-2012; PMCID:PMC3342840 Available from PM:22549948*, 72(9), 2314-2326.
- (2012). Effects of energy restriction and wheel running on mammary carcinogenesis and host systemic factors in a

- rat model. *Cancer Prev Res (Phila)* 2012; *PMCID:PMC3294132*, Available from *PM:22246620*, 5(3), 414-422.
- (2012). Effects of limiting energy availability via diet and physical activity on mammalian target of rapamycin-related signaling in rat mammary carcinomas. *Carcinogenesis* 11-21-2011; Available from *PM:23125225*.
- (2012). High-dose sodium selenite toxicity cannot be prevented by the co-administration of pharmacological levels of epigallocatechin-3-gallate which in turn aggravates the toxicity. *Food Chem Toxicol*; Available from *PM:23137956*, 52, 36-41.
- (2012). Identification of a molecular signature underlying inhibition of mammary carcinoma growth by dietary N-3 fatty acids. *Cancer Res* 8-1-2012; Available from *PM:22651929*, 72(15), 3795-3806.
- (2012). Metabolite profiling of a diverse collection of wheat lines using ultraperformance liquid chromatography coupled with time-of-flight mass spectrometry. *PLoS One* 2012; *PMCID:PMC3431305* Available from *PM:22957002*, 7(8), e44179.
- (2012). Metabolomic analysis of the effects of edible dry beans (*Phaseolus vulgaris* L) on tissue lipid metabolism and carcinogenesis in rats. *Br J Nutr* 2012; Available from *PM:22916811*, 108(suppl 1), S155-S165.
- (2012). Physiological effects of bean (*Phaseolus vulgaris* L) consumption on cellular signaling in cancer. *Cell Cycle* 3-1-2012; Available from *PM:22349557*, 11(5), 835-836.
- (2012). Weight cycling and cancer: weighing the evidence of intermittent caloric restriction and cancer risk. *Cancer Prev Res (Phila)*, 4(11), 1736-42.
- (2011). Cell signaling pathways associated with a reduction in mammary cancer burden by dietary common bean (*Phaseolus vulgaris* L). *Carcinogenesis*, 33(1), 226-32.
- (2011). Chemoprevention of breast cancer by fish oil in preclinical models: trials and tribulations. *Cancer Res*, 71(19), 6091-6.
- (2011). Effect of a low fat versus a low carbohydrate weight loss dietary intervention on biomarkers of long term survival in breast cancer patients ('CHOICE'): study protocol. *BMC Cancer*, 11, 287.
- (2011). Mammary gland density predicts the cancer inhibitory activity of the N-3 to N-6 ratio of dietary fat. *Cancer Prev Res (Phila)*, 4(10), 1675-85.
- (2011). Metformin as an energy restriction mimetic agent for breast cancer prevention. *J Carcinog*, 10, 17.
- (2011). Quantitative assessment of mammary gland density in rodents using digital image analysis. *Biol Proced Online* 2011, 13(1), 4.
- (2011). Weight cycling and cancer: weighing the evidence of intermittent caloric restriction and cancer risk. *Cancer Prev Res (Phila)*, 4(11), 1736-42.
- (2010). A Method for Serial Tissue Processing and Parallel Analysis of Aberrant Crypt Morphology, Mucin Depletion, and Beta-Catenin Staining in an Experimental Model of Colon Carcinogenesis. *Biological Procedures Online* 18 May 2010, 12, 118-130.
- (2010). Characterization of Low Molecular Weight Chemical Fractions of Dry Bean (*Phaseolus vulgaris*) for Bioactivity Using *Caenorhabditis elegans* Longevity and Metabolite Fingerprinting. *J Agr Food Chem*, 58, 6697-6705.

- (2010). Collection of Epithelial Cells from Rodent Mammary Gland Via Laser Capture Microdissection Yielding High-Quality RNA Suitable for Microarray Analysis. *Biological Procedures Online* 3 March 2010, 12, 31-43.
- (2010). Evaluation of diversity among common beans (*Phaseolus vulgaris* L) from two centers of domestication using 'omics' technologies. *BMC Genomics*, 11, 685-691.
- (2010). Wheel running, skeletal muscle aerobic capacity and 1-methyl-1-nitrosourea induced mammary carcinogenesis in the rat. *Carcinogenesis*, 31, 1279-1283.
- (2010). Wheel running-induced changes in plasma biomarkers and carcinogenic response in the 1-methyl-1-nitrosourea-induced rat model for breast cancer. *Cancer Prevention Res*, 3(11), 1484-92.
- (2009). A transfer-less, multi-well liquid culture feeding system for screening small molecules that affect the longevity of *Caenorhabditis elegans*. *Biotechniques*, 47, Ix-Xv.
- (2009). Biomedical Agriculture. *Adv Agron*, 102, Jan-54.
- (2009). Candidate Mechanisms Accounting for Effects of Physical Activity on Breast Carcinogenesis. *Iubmb Life*, 61, 895-901.
- (2009). Chemical Composition and Mammary Cancer Inhibitory Activity of Dry Bean. *Crop Sci*, 49, 179-186.
- (2009). Effects of Physical Activity and Restricted Energy Intake on Chemically Induced Mammary Carcinogenesis. *Cancer Prev Res*, 2, 338-344.
- (2009). Energetics and mammary carcinogenesis. *J Appl Physiol*, 106, 911-918.
- (2009). Functional food characteristics of potato cultivars (*Solanum tuberosum* L). *J Food Compos Anal*, 22, 571-576.
- (2009). In Vitro Measures Used to Predict Anticancer Activity of Apple Cultivars and Their Comparison to Outcomes From a Rat Model of Experimentally Induced Breast Cancer. *Nutr Cancer*, 61, 510-517.
- (2008). Antioxidant properties of cultivars and selections from the Colorado potato breeding program. *Am J Potato Res*, 85, 267-276.
- (2008). Dietary energy restriction modulates the activity of AMP-activated protein kinase, Akt, and mammalian target of rapamycin in mammary carcinomas, mammary gland, and liver. *Cancer Res*, 68, 5492-5499.
- (2008). Effect of nonmotorized wheel running on mammary carcinogenesis. *Cancer Epidem Biomar*, 17, 1920-1929.
- (2008). Mechanisms Associated with Dose-Dependent Inhibition of Rat Mammary Carcinogenesis by Dry Bean (*Phaseolus vulgaris*, L). *J Nutr*, 138, 2091-2097.
- (2008). Modulation of the activities of AMP-Activated protein kinase, protein kinase B, and mammalian target of rapamycin by limiting energy availability with 2-deoxyglucose. *Mol Carcinogen*, 47, 616-628.
- (2007). Effects of dietary energy restriction on gene regulation in mammary epithelial cells. *Cancer Res*, 67, 12018-12025.
- (2006). Calorie restriction, exercise, and cancer prevention. *Toxicol Pathol*, 34, 994-994.
- (2006). Dietary botanical diversity affects the reduction of oxidative biomarkers in women due to high vegetable and fruit intake. *J Nutr*, 136, 2207-2212.

- (2006). Oxidative DNA damage and cancer risk assessment. *J Nutr*, 136, 2693s-2694s.
- (2006). Pre-clinical investigations of physical activity and cancer. *Carcinogenesis*, 27, 1946-1949.
- (2005). 2-Deoxyglucose as an energy restriction mimetic agent. *Cancer Res*, 65, 7023-7030.
- (2005). 8-Isoprostane F-2 alpha excretion is reduced in women by increased vegetable and fruit intake. *Am J Clin Nutr*, 82, 768-776.
- (2005). Effect of cytological fixative and environmental conditions on nuclear morphometric characteristics of squamous epithelial cells in sputum. *Cytom Part B-Clin Cy*, 67B, 19-26.
- (2005). Effects of dietary energy repletion and IGF-1 infusion on the inhibition of mammary carcinogenesis by dietary energy restriction. *Mol Carcinogen*, 42, 170-176.
- (2005). In vivo investigation of changes in biomarkers of oxidative stress induced by plant food rich diets. *J Agr Food Chem*, 53, 6126-6132.
- (2005). Weight control and breast cancer risk. *Cancer Epidem Biomar*, 14, 2772s-2772s.
- (2004). Adrenalectomy does not block the inhibition of mammary carcinogenesis by dietary energy restriction in rats. *J Nutr*, 134, 1152-1156.
- (2004). Association between the T27C polymorphism in the cytochrome P450 c17 alpha (CYP17) gene and risk factors for breast cancer. *Breast Cancer Res Tr*, 88, 217-230.
- (2004). DNA oxidation products, antioxidants status, and cancer prevention. *J Nutr*, 134, 3186s-3187s.
- (2004). Effect of dietary energy restriction on vascular density during mammary carcinogenesis. *Cancer Res*, 64, 5643-5650.
- (2004). Effect of phytochemical intake on circulating levels of C-reactive protein. *Cancer Epidem Biomar*, 13, 1891s-1891s.
- (2004). Identification of the apoptosis activation cascade induced in mammary carcinomas by energy restriction. *Cancer Res*, 64, 1541-1545.
- (2004). Increased urinary 8-isoprostaglandin F-2 alpha is associated with lower plasma selenium levels and lower vegetable and fruit intake in an asbestos-exposed cohort at risk for lung cancer. *Chest*, 125, 83s-83s.
- (2004). Targeting angiogenesis for mammary cancer prevention. *Cancer Epidem Biomar*, 13, 1173-+.
- (2004). Using nuclear morphometry to discriminate the tumorigenic potential of cells. *Cancer Epidem Biomar*, 13, 976-988.
- (2004). Weight control and breast cancer prevention. *J Nutr*, 134, 3407s-3411s.
- (2003). Dietary energy restriction in breast cancer prevention. *J Mammary Gland Biol*, 8, 133-142.
- (2003). Effect of energy restriction on cell cycle machinery in 1-methyl-1-nitrosourea-induced mammary carcinomas in rats. *Cancer Res*, 63, 1228-1234.
- (2003). Mechanisms by which energy restriction inhibits rat mammary carcinogenesis. *Carcinogenesis*, 24, 1225-1231.

- (2003). Val158Met polymorphism in catechol-O-methyltransferase gene associated with risk factors for breast cancer. *Cancer Epidem Biomar*, 12, 838-847.
- (2002). An experimental paradigm for studying the cellular and molecular mechanisms of cancer inhibition by energy restriction. *Mol Carcinogen*, 35, 51-56.
- (2002). Mechanisms of cell cycle arrest by methylseleninic acid. *Cancer Res*, 62, 156-164.
- (2002). Mechanisms of energy restriction. *Cancer Res*, 62, 5280-5287.
- (2002). Protection against cancer by energy restriction. *J Nutr*, 132, 1047-1049.
- (2002). Semi-automated method of quantifying vasculature of 1-methyl-1-nitrosourea-induced rat mammary carcinomas using immunohistochemical detection. *J Histochem Cytochem*, 50, 213-222.
- (2002). Val108Met polymorphism in catechol-O-methyltransferase (COMT) gene associated with risk factors for breast cancer. *Cancer Epidem Biomar*, 11, 1226s-1226s.
- (2002). Vascular density profile of rat mammary carcinomas induced by 1-methyl-1-nitrosourea. *Carcinogenesis*, 23, 847-854.
- (2001). Allium chemistry. *J Agr Food Chem*, 49, 458-470.
- (2001). Control of rat mammary epithelium proliferation by conjugated linoleic acid. *Nutr Cancer*, 39, 233-238.
- (2001). Effect of the aromatase inhibitor vorozole on estrogen and progesterone receptor content of rat mammary carcinomas induced by 1-methyl-1-nitrosourea. *Breast Cancer Res Tr*, 70, 171-183.
- (2001). Molecular mechanisms associated with Se-allylselenocysteine regulation of cell proliferation and apoptosis. *Cancer Lett*, 162, 167-173.
- (2001). Nutritional modulation of spontaneous mammary tumorigenesis in p53-deficient MMTV-Wnt-1 transgenic mice. *Faseb J*, 15, A401-A401.
- (2001). Selenium in cancer prevention. *Cancer Invest*, 19, 540-553.
- (2000). A comparison of the histopathology of premalignant and malignant mammary gland lesions induced in sexually immature rats with those occurring in the human. *Lab Invest*, 80, 221-231.
- (2000). Activity of se-allylselenocysteine in the presence of methionine gamma-lyase on cell growth, DNA integrity, apoptosis, and cell-cycle regulatory molecules. *Mol Carcinogen*, 29, 191-197.
- (2000). Classification of premalignant and malignant lesions developing in the rat mammary gland after injection of sexually immature rats with 1-methyl-1-nitrosourea. *J Mammary Gland Biol*, 5, 201-210.
- (2000). Effect of fixation and epitope retrieval on BrdU indices in mammary carcinomas. *J Histochem Cytochem*, 48, 355-362.
- (2000). In vitro and in vivo studies of methylseleninic acid. *Cancer Res*, 60, 2882-2886.
- (2000). In vitro effects of Se-allylselenocysteine and Se-propylselenocysteine on cell growth, DNA integrity and apoptosis. *Biochem Pharmacol*, 60, 1467-1473.
- (2000). Plasma xanthophyll carotenoids correlate inversely with indices of oxidative DNA damage and lipid

- peroxidation. *Cancer Epidem Biomar*, 9, 421-425.
- (2000). Rat models of premalignant breast disease. *J Mammary Gland Biol*, 5, 409-420.
- (2000). Selenium modulation of cell proliferation and cell cycle biomarkers in normal and premalignant cells of the rat mammary gland. *Cancer Epidem Biomar*, 9, 49-54.
- (1999). Chemoprevention of mammary cancer with Se-allylselenocysteine and other selenoamino acids in the rat. *Anticancer Res*, 19, 2875-2880.
- (1999). Conjugated linoleic acid-enriched butter fat alters mammary gland morphogenesis and reduces cancer risk in rats. *J Nutr*, 129, 2135-2142.
- (1999). Effect of energy restriction on the expression of cyclin D1 and p27 during premalignant and malignant stages of chemically induced mammary carcinogenesis. *Mol Carcinogen*, 24, 241-245.
- (1999). Effect of energy restriction on tissue size regulation during chemically induced mammary carcinogenesis. *Carcinogenesis*, 20, 1721-1726.
- (1999). Effect of increased vegetable and fruit consumption on markers of oxidative cellular damage. *Carcinogenesis*, 20, 2261-2266.
- (1999). Effects of methylselenocysteine on PKC activity, cdk2 phosphorylation and gadd gene expression in synchronized mouse mammary epithelial tumor cells. *Cancer Lett*, 146, 135-145.
- (1999). Increased fruit and vegetable consumption reduces indices of oxidative DNA damage in lymphocytes and urine. *Roy Soc Ch*, 20, 423-432.
- (1999). Mechanisms by which energy restriction inhibits carcinogenesis. *Adv Exp Med Biol*, 470, 77-84.
- (1998). Cytostasis and cancer chemoprevention. *Anticancer Res*, 18, 12-Sep.
- (1998). Effect of corticosterone administration on mammary gland development and p27 expression and their relationship to the effects of energy restriction on mammary carcinogenesis. *Carcinogenesis*, 19, 2101-2106.
- (1998). Microsatellite instability in an animal model of mammary carcinogenesis. *Int J Oncol*, 13, 23-28.
- (1998). Ovarian hormone dependence of pre-malignant and malignant mammary gland lesions induced in pre-pubertal rats by 1-methyl-1-nitrosourea. *Carcinogenesis*, 19, 383-386.
- (1998). Pathogenetic characterization of 1-methyl-1-nitrosourea-induced mammary carcinomas in the rat. *Carcinogenesis*, 19, 223-227.
- (1998). Temporal sequence of mammary intraductal proliferations, ductal carcinomas in situ and adenocarcinomas induced by 1-methyl-1-nitrosourea in rats. *Carcinogenesis*, 19, 2181-2185.
- (1998). X-radiation induces 8-hydroxy-2'-deoxyguanosine formation in vivo in rat mammary gland DNA. *Carcinogenesis*, 19, 1319-1321.
- (1997). Cyclic food restriction, insulin and mammary cell proliferation in the rat. *Carcinogenesis*, 18, 2271-2276.
- (1997). Differential induction of growth arrest inducible genes by selenium compounds. *Biochem Pharmacol*, 53, 921-926.
- (1997). Effect of caloric restriction on pre-malignant and malignant stages of mammary carcinogenesis.

Carcinogenesis, 18, 1007-1012.

- (1997). Effects of physical activity and exercise on experimentally-induced mammary carcinogenesis. *Breast Cancer Res Tr*, 46, 135-141.
- (1997). Energy availability and mammary carcinogenesis. *Carcinogenesis*, 18, 1183-1188.
- (1997). Gene expression changes associated with chemically induced rat mammary carcinogenesis. *Mol Carcinogen*, 20, 204-215.
- (1997). Retention of conjugated linoleic acid in the mammary gland is associated with tumor inhibition during the post-initiation phase of carcinogenesis. *Carcinogenesis*, 18, 755-759.
- (1997). Sulfone metabolite of sulindac inhibits mammary carcinogenesis. *Cancer Res*, 57, 267-271.
- (1997). Telomerase activity in the normal and neoplastic rat mammary gland. *Cancer Res*, 57, 5605-5609.
- (1997). Triphenylselenonium and diphenylselenide in cancer chemoprevention. *Anticancer Res*, 17, 3195-3199.
- (1996). A filter elution assay for the simultaneous detection of DNA double and single strand breaks. *Anal Biochem*, 235, 227-233.
- (1996). Cyclic food restriction alters substrate utilization and abolishes protection from mammary carcinogenesis in female rats. *J Nutr*, 126, 1398-1405.
- (1996). Effect of an aqueous extract of selenium-enriched garlic on in vitro markers and in vivo efficacy in cancer prevention. *Carcinogenesis*, 17, 1903-1907.
- (1996). Effects of weight cycling on mammary epithelial cell proliferation in young female rats. *Faseb J*, 10, 2831-2831.
- (1996). Selenium-enriched garlic inhibits the early stage but not the late stage of mammary carcinogenesis. *Carcinogenesis*, 17, 1979-1982.
- (1996). The efficacy of conjugated linoleic acid in mammary cancer prevention is independent of the level or type of fat in the diet. *Carcinogenesis*, 17, 1045-1050.
- (1995). Effect of Cyclic Dieting on Mitotic-Activity and Mammary Carcinogenesis. *Faseb J*, 9, A992-A992.
- (1995). Effect of High-Dose, Fractionated Local Irradiation on Mnu-Induced Carcinogenesis in the Rat Mammary-Gland. *Carcinogenesis*, 16, 649-653.
- (1995). Exercise Intensity-Dependent Inhibition of 1-Methyl-1-Nitrosourea Induced Mammary Carcinogenesis in Female F344 Rats. *Carcinogenesis*, 16, 1783-1786.
- (1995). Inhibition of Mammary Carcinogenesis by Treadmill Exercise. *J Natl Cancer I*, 87, 453-455.
- (1995). Inhibition of Mammary Carcinogenesis in Rats by Sulfone Metabolite of Sulindac. *J Natl Cancer I*, 87, 1259-1260.
- (1995). Rapid Induction of Mammary Intraductal Proliferations, Ductal Carcinoma in-Situ and Carcinomas by the Injection of Sexually Immature Female Rats with 1-Methyl-1-Nitrosourea. *Carcinogenesis*, 16, 2407-2411.
- (1995). Ras May Mediate Mammary-Cancer Promotion by High-Fat. *Nutr Cancer*, 23, 283-290.

- (1995). Treatment with Chemopreventive Agents, Difluoromethylornithine and Retinyl Acetate, Results in Altered Mammary Extracellular-Matrix. *Carcinogenesis*, 16, 1787-1794.
- (1994). Antioxidant Status and Dietary-Lipid Unsaturation Modulate Oxidative DNA-Damage. *Free Radical Bio Med*, 16, 111-115.
- (1994). Comparison of the Effects of an Organic and an Inorganic Form of Selenium on a Mammary-Carcinoma Cell-Line. *Carcinogenesis*, 15, 183-186.
- (1994). Conjugated Linoleic-Acid - a Powerful Anticarcinogen from Animal Fat Sources. *Cancer*, 74, 1050-1054.
- (1994). Conjugated Linoleic-Acid Suppresses Mammary Carcinogenesis and Proliferative Activity of the Mammary-Gland in the Rat. *Cancer Res*, 54, 1212-1215.
- (1994). Effect of Excess Dietary Iron on the Promotion Stage of 1-Methyl-1-Nitrosourea-Induced Mammary Carcinogenesis - Pathogenetic Characteristics and Distribution of Iron. *Carcinogenesis*, 15, 1567-1570.
- (1994). Effect of Exercise Intensity and Duration on the Induction of Mammary Carcinogenesis. *Cancer Res*, 54, S1960-S1963.
- (1994). Promotional Effects of Yo-Yo Dieting on Mammary Carcinogenesis. *Faseb J*, 8, A425-A425.
- (1994). Selenite Induction of DNA Strand Breaks and Apoptosis in Mouse Leukemic L1210 Cells. *Biochem Pharmacol*, 47, 1531-1535.
- (1993). Alkaline Elution Analysis of DNA Fragmentation Induced during Apoptosis. *Anal Biochem*, 208, 393-396.
- (1993). Diet, Nutrition, and Cancer - Development of Hypotheses and Their Evaluation in Animal Studies. *Cancer Res*, 53, S2442-S2445.
- (1993). Effect of Conjoint Administration of Tamoxifen and High-Dose Radiation on the Development of Mammary-Carcinoma. *Int J Radiat Oncol*, 26, 89-94.
- (1993). Spontaneous Nucleosomal DNA Fragmentation in Murine Leukemic L1210 Cells. *Biochem Bioph Res Co*, 194, 836-841.
- (1992). Apoptosis in the Genesis and Prevention of Cancer. *Cancer Epidem Biomar*, 1, 597-602.
- (1992). Effect of Carcinogen Dose and Age at Administration on Induction of Mammary Carcinogenesis by 1-Methyl-1-Nitrosourea. *Carcinogenesis*, 13, 1535-1539.
- (1992). Effect of Exercise on the Initiation Phase of Mammary Carcinogenesis Induced by 1-Methyl-1-Nitrosourea (Mnu) or 7,12-Dimethylbenz(a)Anthracene (Dmba). *Faseb J*, 6, A1494-A1494.
- (1992). Effect of Intensity of Exercise on the Promotion Phase of Mammary Carcinogenesis Induced by 1-Methyl-1-Nitrosourea (Mnu). *Faseb J*, 6, A1394-A1394.
- (1992). Effect of Methylated Forms of Selenium on Cell Viability and the Induction of DNA Strand Breakage. *Biochem Pharmacol*, 43, 1137-1141.
- (1992). Effect of Treadmill Exercise Intensity on Hepatic Glutathione Content and Its Relevance to Mammary Tumorigenesis. *J Sport Med Phys Fit*, 32, 59-63.
- (1992). Evidence for Altered Stromal Epithelial Interactions in Mammary-Gland of Rats Treated with

Chemopreventative Agents Difluoromethylornithine (Dfmo) and Retinyl Acetate (Ra). *Mol Biol Cell*, 3, A129-A129.

- (1991). Analysis of Chemoprevention Experiments - the Indefinite Censoring Model. *Math Comput Model*, 15, 65-75.
- (1991). Changes in Ornithine Decarboxylase Activity and Polyamine Levels in Response to 8 Different Forms of Selenium. *J Inorg Biochem*, 44, 283-292.
- (1991). Dose-Responsive Induction of Mammary-Gland Carcinomas by the Intraperitoneal Injection of 1-Methyl-1-Nitrosourea. *Cancer Res*, 51, 3411-3415.
- (1991). Effect of Deficiencies of Selenium and Vitamin-E Alone or in Combination on the Induction of Mammary Carcinogenesis by 1-Methyl-1-Nitrosourea. *Carcinogenesis*, 12, 2175-2179.
- (1991). Effect of Dietary Iron-Deficiency or Excess on the Induction of Mammary Carcinogenesis by 1-Methyl-1-Nitrosourea. *Carcinogenesis*, 12, 111-114.
- (1991). Temporal Changes in Tissue Glutathione in Response to Chemical Form, Dose, and Duration of Selenium Treatment - Relevance to Cancer Chemoprevention by Selenium. *Biol Trace Elem Res*, 30, 163-173.
- (1990). Differences in Selenium Concentrations in Target Tissues and Their Relevance to Its Anticarcinogenicity. *Nutr Res*, 10, 81-89.
- (1989). New Approaches to Cancer Chemoprevention with Difluoromethylornithine and Selenite. *J Natl Cancer I*, 81, 839-843.

Non-Refereed Journal Articles

- Kleintop, A. M., Dimas, E. A., Thompson, H. J., Brick, M. A., Myers, J. R. (2015). Total Phenolic Content and Associated Phenotypic Traits in a Diverse Collection of Snap Bean Cultivars. . *J. AMER. SOC. HORT. SCI.* 141(1):1-9. 2015(141(1)), 1-9.
- Brauer, H. A., D'Arcy, M., Libby, T. E., Thompson, H. J., Yasui, Y. Y., Hamajima, N., Li, C. I., Troester, M. A., Lampe, P. D. (2014). Dermcidin expression is associated with disease progression and survival among breast cancer patients. *Breast cancer research and treatment*, 144(2), 299-306.
- Matthews, S. B., Zhu, Z., Jiang, W., McGinley, J. N., Neil, E. S., Thompson, H. J. (2014). Excess weight gain accelerates 1-methyl-1-nitrosourea-induced mammary carcinogenesis in a rat model of premenopausal breast cancer. *Cancer prevention research (Philadelphia, Pa.)*, 7(3), 310-8.
- Kleintop, A. E., Echeverria, D., Brick, L. A., Thompson, H. J., Brick, M. A. (2013). Adaptation of the AOAC 2011.25 integrated total dietary fiber assay to determine the dietary fiber and oligosaccharide content of dry edible beans. *Journal of agricultural and food chemistry*, 61(40), 9719-26.
- Skibinski, C. G., Thompson, H. J., Das, A., Manni, A., Bortner, J. D., Stanley, A., Stanley, B. A., El-Bayoumy, K. (2013). Proteomic changes induced by effective chemopreventive ratios of n-3:n-6 fatty acids and tamoxifen against MNU-induced mammary cancer in the rat. *Cancer prevention research (Philadelphia, Pa.)*, 6(9), 979-88.
- Zhu, Z., Jiang, W., McGinley, J. N., Thompson, H. J. (2013). Defining the role of histone deacetylases in the inhibition of mammary carcinogenesis by dietary energy restriction (DER): effects of suberoylanilide hydroxamic acid (SAHA) and DER in a rat model. *Cancer prevention research (Philadelphia, Pa.)*, 6(4), 290-8.

Jiang, W., Zhu, Z., Thompson, H. J. (2013). Effects of limiting energy availability via diet and physical activity on mammalian target of rapamycin-related signaling in rat mammary carcinomas. *Carcinogenesis*, 34(2), 378-87.

Jiang, W., Zhu, Z., Thompson, H. J. (2013). Effects of limiting energy availability via diet and physical activity on mammalian target of rapamycin-related signaling in rat mammary carcinomas. *Carcinogenesis*, 34(2), 378-87.

Sun, K., Wu, S., Wang, Y., Wan, X., Thompson, H. J., Zhang, J. (2013). High-dose sodium selenite toxicity cannot be prevented by the co-administration of pharmacological levels of epigallocatechin-3-gallate which in turn aggravates the toxicity. *Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association*, 52, 36-41.

Playdon, M. C., Matthews, S. B., Thompson, H. J. (2013). Weight change patterns and breast cancer risk: a brief review and analysis. *Critical reviews in eukaryotic gene expression*, 23(2), 159-69.

(2012). Effect of dietary patterns differing in carbohydrate and fat content on blood lipid and glucose profiles based on weight-loss success of breast-cancer survivors. *Breast Cancer Res 2012*; *PMCID:PMC3496116*, Available from *PM:22225711*, 14(1), R1.

Thompson, M. D., Thompson, H. J. (2012). A systems pharmacokinetic and pharmacodynamic approach to identify opportunities and pitfalls in energy stress-mediated chemoprevention: the use of metformin and other biguanides. *Current drug targets*, 13(14), 1876-84.

Matthews, S. B., Santra, M., Mensack, M. M., Wolfe, P., Byrne, P. F., Thompson, H. J. (2012). Metabolite profiling of a diverse collection of wheat lines using ultraperformance liquid chromatography coupled with time-of-flight mass spectrometry. *PloS one*, 7(8), e44179.

Non-Refereed Chapters in Books

Brick, M. A., Dimaa, E., Thompson, H. J., Adrienne, K. (2014). Dietary fiber content in dry edible bean cultivars. *no. NA: Annual Report Bean Improvement Coop.*

Book Review

(2010). *Energetics and Cancer: Exploring a Road Less Traveled* (pp. 55-67). Physical Activity, Dietary Calorie Restriction, and Cancer; Springer Science + Business Media, LLC; McTiernan, A (ed).

Manuscript

Kleintop, A., Echeverria Moreno, D., Brick, L. A., Thompson, H. J., Brick, M. A. (2013). *Adaptation of the AOAC 2011.25 Integrated Total Dietary Fiber Assay to Determine the Dietary Fiber and Oligosaccharide Content of Dry Edible Bean.* J. Food Ag Chemistry.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

November 2015, "Genomic regions and candidate genes associated with dietary fiber and oligosaccharide content in dry edible bean", Annual Meeting Crop Science Society of America, convention center.

November 19, 2015, "Building a Better Bean", Bush Brothers Technology Summit, Bush Brothers, Knoxville, TN.

November 16, 2015, "Energy Hormesis and Your Health", Stars in Nutrition Lecture Series, National Cancer Institute, NIH, (Presenter) Thompson, H. J.

October 18, 2015, "Agriculture as an Instrument of Public Health: The Potential of Dry Beans", Annual Meeting Science Cafe, American Association of Cereal Chemists International, (Presenter) Thompson, H. J.

October 18, 2015, "Agriculture as an Instrument of Public Health: The Potential of Dry Beans", Annual Meeting Science Cafe, American Association of Cereal Chemists International, (Presenter) Thompson, H. J.

October 8, 2015, "Physical activity and breast cancer: impact of inherent versus induced aerobic capacity", Physical Activity and Cancer: The Evidence Step by Step, University of Illinois, Chicago, (Presenter) Thompson, H. J.

September 13, 2015, "DISCOVERING THE GENETIC ARCHITECTURE OF DIETARY FIBER AND OLIGOSACCHARIDE CONTENT IN COMMON BEAN (PHASEOLUS VULGARIS)", 150 th Anniversary of Mendel, Mendel Museum.

June 2015, "Non-targeted metabolomics reveals phytochemical diversity in onion: implications for human health and disease prevention", American Society of Mass Spectrometry (ASMS), American Society of Mass Spectrometry, (Presenter) Chaparro, J. M., peer-reviewed/refereed.

June 26, 2015, "Lessons From the International Year of the Pulse: going against the grain, NOT", Whole Grains Summit, Oregon State University, (Presenter) Thompson, H. J.

June 15, 2015, "Breeding Dry Edible Beans for Improved Human Health", Bush Breeders Summit, Bush Brothers Beans, Bush headquarters.

December 2014, "Tea for Health", Coca-Cola Corp, Atlanta, Georgia.

November 2014, "The Pairings Diet", Public Private Partnerships, World Grain Foundation, Washington, DC.

November 2014, "Speciality Crops Strategy Round Table", Round Table, USDA, Washington, DC.

October 2014, "Energetics and Cancer :from bench to bedside", Grand Rounds-Prevention, UCHSC, Denver, CO.

September 10, 2014, "Energetics and Cancer", Distinguished Seminar Series, University of Pittsburg Comprehensive Cancer Center, Pittsburg PA.

August 17, 2014, "Crop Improvement for Public Health", International Fitopathology Conference, Brazilian Pathology Society, Londrina Brazil.

July 9, 2014, "Dietary fiber content in dry edible bean cultivars", Western Society of Crop Science, Bozeman MT, peer-reviewed/refereed.

June 2014, "Food Crops and Your Health", Grand Rounds, Robert Woods Johnson Hospital, Medford, NJ.

May 2014, "The Pulse-Health Initiative", PHI Round Table, American Pulse Association, Salt Lake City, UT.

April 2014, "Taking Charge of Your Health", Cancer Survivors Support Group, Porter Adventist Hospital, Denver, CO.

April 2014, "Fiber content of pulse crops", Experimental Biology Annual Meeting, Nutritional Sciences, San Diego, CA.

March 2014, "Dietary fiber and human health", Vahouny Fiber Conference, Experimental Biology, Washington DC.

February 2014, "Agriculture as an instrument of public health", Food 3000, Porter Novelli, Amsterdam, The

Netherlands.

January 2014, "Building a case for the health benefits of beans", Annual Nebraska Dry Bean Board-Bean Day, Nebraska Dry Bean Board, Scotts Bluff, NB.

January 2014, "Energy balance and your health", Grand Rounds, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI.

2012, "•April 1-5, 2012 American Association for Cancer Research, Chicago Illinois. Invited Speaker. Forum: Nutrition and Cancer: How Much Does It Really Matter?".

2012, "•August 3, 2012 PGRSA. Annual Meeting, Invited Speaker. Plant Growth Regulation Society of America. Breeding For Human Health Traits, an Emerging Facet in Contemporary Crop Improvement."

2012, "•December 14-15, 2012, University of Vermont, Cancer Center, Annual Cancer Center Symposium, Invited speaker. Energetics and Cancer: the Path to Prevention".

2012, "•January 5-7, 2012 University of Pennsylvania, Philadelphia, PA. Invited speaker. Symposium on Transdisciplinary Research on Energetics and Cancer. Physical Activity in Cancer Prevention."

2012, "•June 15-21, 2012. Sao Paulo, Brazil. Invited as Member of National Cancer Institute Delegation to Present at two International Conferences on Cancer Prevention Research. Three lectures were presented: 1) Dry Beans in Cancer Prevention, 2) Lifestyles for the Cancer Survivor, and 3) Physical Activity and Cancer".

2012, "•May 15-19, 2012 Auckland, New Zealand. Invited speaker: Chronic and Infectious Disease Symposium. Improving Crops for Activity Against Chronic Diseases".

2011, "•April 15. Colorado State University. Frontier's Society Meeting. "Crops For Health: A Vision for Agriculture as An Instrument of Public Health Can It Save Your Life?"".

2011, "•April 24-May 3, 2011. Anhe
Agricultural University, Heifei, China,
PCR. Presented a series of four
lectures on Biomedical Agriculture."

2011, "•December 4-6. Michigan State
University. Participant in the
consultancy for USAID Pulse Health
Initiative".

2011, "•October 3-4. Washington State
University. Keynote address at the
Global to Local Conference. "Crops For
Health: A Vision for Agriculture as An
Instrument of Public Health".

2011, "•September 23-24, 2011.
Institut Cochin, Paris,
France. "Physical Activity in the
Prevention and Control of Cancer".
This was part of the annual Journee-
Dreyfus International Symposium."

2010, ""April 17-21: Annual Meeting,
American Association for Cancer
Research, Washington, DC. Symposium
Speaker: Energetics and Cancer:
Developing New Opportunities in Cancer
Control Research .".

2010, ""February 11, 2010:
Legislative Forum in Denver, Colorado:
Presented and staffed Crops for
Health poster display in the state
Capital Building."

2010, ""February 18, 2010: Governor s
Forum in Denver, Colorado: Improving
Colorado Crops for Biomedical Traits .".

2010, ""January 15, 2010: University
of Colorado Cancer Center, Denver, CO.
Cancer Center Retreat: Invited
Presentation: Energetics and Cancer: A
Road Less Traveled in Cancer
Prevention .".

2010, ""January 6, 2010: Annual Ag
Forum at CSU. Crop Improvement for
Human Health Traits , Agricultural
Experiment Station, Fort Collins, CO".

2010, ""June 15-21, 2010. Sao Paulo,
Brazil. Invited as Member of National

Cancer Institute Delegation to Present at two International Conferences on Cancer Prevention Research. Three lectures were presented: 1) Nutritional Interventions in the Cancer Prevention, 2) Lifestyles for the Cancer Survivor, and 3) Let us Exercise!"

2010, ""March 21-24, 2010: American Society of Preventive Oncology Annual Meeting, Washington, DC. The Role of Physical Activity in Cancer Prevention .".

2010, ""September 21, 2010. American Association of Industrial Crops, Annual Meeting, Plenary Session, Denver, CO. Biomedical Agriculture: Harnessing the Power of Agriculture for Biomedical Research .".

2010, ""April 28, 2010. SoGES Sponsored Panel, Avogadro s, Fort Collins, CO. Global Food Security .".

2010, ""August 2-5,2010. American Society of Horticultural Science, Annual Meeting, Palm Desert, CA. Presented Tex Frazier Lecture at Initial Plenary Session. Contemporary Approaches to Crop Improvement for Biomedical Traits .".

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2015	Spring	BMS498 - Research	3	4
2015	Spring	HORT698 - Research	18	13
2013	Fall	CM799 - Dissertation	18	15
2012	Fall	HORT799 - Dissertation	18	3
2012	Fall	HORT795 - Independent Study	18	1
2011	Fall	CM795 - Independent Study	18	28
2011	Fall	HORT581A2 - Phytochemicals to Improve Human Health	3	5
2010	Fall	CM799 - Dissertation	18	15
2010	Fall	ANEQ280A1 - Introduction to Laboratory Animal Science	3	13
2009	Spring	ERHS510 - Cancer Biology	3	8
2008	Fall	CM795 - Independent Study	18	20
2008	Spring	ERHS510 - Cancer Biology	3	8
2007	Fall	HORT580 - Phytochemicals to Improve Human Health	3	2
2007	Fall	HORT698 - Research	18	7

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2016	Fall	AGRI580 - Capacity Building	1	

2015	Fall	AGRI580 - Capacity Building	1	
2015	Fall	HLA Graduate Seminar Series	1	Face to Face
2015	Fall	FSHN750 - Nutrition Pathophysiology	1	Face to Face
2015	Fall	Texas A&M Hort 650	1	Distance
2014	Spring	AGRI580 - Capacity Building	1	

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Anhui Initiative Group

Monthly meetings. Fort Collins. Percent Responsible: 0%. Full Year 2015.

Field Day

What is the future of beans in health and wellness? Adult, Scotts Bluff, Nebraska. Number of times program was made: 1. Total number of participants: 200. Percent Responsible: 0.1%. 1st Quarter 2015.

COMMITTEES

Tea for Health Center, (2012 - 2015).

Foreign Expert, (June 28, 2015 - July 28, 2015).

National Western Center, (2013 - 2014).

Tea for Health Institute, (October 2014 - November 2014).

(2012).

(2011).

(2011).

(2011).

(2011).

Colorado Health Foundation, (January 1, 2014 - Present).

Food for Health Initiative, (2012 - 2015).

CIAT Partners, (June 8, 2015 - June 9, 2015).

Host Dr. Mark Manary along with Mark Brick, (April 18, 2015 - April 19, 2015).

(2012).

(2011).

(2011).

(2011).

(2011).

Coca-Cola, (July 2015 - Present).

Mars Foods, (May 2015 - Present).

(2012).

(2011).

(2011).

(2011).

(2011).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

American Association for Cancer Research. (1975 - 2012).

Experimental Biology-Nutritional Sciences. (1975 - 2012).

CSA News. (April 2015).

International Food Trader. (March 2015).

Member, CSSA, Madison, WI. (July 1, 2015 - Present).

Member, AACR Annual Meeting Scientific Program Planning Committee, Philadelphia, PA. (April 2015 - Present).

Reviewer, Ad Hoc Reviewer, Plos One. (January 2015 - Present).

Cancer Prevention Research. (2012 - Present).

Cancer Research. (2012 - Present).

Carcinogenesis. (2012 - Present).

Member, CDP Study Section NIH. (2012 - Present).

Many Other Journals. (2012 - Present).

Nutrition and Cancer. (2012 - Present).

Reviewer, Ad Hoc Reviewer, Swiss Government. (2012 - Present).

Cancer Prevention Research. (2011 - Present).

Cancer Research. (2011 - Present).

Carcinogenesis. (2011 - Present).

Cell Metabolism. (2011 - Present).

J. Ag Food Chem. (2011 - Present).

Reviewer, Ad Hoc Reviewer, National Grant Review Panel Hong Kong. (2011 - Present).

Nature. (2011 - Present).

Nutrition and Cancer. (2011 - Present).

Member, •National Institutes of Health, Chemo/Dietary Prevention Study Section, (2011 - Present).

Editorial Review Board Member, Cancer Prevention Research. (January 2015 - December 2018).

Committee Member, Univeristy of Pennsylvania, Philadelphia. (May 2012 - 2015).

Reviewer, Ad Hoc Reviewer, Division of Research Grants. (September 29, 2015).

Reviewer, Ad Hoc Reviewer, Division of Research Grants. (September 28, 2015).

Reviewer, Grant Panel, NIH, DC. (2011 - 2014).

Reviewer, Grant Panel, Department of Defense, DC. (July 2014).

Member, Nutrition and Cancer. (2009 - 2012).

Member, American Association for Cancer Research. (1975 - 2012).

Member, Experimental Biology-Nutritional Sciences. (1975 - 2012).
