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EDUCATION & TRAINING

Doctorate of Philosophy in Human Nutrition

The Ohio State University; Columbus, Ohio 06/2000
Major field: Human Nutrition with Specialized Areas in Biochemistry and Molecular Biology

Bachelor of Science in Nutrition Sciences

University of Guelph, Guelph, ON, Canada 06/1995

PROFESSIONAL EXPERIENCE

Endowed Director

Moore Family Center for Whole Grain Foods, Nutrition and Preventive Health 07/2012-

Full Professor

School of Biological & Population Health Sciences; Oregon State University 09/2013-

Principal Investigator

Linus Pauling Institute, Oregon State University 06/2005 -

Clinical Assistant Professor

Dept Medicine; Endocrinology & Clinical Nutrition; Oregon Health & Sciences 06/2004 -

Associate Professor

School of Biological & Population Health Sciences; Oregon State University 09/2008 - 2013

Assistant Professor

Nutrition and Exercise Sciences; Oregon State University 02/2003 - 08/2008

Affiliate Scientist

Linus Pauling Institute, Oregon State University 02/2003 - 05/2005

Postdoctoral Research Fellow

Children's Hospital Oakland Research Institute & UC Berkeley 07/2000 - 01/2003

Graduate Research & Teaching Associate

Department of Human Nutrition; The Ohio State University 03/1996 - 06/2000

AWARDS & HONORS

Young Investigator Award; The Oxygen Society (1996)

Sigma Xi Student Research Award (1997)

OARDC Graduate Research Award; Ohio Agriculture Research and Development Center (1997)

Graduate Research Forum, winner (oral presentation); The Ohio State University (1998)

Young Investigator Award; Oxygen Club of California (1998)

Society of Experimental Biology and Medicine Travel Award (2000)

Young Investigator Award- Outstanding Scientific Presentation; The Oxygen Society (2000)

Postdoctoral Fellow-Training Grant NIH 5 T32 ES07075 'Studies of Environmental Mutagens and Carcinogens' (2002)

Best Paper Award in EBM journal 2001- Society for Experimental Biology and Medicine (2002)

Junior Investigator Award- FASEB Summer Trace Element Conference (2004)

Junior Faculty Travel Award- American Urological Association (2005)
 Finalist-ILSI- Future Leader Award (2005)
 Sigma Xi Emerging Scholar Award (2007)
 Promising Scholar Faculty Excellence Award- Oregon State University (2010)
 Outstanding Researcher Award- Vitamins & Minerals Research Interest Section, ASN (2012)
 Faculty Excellence Award, College of Public Health & Human Sciences, OSU (2013)
 On Point Faculty of the Game - OSU Faculty award (2014)
 Editorial Board, Journal of Nutrition (2013-present)
 Editorial Board, Journal of Nutritional Biochemistry (2004-present)
 Editorial Board, Frontiers in Epigenomics (2010-present)

PROFESSIONAL AFFILIATIONS

American Society for Nutrition
 American Association for Cancer Research
 Society for Free Radical Biology and Medicine
 Phi Kappa Phi Society

Research Support: Current			
Sponsor	Project Title	Period	Total Award
National Cancer Institute (NCI/NIH)	P01-CA90890 (Dashwood, Project Director; Ho, Project Leader 1, co-investigator Project 2 and 3) (Ho, Project Leader 1) “Comparative mechanisms of chemoprevention”: Project 1: Chemoprevention of prostate cancer; HDAC inhibition and DNA methylation	04/01/10 - 03/31/17 (no cost extension)	\$8,160,297 (Total award; all projects & core) \$1,727,838 Direct costs (part of above costs)
National Institute of Environmental Health Sciences (NIEHS/NIH)	R21-ES023937 (Ho, PI, Tanguay, co-PI) Dietary and arsenic interactions in diabetes development	02/01/15 - 01/31/17	\$275,000 direct costs (2 yr)
National Institute of Environmental Health Sciences (NIEHS/NIH)	R01 ES021100-03S1 (Ho, VICTER site PI, Hudson, L, PI, UNM) Arsenic co-carcinogenesis with UVR: nitrosation and oxidation of target proteins - VICTER Supplement	06/01/15 - 05/31/17	\$149,758 directs costs 2 yrs)
OHSU Knight Cancer Institute	Healthy Behaviors and Skin Cancer Prevention in Youth: Enhancing the Summer Camp Experience to Promote Cancer Prevention. (Ho, PI and Swanger, K, community partner PI)	06/01/15 -5/31/17	\$49,917 1yr total costs

OSU/OHSU Cancer Prevention and Control Initiative	Chemoprevention of prostate cancer: LncRNA and sulforaphane	1/1/16/-12/31/16	\$50,000
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Research Support: Completed

USANA Health Sciences	(Ho, PI) Zinc biomarker discovery: a genomic and proteomic approach	07/01/02-06/30/14	\$68,118
Bayer HealthCare	(Ho and Freij, co-PIs) ZinCflammation: mechanisms linking zinc and vitamin C deficiency to inflammatory processes	03/01/12-06/30/14	\$46,000/yr
National Cancer Institute (NCI/NIH)	RO1 CA-122906 (Ho, PI) “Dietary HDAC inhibitors in prostate cancer prevention”	03/01/07-02/28/13	\$1,456,511 Direct costs
National Cancer Institute (NCI/NIH)	R21- CA132236 (Shannon, JS, PI; Ho, site PI) “Sulforaphane: A Dietary HDAC Inhibitor and Prevention of DCIS Progression”	01/15/09-12/31/12	\$72,334 subcontract cost
National Cancer Institute (NCI/NIH)	RO1 CA-122906-S1 (diversity-re-entry supplement) “Dietary HDAC inhibitors in prostate cancer prevention”	06/29/09-5/31/11	\$ 210,815 direct
National Cancer Institute (NCI/NIH)	RO1 CA-122906-S2 (ARRA admin supplement) “Dietary HDAC inhibitors in prostate cancer prevention”	9/10/09-12/31/11	\$201,666 direct
National Cancer Institute (NCI/NIH)	R01 CA107693 (Bray-PI, Ho-co-PI) “Diet, Endocrine-Immune Interactions & Prostate Cancer”	06/01/04-05/31/09	\$1,035,815 direct
National Center for Complementary & Alternative Medicine (NCCAM/NIH)	P01 AT002034 (Freij, PD; Project 3 leader: Beckman; Ho, Co-I project 3) NIH/NCCAM -CER on CAM Antioxidant Therapies (CERCAT)	9/26/03 - 5/31/08	\$851,178 direct
United States Department of Agriculture (USDA-NRI)	USDA-NRI #2004-01859 (Ho- PI) “Zinc, gene expression and DNA damage”	06/01/05-5/31/08	\$213,708

Projects Submitted, Pending

Sponsor	Project Title	Projected Period of Support	Total Request
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National Cancer Institute (NCI/NIH)	Molecular Profiles and Biomarkers of Cruciferous Vegetables Intake	06/01/17-05/31/21 Submitted 5/25/16	\$375,00 direct costs / year
USDA-AFRI	Nutrient-microbial interactions in age-related inflammation	01/01/17-12/31/19 Submitted 07/15/16	\$550,000 direct costs
National Cancer Institute (NCI/NIH)	P01-CA90890 (Dashwood, Project Director; Ho, Co -Project Director; Project 1 leader, co-investigator Project 2 and 3)	Not funded-resubmission planned 2017	

OTHER COMPLETED FUNDED PROJECTS

Division of Health Sciences interdisciplinary pilot research program 06/01/10- 05/31/11 (Patrick Chappell and Emily Ho, co-PI) "Clock genes and prostate cancer" \$25,000

AES Strategic Equipment funds -\$99,720

"Nutrient-Gene Interaction equipment request" – qPcR and Pixus imager

Linus Pauling Institute Pilot Grant - \$20 000 (Ho- PI) (5% effort)

"Zinc in age-related macular degeneration" (04/01/05-03/31/06)

The goal of this study is to evaluate the effects of zinc status on UV-induced macular degeneration model in chicks.

Northwest Health Foundation - \$ 3, 969 (Ho- PI) (5% effort)

"Serum carotenoids in insitu and invasive cervical cancer" (06/06/05-05/31/06)

The goal of this study is to evaluate serum carotenoids in existing case control study for cervical cancer.

OSU General Research Fund _\$10 000 (Draheim-PI, Ho- Co-PI)

Markers of Inflammation and Vascular Function in Adults with Down syndrome

(01/01/06-12/31/06)

The goal of this study is to evaluate inflammatory markers in Down's syndrome patients.

Medical Research Foundation (OHSU)- \$30 000 (Ho-PI) 5% effort (06/01/06-5/31/07)

"Dietary inhibitors of histone deacetylase in prostate cancer prevention"

The goal of this study is to evaluate effects of isothiocyanates on acetylation state and depression of genes involved in apoptosis and cell proliferation in prostate cancer prevention.

Northwest Health Foundation- \$25 000/ year (01/04-12/31/05) (Ho-PI) (5% effort)

"Function of zinc in prostate and prostate cancer development"

The goal of this study is evaluate the role of zinc in prostate health in a cell culture model for prostate cancer.

Linus Pauling Institute Pilot Grant program (Ho-PI) –10% effort

LPI- \$20 000 (04/03-04/04)

"The role of zinc status in DNA integrity and prostate cancer"

The goal of this study is to evaluate the effects of zinc status on DNA damage and repair in prostate epithelial cells

(2004) OSU Research-General Research Fund- \$10 000

(2004) College of Health & Human Sciences Pilot award- \$4 925

(2003) OSU Research –RERF award- \$35 000

Peer-Reviewed Publications

1. **Ho, E.**, Chen, G., and Bray, T.M. (1999) Supplementation of N-acetylcysteine inhibits NF κ B activation and protects against alloxan-induced diabetes in CD-1 mice. *FASEB J.* 13:1845-1854.
2. **Ho, E.**, Chen, G., and Bray, T.M. (1999) alpha-phenyl-t-butyl-nitrone (PBN) inhibits NF κ B activation offering protection against chemically-induced diabetes. *Free Rad. Biol. Med.*, 28:604-14.
3. **Ho, E.** and Bray, T.M. (1999) Antioxidant defense, NF κ B and diabetogenesis. *Proc. Soc. Exp. Biol. Med.* 222:205-213.
4. Bray, T.M., and **Ho, E.** (2000). Putative role of NF κ B in type 1 diabetes and the preventative strategies with antioxidants. In: *Free Radicals in Chemistry, Biology and Medicine*, pp. 483 - 494. Eds Yoshikawa, T., Toyokuni, S., Yamamoto, Y., and Naito, Y. OICA International Ltd. London.
5. **Ho, E.**, Quan, N., Tsai, Y.H., Lai, W and Bray, T.M. (2001) Dietary zinc supplementation inhibits NFkappaB activation and protects against chemically induced diabetes in CD1 mice. *Exp Biol Med.* 226:103-11.
6. Quan, N., **Ho, E.**, Lai, W., Tsai, Y.H. and Bray, T.M. (2001) Administration of NF-kappaB decoy inhibits pancreatic activation of NF-kappaB and prevents diabetogenesis by alloxan in mice. *FASEB J.* 15(9):1616-8.
7. **Ho, E.** and Ames, BN. (2002) Low intracellular zinc induces oxidative DNA damage, disrupts p53, NFkappa B, and AP1 DNA binding, and affects DNA repair in a rat glioma cell line. *Proc Natl Acad Sci U S A.* 99(26):16770-5.
8. **Ho, E.**, Courtemanche, C. and Ames, BN. (2003) Zinc deficiency induces oxidative DNA damage and increases p53 expression in human lung fibroblasts. *J. Nutr.* 133: 2543-2548
9. **Ho, E.** (2004) Zinc deficiency, DNA damage and cancer risk. *J Nutr Biochem.* 15(10):572-8.
10. **Ho, E.**, Boileau, TMW and Bray, TM. (2004) Dietary influences on endocrine-inflammatory interactions in prostate cancer. *Arch. Biochem. Biophys.* 428: 109-117.
11. Ohtsu, H., **Ho, E.***, Huang, YS., Chung, LT and Bray, TM. (2005) Conjugated Linoleic Acid Modulates Proliferation and Activation of NF κ B and AP1 in Prostate Cancer Cells. *Nutrition Research* 25: 655-662. (* corresponding author).
12. Ermilova, IP, Ermilov VB, Fischer, KA, Levy, MA, **Ho, E**, Periera, C and Beckman, JS. (2005) Protection by dietary zinc in the ALS mutant G93A SOD Transgenic Mice. *Neuroscience Letters*, 379(1):42-6.
13. Offer, T*. **Ho, E***. Bruno, RS, Traber, MG, Kuypers, F. and Ames, BN. (2005) A Simple Assay for Frequency of Chromosome Breaks and Loss (Micronuclei) by Flow Cytometry of Human Reticulocytes. *FASEB J*, 19(3):485-7 (* equal contribution)
14. Myzak, MC, Orner, GA, **Ho, E** and Dashwood, RH. (2006) Sulforaphane suppresses tumorigenesis in *Apc^{min}* mice via inhibition of histone deacetylase. *FASEB J*, 20:406-409.
15. Dashwood, RH, Myzak, MC and **Ho, E.** (2006). Dietary HDAC inhibitors: time to rethink weak ligands in cancer chemoprevention? *Carcinogenesis.* 2006 Feb;27(2):344-9.

16. Myzak, MC, Hardin, K, Dashwood, RH and **Ho, E.** (2006) Sulforaphane Inhibits Histone Deacetylase Activity in BPH-1, LnCaP, and PC-3 Prostate Epithelial Cells. *Carcinogenesis*, 27(4):811-9
17. Myzak, MC, **Ho, E.**, Dashwood, RH. (2006) Dietary agents as histone deacetylase inhibitors. *Mol Carcinog.* 45:433-6.
18. Colgate, EC, Miranda, CL, Stevens, JF, Bray, TM and **Ho, E.** (2007) Xanthohumol, a prenylflavonoid derived from hops induces apoptosis and inhibits NF-kappaB activation in prostate epithelial cells. *Cancer Lett.* 246(1-2):201-9
19. Myzak, MC, Tong, P, Dashwood, WM, Dashwood, RH and **Ho, E.** (2007) Sulforaphane retards the growth of human PC-3 prostate cancer xenografts and inhibits HDAC activity in human subjects. *Exp Biol Med*, 232(2):227-34.
20. Bruno, RS, Song, Y, Leonard, SW, Mustacich, DJ, Taylor, AW, Traber, MG and **Ho, E.** (2007) Dietary zinc restriction in rats alters antioxidant status and increases plasma F(2) isoprostanes. *J Nutr Biochem*; 18(8):509-18.
21. Trevisiol, CH, Turner, RT, Pfaff, JE, Hunter, JC, Menagh, PJ, Hardin, K, **Ho, E.**, and Iwaniec, UT. (2007) Impaired Osteoinduction in a Rat Model for Chronic Alcohol Abuse. *Bone*, 41(2):175-80.
22. Dashwood, RH and **Ho, E.** (2007) Dietary Histone Deacetylase Inhibitors: From Cells to Mice to Man. *Seminars in Cancer Biology*, 17(5):363-9
23. Nasaretnam, K, Koon, TH, Selvaduray, KR, Bruno, RS and **Ho, E.** (2008) Modulation of Cell Growth and Apoptosis Response in Human Prostate Cancer Cells Supplemented with Tocotrienols, *Eur J. Lipid Sci.* 110: 23-31
24. Yan, M, Song Y, Wong, CP, Hardin, K, and **Ho, E.** (2008) Zinc deficiency alters DNA damage response genes in normal human prostate epithelial cells. *J. Nutr.* 138(4):667-73
25. Dashwood RH, **Ho E** (2008) Dietary agents as histone deacetylase inhibitors: sulforaphane and structurally-related isothiocyanates. *Nutr Rev*, 66 Suppl 1:S36-8 PMID: PMC2656672
26. Clarke, JD, Dashwood, RH and **Ho, E.** (2008) Multi-targeted prevention of cancer by sulforaphane. *Cancer Letters*, 269(2):291-304. PMID: PMC2579766
27. Wong, CP, Bray, TM and **Ho E** (2008) Induction of proinflammatory response in prostate cancer epithelial cells by activated macrophages. *Can Letters*, 276(1):38-46. PMID: PMC2684862
28. Nian, H., Delage, B., **Ho, E.** and Dashwood, RH. (2009) Modulation of histone deacetylase activity by dietary isothiocyanates and allyl sulfides: studies with sulforaphane and garlic organosulfur compounds. *Environ Mol Mutagen.* Apr;50(3):213-21 PMID: PMC2701665
29. Mustacich, D, Gohil, K., Bruno, RS, Yan, M., Leonard, SW, **Ho, E.**, Cross, CE, Traber, MG. (2009) Alpha-tocopherol modulates genes involved in hepatic xenobiotic pathways in mice. *J. Nutr Biochem*; 20: 469-476.
30. Wong, CP, Elias, V., Magnusson, K and **Ho, E.** Zinc supplementation increases zinc status and thymopoiesis in aged mice. *J Nutr.* 2009 Jul;139(7):1393-7. PMID: PMC2696991
31. Song, Y, Chung, CS, Bruno, RS, Traber, MG, Brown, KH, King, JC and **Ho, E.** Dietary zinc restriction and repletion affects DNA integrity in healthy adult male volunteers. *Am J Clin Nutr*, 2009 90:321-328. PMID: PMC2709309
32. Song, Y, Leonard, SW, Traber, MG and **Ho, E.** (2009) Zinc deficiency affects DNA damage, oxidative stress and antioxidant defenses in peripheral blood of rats. *J. Nutr.* 139:1626-31 PMID: PMC2720758

33. Iwaniec UT, Turner RT, Koo SI, Kaur R, **Ho E**, Wong CP, Bruno RS. (2009) Consumption of green tea extract results in osteopenia in growing male mice. *J Nutr.* 139(10):1914-9. PMID: PMC2744612
34. Yan, M, Hardin, K. and **Ho, E**. Differential response to zinc-induced apoptosis in benign prostate hyperplasia cells (BPH-1) and prostate cancer cells (PC-3). (2010) *J. Nutr. Biochem.* Aug;21(8):687-94
35. Scrimgeour AG, Marchitelli LJ, Whicker JS, Song Y, **Ho E**, Young AJ. (2010) Phytase supplementation increases bone mineral density, lean body mass and voluntary physical activity in rats fed a low-zinc diet. *J. Nutr. Biochem.* Jul;21(7):653-8..
36. **Ho, E.** and Song Y. (2008) Influence of zinc on oxidative stress, DNA integrity and cancer risk. *Cell Biol Toxicol.* 24:
37. **Ho, E** and Song Y. Zinc and prostatic cancer (2009) *Curr Opin Clin Nutr Metab Care.* 12(6):640-5.
38. **Ho, E.**, Clarke, JD and Dashwood, RH. (2009) Sulforaphane as an HDAC inhibitor for cancer prevention. *J. Nutr* 139(12):2393-6.
39. Song Y, Elias V, Wong CP, Scrimgeour AG and **Ho E**. (2010) Zinc transporter expression profiles in the rat prostate following alterations in dietary zinc. *Biometals* 23:51-58.
40. Song Y, Elias V, Loban A, Scrimgeour AG, **Ho E**. (2010) Marginal zinc deficiency increases oxidative DNA damage in the prostate after chronic exercise. *Free Radic Biol Med.* 48:82-88.
41. Wong, CP, Magnusson, KR and **Ho, E**. (2010) Aging is associated with altered dendritic cell subset distribution and impaired proinflammatory cytokine response. *Exp Gerontol* 45:163-169.
42. Hsu, A., Bray, TM, Helferich, WG, Doerge, D. and **Ho, E**. (2010) Differential effects of whole soy extract and soy isoflavones on apoptosis in prostate cancer cells *Exp. Biol. Med.* 235(1): 90—97.
43. Hsu, A., Bray, TM and **Ho, E**. (2010) Anti-inflammatory effects of soy and tea in prostate cancer prevention. *Exp. Biol. Med;* 235(6):659-67.
44. Ho, E and Dashwood, RH. (2010) Dietary manipulation of histone structure and function. *World Rev Nutr Diet.* 2010;101:95-102.
45. Bowman GL, Shannon J, **Ho E**, Traber MG, Frei B, Oken BS, Kaye JA, Quinn JF (2011). Reliability and Validity of Food Frequency Questionnaire and Nutrient Biomarkers in Elders With and Without Mild Cognitive Impairment. *Alzheimer Dis Assoc Disord.* 25(1):49-57
46. Hsu, A., Bruno, R.S., Lohr, C.V., Dashwood, R.H., Bray, T.M., and **Ho, E**. (2011) Dietary soy and tea mitigate chronic inflammation and prostate cancer via NFkappaB pathway in the Noble rat model, in vivo *J. Nutr. Biochem;* 22(5):502-10
47. Rajendran, P, Williams, DE, **Ho, E** and Dashwood, RH. (2011) Role of metabolism in generating HDAC inhibitors. *Crit Rev Biochem Mol Bio,* 46(3):181-99
48. Clarke, JD, Hsu, A., Yu, Z, Dashwood, RH and **Ho, E**. (2011) Differential effects of sulforaphane on histone deacetylases, cell cycle arrest and apoptosis in normal prostate cells versus hyperplastic and cancerous prostate cells. *Mol Nutr Food Res,* 55(7):999-1009.
49. Rajendran, P, Delage, B, Dashwood WM, Yu T, Wuth, B, Williams, DE, **Ho, E** and Dashwood, RH. (2011) Histone deacetylase turnover and recovery in sulforaphane-treated colon cancer cells: competing actions of 14-3-3 and Pin1 in HDAC3/SMRT corepressor complex dissociation/reassembly. *Mol Cancer.* 2011 May 30;10:68.
50. Clarke, J.D., Riedl, K.,Bella, D., Schwartz, S., Hardin, K., and Ho, E. (2011) Bioavailability and inter-conversion of sulforaphane and erucin in human subjects consuming broccoli sprouts or broccoli supplement in a cross-over study design. *Pharmacol Res,* 64(5):456-63.

51. Wong, CP, Nguyen, LP, Noh, S, Bray, TM, Bruno, RS and **Ho, E.** (2011). Induction of T-regulatory cells by green tea polyphenol EGCG. *Immunol Letters*, 30;139(1-2):7-13.
52. Clarke, J.D., Hsu, A., Williams, D.E., Dashwood, R.H., and **Ho, E.** (2011) Metabolism and tissue distribution of sulforaphane in Nrf2 knockout and wild-type mice. *Pharm Res* 28(12):3171-9
53. Clarke, J.D., Riedl, K., Bella, D., Schwartz, S., Stevens, JF, and **Ho, E.** (2011) Comparison of Isothiocyanate Metabolite Levels and Histone Deacetylase Activity in Human Subjects Consuming Broccoli Sprouts or Broccoli Supplement. *J. Agric. Food Chem.* 59(20):10955-63.
54. Rajendran, P, **Ho, E,** Williams, DE and Dashwood, RH. (2011) Dietary phytochemicals, HDAC inhibition, and DNA damage/repair defects in cancer cells *Clin Epigenetics*. 2011;3(1):4. Epub 2011 Oct 26
55. Hsu, A, Zhen, Yu, Wong, CP, Williams, DE, Dashwood, RH and **Ho, E.** (2011) Promoter Demethylation of *Cyclin D2* by Sulforaphane in Prostate Cancer Cells. *Clin Epigenetics*. 2011;3(1):3. Epub 2011 Oct 26
56. **Ho, E.,** Beaver, LM, Williams, DE and Dashwood, RH. (2011) Dietary factors and epigenetic regulation for prostate cancer prevention. *Adv in Nutr* 2: 497-510.
57. Parasramka, M., **Ho, E,** Williams, DE and Dashwood, RH (2012) MicroRNAs, diet, and cancer chemoprevention: new mechanistic insights on the epigenetic actions of phytochemicals. *Mol Carcinog.* Mar;51(3):213-3.
58. **Ho E,** Dukovic S, Hobson B, Wong CP, Miller G, Hardin K, Traber MG, Tanguay RL (2012) Zinc transporter expression in zebrafish during development, *Comp Biochem Physiol C Toxicol Pharmacol.* 2012 Jan;155(1):26-32.
59. Parasramka, M., Dashwood, WM, Wang, R., Amir, A, **Ho, E,** Williams, DE and Dashwood, RH (2012) MicroRNA profiling of carcinogen-induced rat colon tumors and the influence of dietary spinach. *Mol Nutr Food Res*, 51(3):213-30
60. Shorey LE, **Ho E,** Dashwood RH, Williams DE, Benninghoff AD (2012) 3,3'-Diindolylmethane induces G₁ arrest and apoptosis in human acute T-cell lymphoblastic leukemia cells. *PLoS One* 7(4):e34975. Epub 21012 Apr 13.
61. Wong, CP and **Ho, E** (2012) Zinc and its role in age-related inflammation and immune dysfunction. (review) *Mol Nutr Food Res.* 56:77-87.
62. Parasramka, M, Wang, R., Saeed, H., Williams, DE, **Ho, E,** and Dashwood. (2012) RH A role for low-abundance miRNAs in colon cancer: the miR-206/Krüppel-like factor 4 (KLF4) axis. *Clin Epigenetics.* 4(1):16.
63. Beaver, LM, Yu, T., Sokolowoski, EI, Williams, DE, Dashwood, RH and **Ho, E.** (2013) Chemopreventative phytochemical 3,3'-diindolylmethane inhibits histone deacetylases in prostate cancer cells. *Tox Appl Pharm* 263:345-51
64. Wong, CP, Magnusson, KR and **Ho, E** (2013). Increased inflammatory response with age is associated with age-related zinc deficiency and zinc transporter dysregulation. *J.Nutr Biochem*, 24:353-9.
65. Wang, R, Lohr, C., Fischer, KA, Dashwood, WM, Greenwood, J, Ashktorab, H, **Ho, E.,** Williams, DE, Dashwood, MR and Dashwood, RH. (2013). Epigenetic inactivation of endothelin-2 (ET-2) and ET-3 in colon cancer. *Int J Cancer*, 132(5):1004-12
66. Luizzi, JP, Wong, CP, **Ho, E** and Tracy, A. (2013) Regulation of hepatic suppressor of cytokine signaling 3 (SOCS3) by zinc. *J. Nutr Biochem*, Jun;24(6):1028-33
67. Grider, A, Wickwire, K, **Ho, E,** Chung, CS and King, J. (2013) Dietary zinc depletion and repletion affects plasma proteins: an analysis of the plasma proteome. *Biometals* 26(1):133-40.
68. Meyer M, Kesic MJ, Clarke J, **Ho E,** Simmen RC, Diaz-Sanchez D, Noah TL, Jaspers I. (2013) Sulforaphane induces SLPI secretion in the nasal mucosa. *Respir Med* 107(3):472-5.

69. Shorey LE, Madeen EP, Atwell LL, **Ho E**, Löhr CV, Pereira CB, Dashwood RH, Williams DE. (2013). Differential modulation of dibenzo[def,p]chrysene transplacental carcinogenesis: maternal diets rich in indole-3-carbinol versus sulforaphane. *Toxicol Appl Pharmacol.* 270(1):60-9.
70. Rajendran P, Kidane AI, Yu TW, Dashwood WM, Bisson WH, Löhr CV, **Ho E**, Williams DE, Dashwood RH. (2013) HDAC turnover, CtIP acetylation and dysregulated DNA damage signaling in colon cancer cells treated with sulforaphane and related dietary isothiocyanates. *Epigenetics.* Jun;8(6):612-23.
71. Watson GW, Beaver LM, Williams DE, Dashwood RH, **Ho E**. (2013) Phytochemicals from Cruciferous Vegetables, Epigenetics, and Prostate Cancer Prevention. *AAPS J.*15(4):951-61
72. Kaur P, Shorey LE, **Ho E**, Dashwood RH, Williams DE. (2013) The epigenome as a potential mediator of cancer and disease prevention in prenatal development. *Nutr Rev.* 71(7):441-57.
73. Wong, CP, Hsu, A, Buchanan, A, Palomera-Sanchez, Z, Beaver, LM, Houseman, EA, Williams, DE, Dashwood, RH and **Ho, E**. (2014) Effects of sulforaphane and 3,3'-diindolylmethane on genome-wide promoter methylation in normal prostate epithelial cells and prostate cancer cells. *PLOS One*, 9(1):e86787. doi: 10.1371/journal.pone.0086787
74. Beaver LM, Buchanan A, Sokolowski EI, Riscoe AN, Wong CP, Chang JH, Löhr CV, Williams DE, Dashwood RH, **Ho E**. (2014) Transcriptome analysis reveals a dynamic and differential transcriptional response to sulforaphane in normal and prostate cancer cells and suggests a role for SP1 in chemoprevention. *Mol Nutr Food Res.* 2014 Oct;58(10):2001-13. doi: 10.1002/mnfr.201400269. Epub 2014 Aug 5.
75. Kang Y, Nian H, Rajendran P, Kim E, Dashwood WM, Pinto JT, Boardman LA, Thibodeau SN, Limburg PJ, Löhr CV, Bisson WH, Williams DE, **Ho E**, Dashwood RH. (2014) HDAC8 and STAT3 repress BMF gene activity on colon cancer cells. *Cell Death Dis.* 2014 Oct 16;5:e1476. doi: 10.1038/cddis.2014.422.
76. Wong CP, Rinaldi NA, **Ho E**. (2015) Zinc deficiency enhanced inflammatory response by increasing immune cell activation and inducing IL6 promoter demethylation. *Mol Nutr Food Res.* 2015 Feb 5doi: 10.1002/mnfr.20140076
77. Joray ML, Yu TW, **Ho E**, Clarke SL, Stanga Z, Gebreegziabher T, Hambidge KM, Stoecker BJ (2015) Zinc supplementation reduced DNA strand breaks in Ethiopian women. *Nutr Res.* 2015 Jan;35(1):49-55.
78. Watson GW, Wickramasekara S, Palomera-Sanchez Z, Black C, Maier CS, Williams DE, Dashwood RH, **Ho E**. (2015) SUV39H1/H3K9me3 attenuates sulforaphane-induced apoptotic signaling in PC3 prostate cancer cells. *Oncogenesis.* doi: 10.1038/oncsis.2014.47.
79. Atwell LL, Hsu A, Wong CP, Stevens JF, Bella D, Yu TW, Pereira CB, Löhr CV, Christensen JM, Dashwood RH, Williams DE, Shannon J, **Ho E**. (2015) Absorption and chemopreventive targets of sulforaphane in humans following consumption of broccoli sprouts or a myrosinase-treated broccoli sprout extract. *Mol Nutr Food Res.* Mar;59(3):424-33 doi: 10.1002/mnfr.201400674.
80. Watson GW, Wickramasekara S, Maier CS, Williams DE, Dashwood RH, **Ho E**. (2015) Analysis of autophagic flux in response to sulforaphane in metastatic prostate cancer cells. *Mol Nutr Food Res* Oct;59(10):1954-61
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85. Rajendran P, Dashwood WM, Li L, Kang Y, Kim E, Johnson G, Fischer KA, Löhr CV, Williams DE, **Ho E**, Yamamoto M, Lieberman DA, Dashwood RH. (2015) Nrf2 status affects tumor growth,

- HDAC3 gene promoter associations, and the response to sulforaphane in the colon. Clin Epigenetics. 2015 Sep 18;7(1):102. doi: 10.1186/s13148-015-0132-y
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 88. Thomson CA, **Ho E**, Strom MB. (2016) Chemopreventive properties of 3,3'-diindolylmethane in breast cancer: evidence from experimental and human studies. Nutr Rev. 2016 Jul;74(7):432-43
 89. Madeen EP, Löhr CV, You H, Siddens LK, Krueger SK, Dashwood RH, Gonzalez FJ, Baird WM, **Ho E**, Bramer L, Waters KM, Williams DE (2016) Dibenzo[def,p]chrysene transplacental carcinogenesis in wild-type, Cyp1b1 knockout, and CYP1B1 humanized mice. Mol Carcinog. 2016 Mar 17. doi: 10.1002/mc.22480. [Epub ahead of print]
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 91. Palomera-Sanchez, Z, Watson, GW, Wong, C., Beaver, LM, Williams, DE, Dashwood, RH and Ho, E. (2017) The phytochemical 3,3'-Diindolylmethane decreases expression of AR-controlled DNA damage repair genes through repressive chromatin modifications and is associated with DNA damage in prostate cancer cells. J Nutr Biochem (accepted 05/25/17) <http://dx.doi.org/10.1016/j.jnutbio.2017.05.005>
 - 92.

BOOKS AND BOOK CHAPTERS

1. Bray, T.M., **Ho, E.**, and Levy, M.A. (1998). Glutathione, sulphur amino acids and chemical detoxification. In: Nutrition and Chemical Toxicity, ed. C. Ioannides, John Wiley & Sons, Ltd. pg 183-201.
2. Higdon, JV and **Ho, E.** (2004) *The Role of zinc as a metallotherapeutic agent.* In: *Metallotherapeutic Drugs and Metal-Based Diagnostic Agents.* pp.237-257. Eds Gielen & Tiekink. John Wiley & Sons.
3. Dashwood RH, **Ho E** (2009) The emerging epigenetic model of colon cancer, and the role of dietary histone deacetylase (HDAC) inhibitors. In: "*Current Challenges In The Understanding and Management of Colon Cancer*" Proceedings of the 38th International Symposium of the Princess Takamatsu Cancer Research Fund, (eds. W. Dove et al.). Princeton Scientific Publishing Co., New Jersey
4. Beaver, LM and **Ho, E** (2013) The role of cruciferous vegetables in prostate cancer:role of epigenetics. In: "Diet, Nutrition and Cancer" Eds. Shankar, S & Srivastava, R. Springer Press,
5. Nutrition and Epigenetics (Oxidative Stress & Disease Series) (2014) CRC press, Taylor & Francis Group; Editors: Emily Ho and Frederick Domann.

SCIENTIFIC MEETINGS, POSTER AND ORAL PRESENTATIONS

1. The Oxygen Society Annual Meeting, Miami, FL, 1996
2. Experimental Biology, New Orleans, LA 1997
3. Experimental Biology, San Francisco, CA 1998
4. The Oxygen Club of California, Santa Barbara, 1998
5. The Oxygen Society Annual Meeting, New Orleans, 1999
6. Experimental Biology, Washington, DC 1999
7. Experimental Biology, San Diego, CA 2000

8. The Oxygen Society Annual Meeting, Research Triangle, 2001
9. Trace Elements in Man and Animals (TEMA-11), Berkeley, CA, 2002
10. International Society for Trace Element Research in Humans, Quebec City, PQ, 2002 [**“Zinc deficiency alters DNA integrity and impairs DNA repair pathways in C6 glioma cells”**, Ho, invited speaker, minisymposia]
11. Diet and Optimal Health conference, Portland, OR, 2003 [poster presentation]
12. Society for Free Radical Biology and Medicine, Seattle, WA, 2003 [**“Differential responses to ionizing radiation with zinc deficiency”** Ho, invited speaker, minisymposia]
13. Experimental Biology, Washington, DC 2004 [poster presentation]
14. FASEB summer conference- trace elements, Aspen, CO, 2004 [**“Effects of zinc deficiency on DNA damage responses”**, Ho, invited speaker, minisymposia]
15. Society for Free Radical Biology and Medicine, St. Thomas, VI, 2004
16. Society for Free Radical Research (ASEAN), Taipei, Taiwan, 2004 [**“Zinc Status, DNA integrity and cancer risk”**, Ho, invited plenary speaker]
17. American Association for Cancer Research, Anaheim, CA, 2005 [3 student posters (Myzak, MC/ Yan, M./ Colgate, E.) *Myzak- AACR Young investigator award*]
18. Oxidative Stress Symposium-U of K, Lexington, KY, 2005 [**“Effects of zinc status on oxidative stress, DNA and cancer risk”**, Ho, invited plenary speaker]
19. Diet and Optimal Health Conference, Portland, OR, 2005 [4 student posters (Hsu, A., Myzak, MC., Yan, M and Colgate, E.)]
20. American Urological Association, summer conference, Baltimore, OR, 2005
21. Experimental Biology, San Francisco, CA, 2006 [3 student posters, 2 student mini-symposium talks, *Myzak- SEBM Travel award winner*]
22. NIH/NIAAA Workshop-Zinc, Alcohol and Immunity, 2006 [**“Zinc deficiency, oxidative stress and gene expression”** Ho, invited plenary speaker]
23. Society Free Radical Research (Asia) 2006, Kuching, Malaysia, [**“Dietary phytochemicals for prostate cancer prevention”** Ho, invited symposium speaker]
24. Diet & Optimal Health Conference, 2007 [**“Dietary HDAC inhibitors in prostate cancer prevention”**, Ho, invited symposium speaker, 4 student posters, 3 young investigator finalists, Anna Hsu, PhD student- Young Investigator winner]
25. Experimental Biology, 2007, Washington, DC [Ho, Vitamins & Minerals RIS Poster competition organizer]; Chair- Zinc Minisymposium, American Society for Nutrition.]
26. International Society for Trace Element Research in humans, 2007 Crete, Greece [**“Influence of zinc status on DNA integrity and cancer”**, Ho, invited symposium speaker; symposium organizer]
27. Experimental Biology, 2008, San Diego, CA [Chair- Vitamins & Human health Minisymposium, American Society for Nutrition, 3 student presentations Hsu and Song, RIS student award winners]
28. NIEHS Epigenetics workshop, Research Triangle, NC, 2008 [**“Dietary HDAC inhibitors for cancer prevention”** [invited plenary speaker]
29. American Dietetics Association, Chicago, IL, 2008 [**“Phytochemicals and cancer prevention, invited plenary speaker**]

30. American Institute of Cancer Research Annual conference, 2008, [*Clarke, student travel award and poster.*]
31. NCI translates meeting, DC, 2008 [by invitation only presenter]
32. Diet & Optimal Health, Portland, OR, 2009; [session organizer/chair, 4 student posters]
33. Experimental Biology, New Orleans, 2009 [**“Dietary HDAC inhibitors for cancer prevention” invited symposium speaker**, session chair, 1 student presentation; *Yang Song- ASN Vitamin & Minerals RIS poster competition winner*]
34. 3rd Congress of the International Society for Nutrigenomics, 2009; [**“Dietary manipulation of histone structure” invited symposium speaker**]
35. Experimental Biology, Anaheim, CA, 2010 [Differential effect of SFN on normal and prostate cancer cells, invited minisymposium talk, 1 student presentation; *John Clarke ASN Bioactives and ASN Diet and Cancer RIS poster competition winner, ASN Student Interest Group poster finalist*]
36. Experimental Biology, Washington, DC 2011 [**Comparison of the response to broccoli sprouts or broccoli supplement consumption in human subjects invited minisymposium talk**, 1 student presentation; *John Clarke ASN Bioactives and ASN Diet and Cancer RIS poster competition winner.*]
37. Trace Elements in Man and Animals meeting, Enshi, China 2011 [**Zinc, DNA integrity and cancer risk : from cells to humans, invited plenary speaker**].
38. Oregon Public Health Association Annual conference, Corvallis, OR 2011 [**Diet, epigenetics and cancer risk, panel organizer and speaker**]
39. Novus International Science Day, St. Louis, MO 2011 [**Zinc and prostate cancer risk**], invited plenary speaker
40. Experimental Biology, San Diego, CA, 2012 [2 student posters, 1 minisymposium talk, *Laura Beaver ASN Diet and Cancer RIS poster competition winner*]
41. Society for Free Radical Research, Alba, Italy June 2012 [**“Dietary HDAC inhibitors for prostate cancer prevention, invited speaker**]
42. International Breast Cancer & Nutrition Symposium, Lafayette, IN, Oct 2012 [**Diet and epigenetics for cancer prevention, invited speaker**]
43. Food, Nutrition & Health Update, Corvallis, OR Feb 2013. Conference organizer and chair.
44. Experimental Biology April 2013. Boston, MA [doctoral student minisymposium and 2 postdoctoral student posters; Atwell PhD student, ASN clinical emerging scholar award, Nkrumah-Elie, MARC travel award]
45. Diet & Optimal Health Conference, Corvallis, OR. May 2013. Conference symposium organizer and chair, 2 student and 3 postdoc presentations.
46. International Symposium in Nutrition, Oxygen Biology and Medicine, June 2013, Paris, France, [**“Zinc, age and inflammation” invited symposium speaker and panelist**]; student poster competition judge.
47. Food, Nutrition & Health Update, Corvallis, OR Feb 2014. Conference organizer and chair.
48. Experimental Biology April 2014, San Diego, CA [2 doctoral student and 2 postdoctoral posters; Nkrumah-Elie, MARC travel award]
49. May 2014 – Purdue University, W3002 Multi-state meeting
50. Oct 2014 – Metal Toxicity and Carcinogenesis conference, Albuquerque, NM [**Zinc, DNA integrity and cancer susceptibility**] invited talk.

51. Nov 2014 - Whole Grain Council annual meeting – “Moore Family Center” presentation
52. Dec 2014- Grains for Health Foundation/USDA – Private and Public Partnership meeting.
53. June 2015 – Whole Grain Summit, Portland, OR – conference chair and organizer
54. Aug 2015 – University of Montana, W3002 Multi-state meeting
55. Sept 2015 – Diet and Optimal Health Conference, Corvallis, OR – 3 postdoctoral posters and 1 oral presentation “Sulforaphane and lincRNA for cancer prevention”
56. Oct 2015 – USDA/University of North Dakota Nutritional Epigenetic Symposium – [Diet, epigenetics and cancer prevention], invited keynote speaker
57. Feb 2016 – Food, Nutrition and Health Update, Portland, OR – conference organizer and speaker “Diet and cancer prevention”.
58. April 2016 – Experimental Biology, San Diego, CA
59. May 2016 – University of Illinois W3002 Multi-state meeting
60. Sept 2016 – NIEHS Obesity meeting, Bethesda, MD

OTHER INVITED PRESENTATIONS (INTERNAL AND EXTERNAL)

1. April ,2003- EMT Departmental Seminar, host: Larry Curtis
2. Sept 2003- CGRB annual retreat, invited speaker
3. Aug 2003- Corgentech Corporation- NFkappaB in disease
4. Jan 2004- OHSU Dental School seminar, host Kristen Lampi
5. Feb 2004- Pharmacy seminar, host Mark Leid
6. Feb 2004- NFM507 seminar- Nutrigenomics
7. Oct 16, 2005- OHSU, Center for Environmental Toxicology (CROET) seminar
8. Sept 2016 - “Dietary HDAC inhibitors in prostate cancer prevention” Host: Jackie Shannon
9. Feb 2007- NFM/EXSS507 seminar - Dietary Strategies for Prostate Cancer Prevention
10. April 2007- OSU Horticulture seminar- Plant-based prevention strategies for prostate cancer prevention
11. April 2008 - Center for Free Radical Biology, University of Alabama, Birmingham; invited Seminar Series presenter
12. May 2008 - Ohio University, Department of Chemistry Seminar, invited Series presenter
13. May 2008 -The Ohio State University, Dept of Nutrition Seminar, invited Series presenter
14. Sept 2009 - University of Arizona, Dept of nutrition, invited seminar speaker
15. Sept 2009 - University of Arizona Cancer Center, invited seminar speaker
16. Nov 2009 – OSU EMT department seminar “Zinc, DNA integrity & cancer risk”
17. Dec 2011 – University of Nebraska, Lincoln; Nutrition & Health Sciences Departmental seminar “Diet, epigenetics and prostate cancer prevention”.
18. June 2012 – Colorado State University, Fort Collins, CO; Departmental seminar “Foods, phytochemicals and prostate cancer risk”
19. Oct 2012- Purdue University, “Diet and prostate cancer prevention”; invited seminar
20. Feb 2013 – University of Massachusetts, “Diet, epigenetics and cancer prevention” Tay Gavin Erickson invited lecture series.

21. Sept 2013 – University of New Mexico, “The role of zinc status on DNA and inflammatory processes”, invited seminar series.
22. Oct 2013 – Oregon State University, College of Veterinary Medicine “ Zinc, DNA, epigenetics and inflammation” invited seminar series
23. Nov 2013 – Oregon Health & Sciences University, Oregon Institute for Occupation Health Seminar series – “Sulforaphane, epigenetics and prostate cancer”, invited speaker
24. Feb 2014 – OSU Horticulture seminar series “Plant-based diets and chemoprevention”, invited speaker
25. April 2014 – OSU Environmental & Molecular Toxicology seminar series “Diet, Epigenetics and cancer prevention”, invited speaker (note invitation from TEAM Tox, EMT graduate student group)
26. April 2014 – NIH Office of Dietary Supplements, Washington, DC “ Cruciferous vegetables, epigenetics and prostate cancer prevention”, invited seminar speaker
27. April 2014 – Texas A&M University, Department of Nutrition; keynote speaker for Research Day “Diet, epigenetics and cancer prevention”
28. May 2014 – OSU postdoctoral association, mentoring presentation and coffee
29. Sept 2014 – Iowa State University, Modern view of nutrition seminar series “Diet, epigenetics and cancer prevention”.
30. Feb 2015 – OSU Food Science and Technology seminar series “Moore Family Center”.
31. April 2016 – OSU Center for Genome Research and Biocomputing Spring Conference, Corvallis, OR- invited speaker “Diet, epigenetics and cancer prevention”.

OUTREACH PRESENTATIONS

1. May 3, 2003- Dietician Update Conference, “Nutrition and the genetic revolution” invited speaker
2. June 2003- OSU Regents Tour (presentation)- The “future” of nutrition
3. Aug, 2004- OSU Board of Trustees (presentation), “Dietary influences on cancer”
4. July 2005- Western Forestry Association (presentation) “The genetic revolution in nutrition and health”
5. Summer 2004, 2005- Undergraduate student research mentor, HHMI
6. Oct 2005- Association for Office Professionals- “How did food get into my genes?”
7. Winter 2006- George Fox University- Honors student presentation “Dietary influences on prostate cancer”
8. Spring 2006- Academy for Life Long Learning (ALL) (in association with OSU alumni association) -curriculum instructor- 2 hour lecture “Influence of diet on DNA integrity and prostate cancer risk”.
9. Fall 2006- LPI 10th Anniversary Celebration
10. Fall 2006- “Classes without Quizzes” Homecoming/Alumni Association; presentation” Diet and prostate cancer”.
11. Spring 2008-Academy for Life Long Learning (ALL) (in association with OSU alumni association) -curriculum instructor- 2 hour lecture “Diet and prostate cancer risk”.
12. Spring 2008-“Classes without Quizzes” OSU Golden Jubilee; presentation” Exercise & Diet: Links to better health”. Spring 2008
13. Fall 2008- Corvallis Senior Center – “New Frontiers in Nutrition Research”

14. Fall 2008- OSU Foundation Wellness series – “Diet and Cancer Prevention’
15. Winter 2009- OSU Women’s Basketball “Pink Zone” event – “Nutrition & breast cancer”.
16. Spring 2009 – Corvallis “Pub” series (OSMI/OSU sponsored) - “Eat smart, get active and age well”.
17. Summer 2010 - STEPS- Highschool teacher outreach program – “Genetics and Epigenetics in cancer prevention”.
18. Fall 2010 – OSU “Pink Out” event for breast cancer – speaker “Diet and breast cancer prevention”
19. Spring 2011 – Nutrition now! (OSU dietetics student radio show) – guest “Nutrition and cancer prevention”
20. Spring 2011 – OSU Faculty Staff Fitness Nutrition series – speaker “Diet & Cancer prevention”.
21. Fall 2011- OSU Triad Faculty Club – speaker “Zinc, oxidative stress and prostate cancer”.
22. April 2013- Academy for LifeLong Learning, Oregon State University; speaker “Diet, Genes and Cancer risk”.
23. July 2013 – Multnomah County 4-H Youth Exploring Academics in Health (YEAH!) Camp – “Eat healthy and live well!”
24. Oct 2013 – GridIron Chef contest and Trivia
25. Nov 2013 – OSU Triad Faculty Club – “Eat well for preventing inflammation and cancer”.
26. Jan 2014 – Lunafest – Women’s film festival – keynote speaker
27. Feb 2014 – Destination OSU, Scottsdale, AZ “Building a better lunch”
28. March 2014 – FCH/4H Annual conference, Portland, OR “Moore Family Center Outreach”.
29. April 2014 – Nutrition Council of Oregon “ Empowering communities towards healthy eating”
30. May 2014 – OSU Foundation Healthy living event “Whole Grains and building a better lunch”.
31. May 2014 – Keynote speaker- Lunafest Women’s Film festival, Corvallis, OR
32. Oct 2014 – Keynote speaker- PinkOUT event and conference, Corvallis, OR “Diet and cancer prevention”
33. Oct 2014- Beaver Bowl and GridIron Chef competition; organizer and judge
34. Oct 2015- Oregon Child Education program – “Empowering communities towards healthy eating”
35. Nov 2015- Beaver Bowl and GridIron Chef competition; organizer and judge
36. Feb 2015- PEO All-City lecture “You are what you eat- role of diet in cancer prevention”.
37. Nov 2015 – Linus Pauling Institute Webinar series “Tipping the odds in your favor: diet and cancer prevention”
38. Oct 2016 – Sister’s Science Club “Nutrition, diet and cancer prevention”.

TEACHING

Resident Classes:

NUTR 418/518- Advanced Human Nutrition: Micronutrients, Winter 05, 06, Fall 07, W09, W10, W11, W12, W13, W14, W15, W16 (4 credits) – 45-50 undergraduate/ 4-6 graduate students

*(*note: W12 student evaluation of teaching scores: average 5.9 of possible 6.0; 42 responses)*

NUTR 617/699- Metabolic Interrelationships: Nutrition and Cancer- Spring 04, Fall 05, Fall 07, Sp10, W12 (3 credits) – 6-10 graduate students

NUTR618- Advances in micronutrients: Winter09,11,SP12 (3credits) 4-10 graduate students

NUTR 507- Graduate Seminar coordinator- Winter 04, 05; Fall 2006, W09, F12 (1 credit)

Other Classes/mentoring:

Molecular & Cellular Biology-MCB511-Research perspectives- course coordinator (3credits) Fall 2004, 2005, 2007

Guest lectures (1-2 lectures) in:

MCB511 Research Perspectives (Fall06,08,09,10,11), 2 hr lecture + student essay grading

MCB525 Techniques in molecular biology (Fall 05,06,07) 2 hr lecture, genomics

NUTR550 Nutrition Assessment (Sp05, 07, 09,11); Trace elements -4 hrs lecture time + student paper discussions

NUTR340 Principles of Nutrition Metabolism (Sp08), Nutrient-gene interactions, 1.5h lecture

NUTR104 Orientation: Nutrition (F09,F10, F12, F13) 1 hr lecture, intro to nutrition sciences

NUTR514 Health Benefits of Functional Foods (Sp04,06,08), 2 lectures, intro to cancer prevention and zinc

PHAR563 Cancer chemoprevention (Sp10,Sp11,Sp12,Sp14,Sp16), 2 hr lectures Diet and prostate cancer + grading student essays.

PH599 Cancer Epidemiology (W12, W13, W14,W16) 1.5 hr lectures- Diet & cancer; 1.5 hr lecture – Epigenetics

NUTR618 Advances in Micronutrients (W13,W15) 5 1.5h lectures – methyl donor nutrients, Epigenetics, Zinc, Copper and Iron.

Honors College U-engage ALS-199H (F14) opportunities and research in nutrition.

Undergraduate NFM 401- research

(mentor for undergraduate research projects- 2-3 credit per term for each student)

Undergraduate students:

Marcie Aker NFM (enrolled fall, winter and spring (2003-2004)

Katie Paul NFM (enrolled fall 2003)

Rachelle Sohler NFM (enrolled fall, winter and spring (2003-2004)

Thuan Nyguen –Biology/Honors College (Fall 2004-June 2005)

Mary McGregor- Biology/Honors College (Spring 2005- Summer 06)

Elyssa Ackerman- NFM (Winter 2006-present)

Katy Marvel-Biochemistry/Honors College (Winter2006-spring06)

Mariah Doty- NFM (Spring 2006- June 2007)

Michelle Higgins – NFM (Winter 2007- June 2007)

* Goldwater scholarship recipient

Victoria Martin – NFM (Winter 2007- June 2007)

Steven Phan- Biology (Summer 2007-spring 2009)

Emily Chirnside –NUTR (Fall 2008- Spring 2011)

Brad Hobson- UC Davis (Summer 2009)

Linda Nguyen – Biology (Spring 2010- summer 2011)

Lesleann Hayward – Biochemistry (Spring 2010- summer 2011)

Marilyn “Jeannie” Allen- NUTR (Spring 2010-June 2012), Honors college thesis

Chelsea Black- NUTR (Winter 2012- Spring2013) Undergraduate CUE winner

Alison Riscoe- NUTR (Winter 2012- Spring2013) Undergraduate CUE winner

Elizabeth Sokolowski – Biology (Winter2011-Fall2013)

Nicole Rinaldi – Bioresource Research (Winter 2012-Fall2013) CUE winner

Kim Kelsey – NUTR- Spring 2013- June2014), URAP awardee
Sarah Glasser- NUTR (Spring 2013- present)
Jessica Reynolds – NUTR (Winter 2014- Spring2015), URAP awardee, CUE winner
Nathan Nguyen- BIOL (Summer 2014- Spring2015)
Dawn Phillips- NUTR (Fall 2014- Summer 2015)
Caroline Hansen- NUTR (Fall 2014- present) URAP awardee
Tyler Chase- NUTR (Fall2015- present) URAP awardee
Katie Costello (Fall2015-present)

Mentor- Martha Prieto- Summer Research program (2004) T-35 NIEHS Training Grant for Minority Undergraduate Research

Mentor- Mary McGregor- HHMI/URISC summer research program (2005)

Mentor- Ryan Haran, NES URAP, 2008-2009

*OSU foundation student scholarship profile

Mentor- Luke Snelling, NES URAP, 2009-2010

*Poster winner, 2010 OSU undergraduate celebration of excellence

Mentor- Tracy Beckmann, NES URAP, 2009-2010

Mentor- Lesleann Hayward, BB, Summer 2010 LIFE Scholar

Mentor- Linda Nguyen- NES URAP, 2010-2011

Mentor- Linda Nguyen- URISC, summer 2011

Mentor- Marilyn Allen- Honors thesis mentor; HHMI Summer scholar, summer 2011, URAP 2011-2012

Mentor- Chelsea Black, Alison Riscoe, PHS URAP 2012-2013

Mentor – Nicole Rinaldi- Bioresource Research thesis mentor (Spring2012-Fall2013)

Mentor - Kim Kelsey, PHS URAP 2013-2014

Mentor – Annie Cao, Honors college, thesis mentor (Winter 2015- present) Honors college SURE awardee

Mentor – Tyler Chase, (Winter 2015- present) NUTR, PHS URAP 2015-2016, 2016-2017

Public Health interns:

Preceptor – Michelle Heintz, Health Promotion and Health Behavior “Let’s Get Healthy”, summer 2015

Preceptor – Laura Preciado, Health Promotion and Health Behavior “Moore Family Center, Hispanic opportunities”.

International programs:

Fu-Jen University, Taiwan, invited seminar presentation “The genetic revolution in nutrition” (Oct 2004)

Fu-Jen University, Taiwan- exchange program- taught 2-week intensive graduate class “Nutrition and Cancer” 30 hours lecture- 10 students (March 2005)

Fu-Jen University, Taiwan- exchange program- 1- week intensive graduate class “Advances in trace elements” 15 hours lecture –20 students (June 2006).

Postdoctoral foreign fellowship/faculty exchange:

Dr. Zoraya Palomera-Sanchez (Winter2014-Fall2015) –(CONACYT Consejo Nacional de Ciencia y Tecnología, Mexico Exchange program fellowship recipient)

Dr. Haiyan Hu (Winter 2016-present) – visiting profesor, non-coding RNA and cáncer, China

Graduate Student foreign fellowship/Exchange:

Suzanne Dufresne, Master’s Student intern, University of Rennes, France; Project: exercise, nutrients, epigenetics and tumor Development.

Graduate Students (primary advisor)

1. Mindy Myzak, PhD (MCB) (Sept 2003-June 2005) co-advisor (with Rod Dashwood)
 - a. *SEBM student travel award, 2006
2. Michelle Yan, PhD (Nutrition) (Sept 2003- June 2008)- advisor
3. Yang Song, PhD (Nutrition) (Sept 2004-June 2009) advisor
 - a. *ASN Vitamins&Minerals poster competition winner, 2008 &2009)
4. Sang Eun Lee, MS (Nutrition) (Sept 2004-June 2007) co-advisor (with Maret Traber)
5. Anna Hsu, PhD (Nutrition) (Jan 2005- July 2009) advisor
 - a. *LPI Diet & Optimal Health Young Investigator award, 2007
 - b. *ASN Diet & Cancer poster competition winner, 2008
6. Rhianna Derenick, MS (Nutrition) (Sept 2004- Jan 07) advisor
7. Christopher Cheng, MS (MCB) (Sept 2010-June 2011) advisor
8. John Clarke, PhD (MCB) (Spring 2007-2011)
 - a. *DOD predoctoral fellowship award 2009-2011
 - b. *AICR travel award 2009
 - c. *ASN Bioactives poster competition winner, 2010 & 2011
 - d. *ASN Diet & Cancer poster competition winner, 2010 & 2011
9. Lauren Atwell, PhD (Nutrition) (Fall 2010- June 2015)
 - a. *Natural Products fellowship awardee, 2011
 - b. *ASN Emerging Clinical Leader award, 2013
 - c. *ASN Bioactives poster competition winner 2014
10. Gregory Watson, PhD (MCB) (Fall 2011-June 2015)
 - a. MCB conference winner 2012
11. John Rolshoven, PhD (MCB) Spring 2016- present

Xiaobo Fei, PhD (MCB PhD program)- Spring 2005 rotation
John Clarke, PhD (MCB PhD program)- Winter 2007 rotation
Galen Miller, PhD (MCB PhD program)- Winter 2008 rotation
Prasaad Kopparuku (EMT PhD program) – Fall 2008 rotation
Lindsay Stewart, PhD (MCB PhD program)- Fall 2009 rotation
Andrea Knecht (MCB PhD program) Spring 2010 rotation
Greg Watson (MCB PhD program) Spring 2011 rotation
Katherine Kasper (NUTR PhD program) Winter 2014 rotation
John Rolshoven (MCB PhD program) Spring 2016 rotation

Graduate committee member:

Lanae Joubert, PhD (NES)(Sept 2003-June 2007)
Tyler Barker PhD (NES) (Jan 2004- June 2009)
I-Hsui Huang, PhD (Microbiology) (Sept 2003-June 2007)

Xiaobo Fei, PhD (MCB) (Jan 2005- June 2007)
Hui Hu, PhD (NES) (Jan 2004- Sept 2007)
David Castro, PhD (EMT) (Winter 2005- June2009) (Grad rep)
Christine Larsen, PhD (MCB) (Winter 2005-Jan 2010)
Juan Vanegas, MS (BB) (Winter 2006-June 2007) (Grad Rep)
Kerry Hart, MS (NES) Sept 2006-June 2009
Hao Wei, PhD (Genetics) (Winter 2007-Winter2010)
Sumitra Sengupta, PhD (EMT) (Fall 2006-Summer 2010) (Grad Rep)
Kate Cleveland, MS (EMT) (Winter 2007- Fall2009)
Hui Nian, PhD (EMT) (Winter 2007- Spring2010)
Keith Nylin, PhD (BB) (Spring 2007-withdraw)
Kari Abott-Piolla, PhD (NES) (Winter 2007-Spring2013)
Lynn Ciadella, PhD (NES) (Winter 2007- Spring 2011)
Eric Smith, PhD (BB) (Winter 2008- Spring2014)
Lyndsey Shorey, PhD (EMT) (Winter 2008-2012)
Michael Raboin, PhD (MCB) (Spring 2009- 2012) (GCR)
Sherry Farley, PhD (NES) (Spring 2009- Spring 2013)
Chris Depner, PhD (NES) (Spring 2009- Spring 2013)
Sasmita Tripathy, PhD (NES) (Spring 2008 – Fall 2012)
Daniel Coleman, PhD (Phar) (Spring 2008 – Spring 2013)
Kelli Lytle, PhD (NUTR) (Fall 2013- present)
Sara Smith, MS (FST) (Fall 2012-Summer 2014)
Erin Madeen, PhD (EMT) (Spring 2011- Spring2015)
Alyssa Hansen, MS (FST) (Winter 2015-Spring2015)
Sarah Lanyoun, MS (PSM/MCB) (Winter 2015-Fall2015)
Barath Sunchu, PhD (BB) (Winter 2014- present)
Melissa Conley, PhD (NUTR) (Fall2014- present)
Nicholas Larkey, PhD (Chemistry) (Fall 2014-present)
Ting Luo, PhD (FST) (Winter2014-present)
Andres Cardenas (PH-EOH) (Winter2014-present) (Grad Rep)
Olivia Lindy (PH-HPHB) Fall 2015-present) (Grad Rep)
Omar Miranda, MS (FST) (Spring 2015-present)
Courtney Armour, PhD (Microbiology) Winter 2016- present
Joseph Meeuwson, PhD (MCB) Spring 2016- present
Laura Holden, PhD (EMT) Spring 2016-present

Postdoctoral trainees:

Dr. Orianna Carter (Sept 2004-Aug 2006)
Dr. Melinda Myzak (June 2005-Aug 2006)
Dr. Zhen Yu (Jan 2007-Jan 2009)
Dr. Stephanie Dukovcic (Jan 2010 – Dec 2010)
Dr. Anna Hsu (Sept 2009 – Spring2012)
Dr. Carmen Wong (March 2006—present)
Dr. Laura Beaver (Jan 2011- present)
Dr. Yasmeeen Nkrumah-Elie (Fall2012- Dec 2014)
Dr. ZhenZhen Zhang (Fall2015-present)

Curriculum development:

NES- Fitness & Nutrition major development
NES- MPH program in Physical Activity & Nutrition
NES- Nutrition & Health Science option revisions

Molecular Cellular Biology Interdisciplinary PhD program – course development & sequence ad hoc advisory committee

SERVICE, DEPARTMENTAL

Undergraduate professional advisor- Nutritional Sciences track students (2003-present)
Dietetics Faculty Search committee (2006/2007)
Nutrition & Aging Faculty search committee (2005/2006)
Bionutrition Search committee (2005/2006)
NES Curriculum committee – co-chair (2005/2006); member (2006-present)
NES Curriculum task force I (Winter 2004)
Bone Research Lab director Search committee (2004)
Bone Research Lab histology search committee (2004)
Departmental seminar coordinator (winter 04, 05, fall 06, fall08, winter09)
Linus Pauling Institute seminar coordinator (2003-2004)
MPH in physical activity & nutrition – ad hoc curriculum development team (2009)
Nutrition science option – ad hoc revision team (2009/2010)
Dietetics faculty search committee (2010/2011)
Personnel committee (2008-2012)
Co-Director search committee (internal) (2014)
Dietetic Internship Coordinator Search committee (2014)
Nutrition Public Health Search committee (2015)
Environmental & Molecular Toxicology Search, College of Ag, committee (2016)
Clinical Assistant Professor, Nutrition, Search Chair (2016)

SERVICE, COLLEGE

PHHS representative for Transgenic Facility task force (2003-2009)
Lab Animal Research Center Advisory Committee (2005-present)
Public health division structure team (2010).
Search Chair- Endowed Director for Moore Center for Whole Grains, Nutrition & Preventive Health (2011/2012)
PHHS CEPH accreditation subcommittee- instructional team (2011-2012)
PHHS CEPH accreditation ad hoc committee- graduate survey & assessment (2011-2012)
PHHS College Values ad hoc committee (2012)
Health Sciences Division- Dual degree development (DVM/MPH and PharmD/MPH) (2011/2012)
Dean's Research advisory group (2011-2013)
Search Chair- Endowed Professor for Moore Family Center (2013)
PHHS Administrative Team Council (2012-present)
PHHS communication advisory team (2014)
School of Biological and Population Health Sciences, School head screening committee, chair (2015)
PHHS Dean Search Committee (2015/2016)

SERVICE, UNIVERSITY

Faculty Senate (2003-2006)
Search committee- LARC directors/attending veterinarian (2007)
Search committee- Molecular Cellular Biology program director search (2008)
Scientific Advisory board- Center for Genome Research & Biocomputing (2008-2011)
Molecular & Cellular Biology Interdisciplinary Graduate program – selection committee (2009-present).
IACUC compliance officer search committee (2010)
Center for Genome Research & Biocomputing Director Search committee(2011)
IACUC committee (2009-present)
Center for Genome Research & Biocomputing – Bioinformatics cluster hire search committee (2012)
OSU/OHSU Genomics resource oversight committee (2012)
LPI translational task force strategic planning chair (2013)
LPI Cancer Chemoprevention Program strategic planning member (2013)
Associate Dean for Outreach, College of Agriculture, Search committee member (2014)

Healthy Eating/Healthy Campus committee member (2014-present)

Director, Cancer Prevention and Intervention Core, Linus Pauling Institute (2015-present)

Co-director, OSU/OHSU Cancer Prevention and Control Initiative (2015-present)

SERVICE, PROFESSIONAL

Editorial Board- Journal of Nutrition

Editorial Board Member- Journal of Nutritional Biochemistry

Editorial Board Member- Frontiers in Epigenetics

Co-organizer- Symposia (Trace elements & disease)- International Trace Element Research in Humans Conference.

Oregon Partnership for Cancer Control- Prevention committee member

Western Association for Graduate Studies – Thesis Award Reviewer

Society for Free Radical Biology & Medicine- meeting abstract reviewer

Linus Pauling Institute Pilot Grant program- Grant reviewer

Chair-elect (2006/2007): Vitamins & Minerals Research Interest Section (VMRIS), American Society for Nutrition.

Chair (2007/2008): Vitamins & Minerals Research Interest Section (VMRIS), American Society for Nutrition.

Experimental Biology 2007- minisymposia organizer/chair : Zinc metabolism

Experimental Biology 2008- minisymposia organizer/chair: Vitamins & Human Health

ASN symposia advisory committee (2008)

Experimental Biology 2009- symposia organizer/chair: Epigenetic control

Experimental Biology 2010- zinc and mineral regulation minisymposia organizer/co-chair

Experimental Biology 2011- zinc and mineral regulation minisymposia organizer/co-chair

Diet & Optimal Health Conference – Session chair and organizer (2011)

Trace Elements in Man & Animals conference- session chair and symposium organizer (2011)

MBG-2-Grant review panel- Department of Defense Prostate Cancer Research Program (2008)

NCCAM-ZAT1 PK (11) study section review panel (ad hoc) (2010)

Grant reviewer- Singapore Ministry of health (2011)

Prevention, Epidemiology and treatment grant review panel- Department of Defense Prostate Cancer Research Program (2011)

NCI-Cancer, Diet & prevention (CDP) special emphasis panel- grant reviewer (ad hoc) (2011)

External PhD dissertation reviewer, University of Adelaide, Nutrition (2012)

Data Safety Monitoring Board, member & chair, OHSU/OSU “Xanthohumol and Metabolic Syndrome” Clinical Trial.(2011/2012)

Oxygen Club of California World Congress (2012) Poster competition judge

Oxygen Club of California World Congress (2013) Poster competition judge

NCCAM- ZAT1 SM29 “Mechanistic Research on CAM Natural Products” (2013)–grant review panel

ARS-USDA NP 107 Panel 15: Animal/In Vitro Models (2013) - grant Panel Chair

Carver Charitable Trust Foundation – grant review panel (2014)

USDA-Hatch project- Oklahoma State University reviews (2015)

ARS- project plan reviewer (2015)

Medical Research Council –UK – grant reviewer (2015)

NCCIH- ZAT1 SM (42) S – Career development study section (ad hoc) (2016)

NCI-CDP study section (ad hoc) (2016)

Ad hoc manuscript reviewer for:

Journal of trace elements in experimental medicine

American Journal of Clinical Nutrition
Journal of Nutrition
Journal of Clinical Chemistry
Journal of the Society for Experimental Biology and Medicine
Journal of the Society for Free Radical Biology and Medicine
Journal of Thoracic Oncology
Environmental & Molecular Mutagenesis
Toxicology & Applied Pharmacology
Cancer Letters
Diabetes
Journal of Urology
PLOS one
Pharmaceutical Research
Molecular Food Research and Nutrition
Clinical Biochemistry
Journal of Biological Chemistry
Mutation Research

FACULTY DEVELOPMENT

Workshop on interdisciplinary graduate programs (2008)
Leadership Academy – OSU (2011/2012)
PHHS Leadership Development Workshop (2011/2012)

ADMINISTRATION

Since 2012, I have served as the Endowed Director of the the Moore Family Center for Whole Grain Foods, Nutrition and Preventive Health (MFC). The center has mission to excel in research, education and outreach around nutrition and healthy eating. The MFC fosters collaborations among researchers by providing mechanisms for researchers & students to learn and train in food and nutrition research in a multi-disciplinary environment and provide research services in dietary assessment and human dietary studies. In Oct 2013, the MFC name Renee Carr as the Endowed MFC outreach coordinator and began the MFC Outreach Center in Multnomah County. As part of this endeavor, the MFC has initiated whole grain community based projects in all 12 regions of OR. Each project will reach every region of the state to help communities be healthier through with healthy diets in various ways. Each project has research & evaluation component helping bridge research with outreach efforts across the state. The MFC also hosted the annual Food, Nutrition & Health update each year in Feb that hosted about 200 researchers and health professionals. In 2015, the Moore Family Center hosted the international Whole Grain Summit in Portland, OR. Faculty members in the MFC have obtained extramural funding from NIH, USDA and private foundations, actively publish in peer-reviewed journals and engage both graduate and undergraduate students in research and experiential learning. Research includes studies around perceptions of whole grains and health, identification of barriers to healthy eating, acceptability of whole grain products and studies examining the effect of whole grains on obesity-induced inflammation. The MFC has also developed and continued “Healthy Cooking and Meals 101” outreach programs for college students that will be used for future research around healthy food perceptions and behavior in college-aged adults. Together, research projects in the MFC will have impact on the health and dietary recommendations for the population.

Education and Outreach: The MFC continues to work with University Housing and Dining service and OSU community at large to provide healthier food options and educate around healthy eating. We

collaborated on offering new healthy choices for students (Grain Bowls at Marketplace West, whole grain tastings at dining halls) and also collaborated in the first annual GridIron Chef Tailgate Recipe challenge that culminated in a healthy tailgating event in front of Reser stadium. The contest engaged students and alums, and challenged them to come up with healthy tailgate snacks. The MFC also began Community Nutrition Monthly services and MFC Blogs by OSU dietetic interns and continues our cooking classes and completed a milling bike project with mechanical engineering students. Importantly, we utilize nutrition students and dietetic interns for all of these projects to offer experiential learning experiences. We also have strong partners in OSU Extension to communicate and reach the communities across Oregon. We also continue to partner with the OSU Kidspirit program on campus and provide kitchen space, instructor support and training and curriculum for the summer youth cooking camps (Chefs in Motion – grades 3-5 and Future Iron Chefs- grades 5-8). Evaluation and scholarly outputs are in an important goal for all of our outreach activities. In 2014, we launched the Healthy Community Outreach projects, partnering with OSU Extension and 4H programs to implement evidence-based outreach programs centered around healthy eating in every region of the state.

Other service:

Faculty Staff Fitness Instructor- Cardio Kickboxing (2003- present)