

Brian Lindshield

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PROFESSIONAL EXPERIENCE

Assistant Professor, Kansas State University, Department of Human Nutrition, Manhattan, KS.
2008-Present

Graduate Research Assistant/Graduate Teaching Assistant. University of Illinois at Urbana-Champaign 2005-2008.

Jonathon Baldwin Turner Fellow, University of Illinois at Urbana-Champaign 2003-2005.

Undergraduate Research Assistant, Kansas State University, Manhattan, KS 2002-2003.

EDUCATION

Ph.D., Division of Nutritional Sciences, University of Illinois at Urbana-Champaign (UIUC),
2008.

Dissertation Title: "Lycopene, Selenium, Vitamin E and Prostate Cancer"

Dissertation Advisor: Professor John W. Erdman Jr.

B.S. in Human Nutrition, with honors, *summa cum laude*, Kansas State University, Manhattan,
KS, 2003

Associate of Science, summa cum laude, Pratt Community College, Pratt, KS, 2001

TEACHING EXPERIENCE

Instructor, Kansas State University

Nutrition and Cancer (HN 911) 2011-Present

-Graduate student discussion course on current understanding of nutrition and cancer

Human Nutrition (HN 400) 2009-Present

-Intermediate undergraduate nutrition course taught on campus in spring and online in fall, spring, & summer.

Advanced Micronutrient Metabolism (HN 812 Team Taught), 2009-Present

-Teach fat-soluble vitamins, calcium, phosphorous, & magnesium, taught every other spring

Graduate Seminar in Human Nutrition (HN 880) 2010-Present

-Teach graduate students presentation skills, fall

Basic Nutrition (HN 132, Fall Semester Course Coordinator) 2009-2010

-Introductory course is taught by a GTA, involved in course design, assignment/exam production, & give feedback to GTA on teaching observation.

Teaching Assistant, Nutritional Biochemistry II, UIUC, 2008

-Presented selenium and vitamin E lectures, constructed and graded tests, assisted students with learning material

Teaching Assistant, Contemporary Nutrition, UIUC, 2007-2008

-Responsible for handling grading program (Compass), student communication, student advisory committee, guest lecturer, and test question submission

Volunteer Teaching Assistant & Guest Lecturer, Nutritional Biochemistry II, UIUC, 2005-2007

-Presented selenium and vitamin E lectures, assisted in test construction and grading

College of ACES Teaching College Graduate, UIUC, 2004

-Program designed to train new faculty members and graduate students

Cadaver Dissection Team, Kansas State University, 2003

-Responsible for teaching anatomy using cadavers

PROFESSIONAL ORGANIZATIONS

American Society for Nutrition

Society for Nutrition Education

HONORS AND AWARDS

2010 Outstanding Alumnus & Commencement Speaker, Pratt Community College, 2010

Peer Review of Teaching Program, Kansas State University, Spring 2010

Outstanding Faculty Member Award, Lambda Chi Alpha Fraternity, Spring 2010

Wakonse Fellow, 2009

Phi Kappa Phi Member, Inducted 2008

Travel Award, The 15th International Symposium on Carotenoids, Okinawa, Japan, June 22-27 2008

Travel Award, American Institute for Cancer Research Launch Conference, Nov. 1-2 2007

Graduate Student Research Presenter, Nutritional Sciences External Advisory Committee, Sept. 2007

Travel Award, Vitamin D and Health in the 21st Century Conference, NIH/ODS, Sept. 5-6 2007

Procter & Gamble Graduate Student Research Abstract Competition Finalist, American Society for Nutrition, 2007

- One of 12 graduate students in US & Canada selected

David H. Baker Nutrition Scholar Award, Division of Nutritional Sciences, UIUC, 2007

-Given to the most outstanding graduate student in Nutritional Sciences

Nutrition Symposium Oral Presentation Winner, Division of Nutritional Sciences, UIUC, 2007

Margin of Excellence Research and Travel Awards, Division of Nutritional Sciences, UIUC, 2003-2006

Jonathon Baldwin Turner Fellow, UIUC, 2003-2005

Cancer Research Award, Kansas State University, 2003

NJCAA Distinguished Academic All-American, Pratt Community College, 2001

GRANTS AND CONTRACTS

5alpha-reductase inhibitors for reduction of prostate epithelial cell growth. National Institute of Health Center of Biomedical Research Excellence (COBRE), Epithelial function in health and disease \$189,000. 2009-2012.

5α-reductase inhibitors for the reduction of prostate tumor growth. \$25,850. Terry C. Johnson Center for Basic Cancer Research, 2009-2010.

PEER REVIEWED JOURNAL ARTICLES

Ford, N.A., Elsen, A.C., Zuniga, K., ***Lindshield, B.L.***, Erdman, J.W., Jr. Lycopene and apo-12'-lycopenal reduce cell proliferation and alter cell cycle progression in human prostate cancer cells. *Nutrition and Cancer*. 632: 256-263, 2011.

Lindshield, B.L., Ford, N.A., Canene-Adams, K., Diamond A.M., Wallig, M.A., Erdman, J.W., Jr. Selenium, but not lycopene or vitamin E, decreases growth of transplantable Dunning R3327-H rat prostate tumors. *PLoS One*. 2010.

<<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0010423>>

Erdman, J.W., Ford, N.A., ***Lindshield, B.L.*** Are the health attributes of lycopene related to its antioxidant function? *Arch Biochem Biophys*, 483: 229-235, 2009.

<<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2745920/>>

Lindshield, B.L., King, J.L., Wyss, A., Goralczyk, R., Lu, C., Ford, N.A., Erdman, J.W., Jr. Lycopene biodistribution is altered in 15, 15'-carotenoid monooxygenase knockout mice. *J Nutr*, 138: 2367-2371, 2008.

Lindshield, B. L., Canene-Adams, K. and Erdman, J. W., Jr., Lycopeneoids: are lycopene metabolites bioactive? *Arch Biochem Biophys*, 458: 136-140, 2007.

Canene-Adams, K., ***Lindshield, B. L.***, Wang, S., Jeffery, E. H., Clinton, S. K., and Erdman, J. W., Jr. Combinations of tomato and broccoli enhance the anti-tumor activity in Dunning R3327-H prostate adenocarcinomas. *Cancer Res*, 67: 836-843, 2007.

Campbell, J.K., Canene-Adams, K., ***Lindshield, B.L.***, Boileau, T.W., Clinton, S.K. and Erdman, J.W., Jr., Tomato phytochemicals and prostate cancer risk. *J Nutr*, 134: 3486S-3492S, 2004.

BOOK CHAPTERS

Lindshield, B.L. Carotenoids. In: *Present Knowledge in Nutrition*, 10th edition, In Press.

Lindshield, B.L., Erdman, J.W. Carotenoids. In: J.A. Milner, D.F. Romagnolo (eds) *Bioactive Compounds and Cancer*, 311-334, Springer, 2010.

<http://www.springerlink.com/content/978-1-60761-626-9/#section=720991&page=1&locus=0>

Lindshield, B.L., and Erdman, J.W., Jr. Carotenoids. In: B.A. Bowman and R.M. Russell (eds), Present Knowledge in Nutrition, 9th edition, 184-197. Washington DC: International Life Sciences Institute, 2006.

ABSTRACTS

Lindshield, B.L. Kansas State University Human Nutrition (HN 400) Flexbook. Journal of Nutrition and Education Behavior. 43: S4 (Abstract O10), 2011.

Acheampong, A., Nelson, M.K., Unis, D., **Lindshield, B.L.** 5 α -reductase inhibition to decrease prostate tumor growth. Experimental Biology 2011. April 9-13, 2011, Washington, DC.

Acheampong, A., Higgins, M.K., Dissmore, T., **Lindshield, B.L.** 5 α -reductase inhibition to decrease prostate tumor growth. NIH, NCCR 3rd Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE). June 16-18, 2010, Bethesda, MD.

Lindshield, B.L., Zuniga, K.E., Erdman, J.W., Jr. Do lycopene metabolites/oxidation products inhibit the growth of mouse embryonic fibroblasts through a connexin 43 gap junction independent pathway? Carotenoid Science, 12: 48, 2008.

Erdman, J.W. Jr., Ford, N.A., **Lindshield, B.L.** Are health attributes of lycopene related to their antioxidant function? Carotenoid Science, 12: 48, 2008.

Erdman, J.W. Jr., **Lindshield, B.L.**, Canene-Adams K., and Clinton S.K., Tomato carotenoids and prevention of prostate cancer. J Clin Biochem Nutr, 41:35 (Abstract S05-1), 2007.

Lindshield, B.L., Ford, N.A., Canene-Adams, K., Wallig, M.A., and Erdman, J.W. Jr., Selenium, but not lycopene or vitamin E, decreases growth of transplantable Dunning R3327-H prostate tumors. FASEB J, 21: A58 (Abstract 112.5), 2007.

Lindshield, B.L., Ford, N.A., Canene-Adams, K., Wallig, M.A., and Erdman, J.W., Jr. Selenomethylselenocysteine, but not lycopene or γ -tocopherol, decreases growth of transplantable Dunning R3327-H prostate tumors. J Nutr, 137: 288S, 2007.

Lindshield, B. L., and Erdman, J. W., Jr. Lycopene treatment reduces proliferation of mouse embryonic fibroblasts via a connexin 43-dependent, but gap junction communication dependent pathway. FASEB J, 20: A1060 (Abstract 669.9), 2006.

King, J. L., **Lindshield, B. L.**, Wyss, A., Goralczyk, R., and Erdman, J. W., Jr. Both lycopene and beta-carotene metabolism are altered in BC-15,15'-monooxygenase (CMOI) knock-out mice. FASEB J, 20: A549 (Abstract 369.3), 2006.

Lindshield, B.L., Canene-Adams, K., Clinton, S.K. and Erdman, J.W., The effect of tomato, broccoli, lycopene, or finasteride treatment on connexin 43, Skp2, or PTEN protein levels in Dunning R-3327-H transplantable prostate tumors. FASEB J, 19: A82 (Abstract 73.6), 2005.

Lindshield, B.L., Jennings, D., Molteni, A., Umbehr, J., Li, T., Xue, Y., Reppert, S., Wang, W. and Baybutt, R.C. Measurement of lung retinoic acid receptors (RARs) in rats exposed to cigarette smoke with or without dietary all-trans retinoic acid (RA). *FASEB J*, 18: A499 (Abstract 355.5), 2004.

Canene-Adams, K., Clinton, S.K., King, J.L., Wharton, C., **Lindshield, B.L.**, Jeffery, E., and Erdman J.W., Jr., The growth of Dunning R-3327-H transplantable prostate adenocarcinoma in rats fed diets containing tomato, broccoli, lycopene, or receiving finasteride treatment. *FASEB J*, 18: A886 (Abstract 591.4), 2004.

Canene-Adams, K., Clinton, S.K., King, J.L., **Lindshield, B.L.**, Wharton, C., Jeffrey, E., and Erdman, J.W., Jr., The effect of diets containing tomato, broccoli, or lycopene or finasteride treatment on the growth of Dunning R-3327-H transplantable prostate adenocarcinomas in rats. *J Nutr*, 12: 3535S, 2004.

SEMINAR/PRESENTATIONS

7/25/11 Society of Nutrition Education Oral Presentation
-“Kansas State University Human Nutrition (HN 400) Flexbook”

9/29/10 Axio Learning Conference 2010
-“Flexbooks,” video of presentation at: <http://2010.axioconference.org/followup/>

3/22/10 Department of Anatomy & Physiology Seminar
-“5 α -reductase inhibitors and prostate cancer”

1/12/10 7th annual K-State Teaching Retreat
-“Flexbooks: Better than Textbooks?”
<http://www.k-state.edu/catl/fete/Retreat2010/Abstracts2010.pdf>
<http://www.k-state.edu/catl/fete/Retreat2010/presentations/FlexBooks.pdf>

11/17/09 Department of Human Nutrition Seminar
-“Behind the Curtain - How my Ph.D. really went down & how I got from there to here.”

Sources where I have been quoted or contacted as an expert

12/15/10 Issue 16 Axio Quarterly
Flexbooks: What Can They Do For You?
<http://axiolearning.org/news/2010/dec/15/flexbooks-what-can-they-do-you/>

9/14/10 Kansas State Collegian
Eating well not complicated, easy to do
<http://www.kstatecollegian.com/news/eating-well-not-complicated-easy-to-do-1.2328432>

9/9/10 Kansas State Collegian
‘Little Debbie diet’ may not be so sweet
<http://www.kstatecollegian.com/news/little-debbie-diet-may-not-be-so-sweet-1.2323537>

2/12/10 KTKA 49 Interview

Is dark chocolate really healthier?

<http://www.ktk.com/news/2010/feb/12/dark-chocolate-really-healthier/>

2/8/10 K-State Press Release Human Ecology Version

Dark chocolate: a healthier dose of affection

<http://www.he.k-state.edu/news/2010/02/08/dark-chocolate-a-healthier-dose-of-affection/>

Fall 2009 Issue 105 American Institute for Cancer Research Newsletter

Prostate Cancer: Next Steps for Research

<http://www.aicr.org/site/DocServer/AICR-NL105W.pdf?docID=3161>

STUDENT TRAINING

I. Undergraduate Students Mentored (7):

1. Areli Monarrez (former Bridges & Develop Scholars Program student)
2. Melissa Short (Public Health Nutrition)
3. Russ Wolters (Nutritional Sciences)
4. Victoria Fort (Bridges & Developing Scholars Program student)
5. Casey McCaw (Public Health Nutrition)
6. JP Sibbitt (Nutritional Sciences & McNair Scholar)
7. Johanna Diaz (Bridges & Developing Scholars Program student)
8. Geoff Digiacinto (Microbiology)
9. Irma Ailon (Nutritional Sciences, Bridges student)

II. Graduate Students (2)

1. Alexander Boadu Opoku-Acheampong, completed M.S. in 2011, 1st year PhD student.
2nd place in the Biological Science Oral Session at the 2011 Kansas State Research Forum
2. Kavitha Penugonda 2nd year PhD student

III. Graduate Student Committees

1. Tzu-Yu Chen MS student

SERVICE

Manuscript Reviewer:

Journal of the American Dietetic Association

Journal of Medicinal Food

Comparative Medicine

Journal of Nutrition

Nutrition & Cancer

Nutrition Reviews

Advisor, Nutritional Sciences Majors, 2009-Present
Advisor, Health & Nutrition Society (Student Interest Group), 2009-Present
Undergraduate Oral Presentation Judge, K-State Research Forum, 2010
MPH Graduate Faculty Member, 2010-Present
Chair ASN Diet & Cancer Research Interest Section, 2011-2012
Chair Elect ASN Diet & Cancer Research Interest Section, 2010-2011
Co-Chair ASN Diet & Cancer, Micronutrients and Bioactive Compounds Minisymposium,
Experimental Biology 2010
Website Committee, College of Human Ecology, Kansas State University 2011-present
Academic Affairs Committee Member, College of Human Ecology, Kansas State University
2009-2011
Mentor, NIH Bridges to the Future Program, 2009-present
Mentor, K-State Developing Scholars Program, 2009-present

OUTREACH/OTHER PUBLICATIONS

Lindshield B.L., Kansas State University Human Nutrition (HN 400) Flexbook
<http://goo.gl/vOAnR>

Lindshield, B.L., and Erdman, J.W., Jr. Update on Carotenoids. In: A. Bowley (ed), Nutriview,
pp 3-4. http://www.dsm.com/en_US/downloads/dnp/nutriview_2006_4.pdf, 2006.

Lindshield, B.L., Keck, A.S., Erdman, J.W., Jr. Tomato and Cancer Prevention Module In:
Functional Foods and Cancer Prevention I: 2005, <http://xtrain.cfs.purdue.edu/>
-Continuing education credit for nurses and dietitians