

CURRICULUM VITAE

Elizabeth T. Jacobs, Ph.D.

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CHRONOLOGY OF EDUCATION

Arizona Cancer Center
University of Arizona
Tucson, Arizona
Post-doctoral Fellow 12/01-08/03

University of Arizona
Nutritional Science Department
Tucson, Arizona
Nutritional Sciences Ph.D., 2001

Dissertation: “Effect of a Cereal Fiber Intervention on Nutrient Intake and Adenoma Recurrence in the Wheat Bran Fiber Trial.”
Advisor and thesis supervisor: María Elena Martínez, Ph.D., and Anna R. Giuliano, Ph.D.

Purdue University
Department of Food and Nutrition
West Lafayette, IN
Foods and Nutrition M.S., 1996

Thesis: “Response of a protein disulfide isomerase-like activity of transitional endoplasmic reticulum to all-trans retinol.”
Advisor and thesis supervisor: Dorothy M. Morré, Ph.D.

Bowling Green State University
Department of Biology
Bowling Green, OH
Biology B.S., 1993

CHRONOLOGY OF EMPLOYMENT

ACADEMIC

Associate Professor , Division of Epidemiology and Biostatistics, University of Arizona Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, Arizona	07/10-present
Associate Professor, Joint appointment , Nutritional Sciences, University of Arizona, Tucson, Arizona	03/13-present
Assistant Professor , Division of Epidemiology and Biostatistics, University of Arizona Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, Arizona.	09/05-07/10
Research Assistant Professor , Division of Epidemiology and Biostatistics, University of Arizona Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, Arizona.	09/03-09/05
Post-Doctoral Fellow , Arizona Cancer Center, University of Arizona, Tucson, Arizona.	12/01-08/03
Pre-Doctoral Fellow , Arizona Cancer Center, University of Arizona, Tucson, Arizona	07/99-12/01
Project Manager , Watchful Waiting with Selenium Project, Arizona Cancer Center, University of Arizona, Tucson, Arizona	11/97-06/99
Project Manager , Negative Biopsy Study, Arizona Cancer Center, University of Arizona, Tucson, Arizona	11/97-06/99
Laboratory Assistant , Selenium and Cancer Projects, Arizona Cancer Center, University of Arizona, Tucson, Arizona	07/96-11/97
Teaching Assistant , Department of Nutritional Sciences, University of Arizona, Tucson, Arizona	07/96-12/96
Graduate Teaching Assistant , Department of Foods and Nutrition, Purdue University, West Lafayette, Indiana	08/93-12/95
Graduate Research Assistant , Department of Foods and Nutrition, Purdue University, West Lafayette, Indiana	08/93-05/96

TEACHING

Course Director , Cancer Prevention and Control Seminar	12/11-present
Course Director , Doctoral Seminar in Epidemiology	08/10-present
Course Director , Nutritional Epidemiology, University of Arizona, Tucson, AZ	05/07-present
Course Co-Director , Nutritional Epidemiology, University of Arizona, Tucson, Arizona.	01/03-05/07
Course Co-Director , Cancer Epidemiology, University of Arizona, Tucson, Arizona	08/04-12/04
<i>Current Students</i>	
Dissertation Committee Chair , Steve Haenchen, Epidemiology	12/12-present
Dissertation Committee Member , Stephanie Koch, Epidemiology	12/12-present
M.P.H. Advisor , Alexander McCourt, Epidemiology	12/12-present
Academic Advisor , Lindsay Schulz, Epidemiology	11/12-present
M.P.H. Advisor , Mariana Casal Sepulveda, Epidemiology	08/12-present
M.P.H. Advisor , Zimy Wansaula, Epidemiology	08/12-present
M.S. Advisor , Paul Kang, Epidemiology	08/12-present
Dissertation Committee Member , Danielle Vassallo, Nutritional Sciences	04/12-present
Dissertation Committee Chair , Christine Sardo, Epidemiology	05/11-present
<i>Graduates</i>	
M.P.H. Preceptor , Amanda Anderson Brewer, Family and Child Health	09/11-05/13
M.P.H. Advisor/Internship Committee Chair , Derel Glashower, Epidemiology	08/11-05/13
M.P.H. Preceptor , Isaac Lee, Epidemiology	11/11-12/12

M.P.H. Committee Member , Brooke Adams, Family and Child Health	12/11-12/12
M.P.H. Advisor/Internship Committee Chair Catherine Golenko, Epidemiology	08/10-05/12
M.P.H. Committee Member , Michael Birnbaum, Epidemiology	05/11-05/12
M.S. Committee Member , Christopher Davidson, Biostatistics	10/11-05/12
M.P.H. Preceptor , Paul Kang, Epidemiology	08/11-05/12
Dissertation Committee Member , Javier Reyna, Veterinary Sciences	05/08-05/12
M.P.H. Committee Member , Erika Pond, Epidemiology	12/10-12/11
Dissertation Committee Member , Fatimah Yousef, Nutritional Science	07/10-12/11
Dissertation Committee Member , Luis Fernando Aranguren Caro, Veterinary Sciences	01/08-12/11
Dissertation Committee Chair , Elizabeth Hibler, Epidemiology	09/08-05/11
M.P.H. Advisor/ Internship Chair , Tiffany Parns, Epidemiology	08/09-05/11
M.P.H. Advisor/Internship Committee Member , Amanda Baker, Epidemiology	05/09-05/11
M.P.H. Advisor/Internship Committee Member , Stephen Langlois, Epidemiology	06/07-08/10
M.P.H. Advisor/Committee Member , David Sohmer, Epidemiology	08/07-05/10
M.P.H. Advisor , Francine Womandress, Epidemiology	08/06-05/10
M.P.H. Committee Member , Sibeso Namakando	01/08-05/10
M.P.H. Internship Preceptor , Martin Cisneroz	05/08-05/09
M.P.H. Advisor and Internship Chair , Katherine Ovsevit Epidemiology	06/07-05/09
M.P.H. Advisor and Internship Chair , Kristina Valenzuela, Epidemiology	08/06-05/09
Dissertation Committee Member , Jan Egan, Cancer Biology	08/06-05/09
M.S. Committee Member , Jose Benuzillo, Epidemiology	08/06-05/08

Internship Committee Chair, Ruiyun Jiang, Epidemiology
M.P.H. student 08/06-08/07

Course Director, 2 hour independent study in Epidemiology,
Renee Yu 08/06-12/06

HONORS AND AWARDS

The Arizona Partnership for Immunization "Hot Shots" Award 04/13

Tucson's 40 Under 40 Leadership Award 10/09

Mel and Enid Zuckerman College of Public Health Excellence in
Research Award 05/09

Sidney E. Salmon Distinguished Junior Investigator Award, Arizona
Cancer Center 05/09

The American Society for Bone and Mineral Research
Young Investigator Award 12/06

University of Arizona International Affairs Foreign Travel Award 07/03

National Cancer Institute Post-Doctoral Training Fellowship,
University of Arizona, Tucson, Arizona 12/01-08/03

National Cancer Institute Pre-Doctoral Training Fellowship,
University of Arizona, Tucson, Arizona 07/99-12/01

PROFESSIONAL SOCIETIES

American Society for Bone and Mineral Research (ASBMR)
American Association of Cancer Research (AACR)

EDUCATIONAL WORKSHOPS

The 17th Annual Special Session for R25, K07 and Prevention and
Control K22 grantees/fellows sponsored by the Cancer Training
Branch of the National Cancer Institute 03/07

Grants Preparation and Review Workshop, Arizona Cancer Center,
Tucson, AZ 12/04

Molecular Epidemiology Training Course, National Cancer
Institute, Rockville, MD 08/01

Pathobiology of Cancer Workshop, American Association of
Cancer Research, Keystone, CO 07/00

Epidemiology Workshop, The New England Epidemiology Institute,
Boston, MA 07/97

OTHER SCHOLARLY PARTICIPATION

Guest speaker, Public Health Nutrition, CPH 478/578 04/13

Guest speaker, Infectious Disease Epidemiology, CPH 660 04/13

Guest speaker, Introduction to Public Health, CPH 200 01/13

Invited speaker, The Arizona Partnership for Immunization, Phoenix, AZ 01/13

Guest speaker, Cancer Prevention and Control Seminar 696B 02/12

Guest speaker, Epidemiology Seminar EPID 696A 01/12

Guest speaker, Cancer Prevention and Control Seminar 696B 09/11

Guest Speaker, Chronic Disease Epidemiology EPID 670 09/11

Guest speaker, Epidemiology Seminar EPID 696A 09/11

Guest speaker, Epidemiology Seminar EPID 696A 10/10

Guest speaker, Cancer Epidemiology EPID 615 (3 hours) 10/10

Guest Speaker, Chronic Disease Epidemiology EPID 670 (3 hours) 09/10

Guest Speaker, Chronic Disease Epidemiology EPID 670 (3 hours) 09/09

Genetics and Society Roundtable Panelist, School of Law 09/08

Guest Speaker, Statistical Consulting EPID 685 (2 hours) 09/08

Guest Speaker, Chronic Disease Epidemiology EPID 670 (3 hours) 09/08

Guest Speaker, Statistical Consulting EPID 685 09/07

Guest Speaker, Maternal and Child Health Nutrition CPH 478/578 09/07

Guest Speaker, Cancer Epidemiology EPID 615 10/07

Attendee, Office of Dietary Supplements, “Vitamin D and Health in The 21 st Century” Meeting. Bethesda, MD.	Sept 2007
Invited Participant, NCI “Vitamin D: Current Dilemmas, Future Needs” Meeting. Bethesda, MD.	May 2007
Guest Speaker, Epidemiology Seminar	10/06
Guest Speaker, Cancer Epidemiology	10/06
Guest Lecturer, Cancer Epidemiology	11/05
Mentorship of a Medical Student in the Medical Student Research Program	05/03-05/04
Mentorship of an Intern in the Masters of Public Health Epidemiology Program, Department of Epidemiology, University of Arizona.	02/02- 07/02
Session Chair, Internship Conference, College of Public Health, University of Arizona.	04/02
Invited speaker for the Prostate Cancer Support Group, Arizona Cancer Center, University of Arizona	04/99

SERVICE

Annual Performance Review Peer Committee Chair, Division of Epidemiology and Biostatistics, College of Public Health	2012-present
Vax Facts Community Forum, Chair	05/11
Associate Editor, Molecular Carcinogenesis	07/11-present
Promotion and Tenure Committee, College of Public Health	08/10-present
Research Advisory Committee, College of Public Health	2008-present
Editorial Board, Cancer Epidemiology, Biomarkers, and Prevention	2008-present
Annual Performance Review Peer Committee, Division of Epidemiology and Biostatistics, College of Public Health	2006-2011
Epidemiology Faculty Search Committee	08/10-07/12

Day of Discovery Speaker, Arizona Cancer Center	2009
Epidemiology Qualifier Reviewer and Grader	2008-2009
Youth University: Science Camp Faculty Chair	2008-2009
Epidemiology Forum Faculty Chair	2007-2010
Youth University: Science Camp Organizer and Presenter	2006-2007
College of Public Health Accreditation Internal Review Committee	2005

Journal Reviews

Cancer Prevention Research	08/11-present
Journal of the National Cancer Institute	03/03-present
American Journal of Epidemiology	10/03--present
Cancer Epidemiology, Biomarkers & Prevention	01/07-present
Molecular Nutrition and Food Research	03/08
Archives of Dermatological Research	05/07
Journal of Clinical Gastroenterology	08/06
Cancer	06/06
Clinical Cancer Research	11/05
Photochemistry and Photobiology	03/05

Grant Reviews

World Cancer Research Fund International	05/2013
Pennsylvania State grant reviews	06/12
Italian Ministry of Health	08/10-present
American Cancer Society Pilot Grants	12/07-present
American Institute for Cancer Research	07/10-present

NCI Study Section Member, Chemo-Dietary Prevention	02/10
Northwest Health Foundation	09/03
New Zealand Health Research Council	01/03

PUBLICATIONS (Published or Accepted)

Invited Book Chapters

Jacobs ET, Thompson PA, Martínez ME. Environmental and Lifestyle Issues in Colorectal Cancer. In: Gastrointestinal Oncology: Principles and Practices, Second Edition. In press.

Martínez ME, **Jacobs ET**. Dietary Fiber, Carbohydrates, and Cancer. In: Nutritional Oncology, Second Edition. Elsevier Academic Press: Burlington, MA, 2006.

Whitfield GK, Jurutka PW, Haussler CA, Hsieh JC, Barthel TK, **Jacobs ET**, Encinas Dominguez C, Thatcher ML, Haussler MR. Nuclear Vitamin D Receptor: Bioactions, Structure-Function and Molecular Control of Gene Transcription. In: Vitamin D, Second Edition. Elsevier Academic Press: Burlington, MA, 2005.

Martínez ME, **Jacobs ET**. Diet and Environment, Role in Colon Cancer. In: Encyclopedia of Gastroenterology. Academic Press, Inc: San Diego, CA, 2004.

Articles in Peer-Reviewed Journals

Hsu C-H, Long Q, Li Y, **Jacobs ET**. A Nonparametric Multiple Imputation Approach for Data with Missing Covariate Values with Application to Colorectal Adenoma Data, Journal of Biopharmaceutical Statistics, in press.

Jacobs ET, Hibler EA, Lance P, Sardo CL, Jurutka PW. Association between circulating concentrations of 25(OH)D and colorectal adenoma. Int J Cancer, 2013 Jun 10. doi: 10.1002/ijc.28316. [Epub ahead of print].

Yousef, F, **Jacobs ET**, Kang PT, Hakim IA, Going S, Yousef JM, Al-Raddadi RM, Kumosani TA, Thomson CA. Vitamin D status and breast cancer in Saudi Arabian women: a case control study. Am J Clin Nutr. 2013 May 22. [Epub ahead of print]

Martínez ME, Pond E, Wertheim BC, Nodora JN, **Jacobs ET**, Bondy M, Daneri-Navarro A, Meza-Montenegro MM, Gutierrez-Millan LE, Brewster A, Komenaka IK, Thompson P. Association Between Parity and Obesity in Mexican and Mexican-American Women: Findings from the Ella Binational Breast Cancer Study. J Immigr Minor Health. 2013 Apr;15(2):234-4. PMID:22618357

- Jacobs ET***, Van Pelt C*, Forster R, Zaidi W, Hibler EA, Galligan MA, Haussler MR, Jurutka PW. Characterization of CYP24A1 and CYP27B1 polymorphic variants reveals modulation of enzymatic activity and differential regulation of vitamin D metabolism in human colon cancer cells. *Cancer Research*, 2013 Feb 19[Epub ahead of print]. PMID:23423976
- Jacobs ET**, Thomson CA, Flatt SW, Newman VA, Rock CL, Pierce JP. Correlates of 25-hydroxyvitamin D and breast cancer stage in the Women's Healthy Eating and Living Study. *Nutrition and Cancer*, 2013 Feb;65(2):188-94. PMID:23441606
- Birnbaum MS, **Jacobs ET**, Ralston-King J, Ernst KC. Determinants of high vaccination exemption rates among kindergartens. *Vaccine*. 2013 Jan 21;31(5):750-6. PMID: 23246263
- Lance P, Thompson PA, Roe DJ, Fales L, Buckmeier J, Wang F, Hamilton SR, Bhattacharyya A, Green SB, Hsu CH, Ahnen DJ, Boland CR, Heigh R, Fay DE, Martinez ME, **Jacobs ET**, Ashbeck EL, Alberts DS. Design and baseline characteristics of study participants in a phase III randomized trial of celecoxib and selenium for the prevention of colorectal adenomas. *Cancer Prev Res*, 2012 Dec;5(12):1381-93. PMID:23060037
- Martínez ME, Thompson PA, Ashbeck EL, Messer K, Lieberman DA, Baron JA, Ahnen DJ, Robertson DJ, **Jacobs ET**, Greenberg ER, Cross AJ, Atkin W. One-year Risk of Advanced Colorectal Neoplasia: US vs. UK Risk-stratification Guidelines. *Annals of Internal Medicine*. 2012 Dec 18;157(12):856-64. PMID: 23247939
- Rejnmark L, Avenell A, Masud T, Anderson F, Meyer HE, Sanders K, Salovaara K, Cooper C, Smith H, **Jacobs ET**, Torgerson D, Jackson RD, Manson JE, Brixen K, Mosekilde L, Robbins JA, Francis RM, Abrahamsen B. Vitamin D with calcium reduces mortality: patient-level pooled analysis of 70,528 patients from eight major vitamin D trials. *J Clin Endocrinol Metab*. 2012 May 17. [Epub ahead of print]. PMID: 22605432
- Ernst KC, **Jacobs ET**. Implications of philosophical and personal belief exemptions on re-emergence of vaccine-preventable disease: The role of spatial clustering in under-vaccination. *Human Vaccines and Therapeutics*, 2012 Jun 1;8(6). [Epub ahead of print]. PMID:22508414
- Martinez ME, **Jacobs ET**, Baron JA, Marshall JR, Byers T. Dietary Supplements and Cancer Prevention: Balancing Potential Benefits against Proven Harms. *J Natl Cancer Inst, J Natl Cancer Inst*. 2012 Apr 25. [Epub ahead of print] PMID:22534785
- Neuhouser ML, Manson JE, Millen A, Pettinger M, Margolis K, **Jacobs ET**, Shikany JM, Vitolins M, Adams-Campbell L, Liu S, Leblanc E, Johnson KC, Wactawski-

- Wende J. The Influence of Health and Lifestyle Characteristics on the Relation of Serum 25-Hydroxyvitamin D With Risk of Colorectal and Breast Cancer in Postmenopausal Women. *Am J Epidemiol*. 2012 Feb 22. [Epub ahead of print]. PMID:22362582
- Hibler EA, Hu C, Jurutka PW, Martinez ME, **Jacobs ET**. Polymorphic variation in the GC and CASR genes and associations with vitamin D metabolite concentration and metachronous colorectal neoplasia. *Cancer Epidemiol Biomarkers Prev*, 2012 Feb;21(2):368-75. PMID:22144504
- Brunner RL, Wactawski-Wende J, Caan BJ, Cochrane BB, Chlebowski RT, Gass ML, **Jacobs ET**, Lacroix AZ, Lane D, Larson J, Margolis KL, Millen AE, Sarto GE, Vitolins MZ, Wallace RB. The Effect of Calcium plus Vitamin D on Risk for Invasive Cancer: Results of the Women's Health Initiative (WHI) Calcium Plus Vitamin D Randomized Clinical Trial. *Nutr Cancer*. 2011 Jul 20. [Epub ahead of print]
- Heath DD, Flatt SW, Thomson CA, **Jacobs ET**, Pruitt MA, Rock CL. Quantification of 25-hydroxyvitamin D using a commercial HPLC kit method. *Br J Biomed Sci*. 2011;68(2):86-91.
- Nodora J, Martz WD, Lance P, Thompson PA, Ashbeck EA, **Jacobs ET**, Martínez ME. Quality of colorectal cancer screening recommendations among primary care physicians. *Cancer Causes Control*. 2011 Sep;22(9):1277-87.
- Win AK, Dowty JG, English DR, Campbell PT, Young JP, Winship I, Macrae F, Lipton L, Parry S, Young GP, Buchanan DP, Martinez ME, **Jacobs ET**, Ahnen DJ, Haile RW, Casey G, Baron JA, Lindor NM, Newcomb PA, Potter JD, Le Marchand L, Gallinger S, Hopper JL, Jenkins MA for the Colon Cancer Family Registry. Association between body mass index and colorectal cancer risk for DNA mismatch repair gene mutation carriers. *Br J Cancer*, 2011 May 10 [Epub ahead of print].
- Jacobs ET**, Martínez ME, Jurutka PW. Vitamin D: Marker or mechanism of action? *Cancer Epidemiol Biomarkers Prev*, 2011 Apr;20(4):585-90.
- Jacobs ET**, Martínez ME, Buckmeier JA, Lance P, May M, Jurutka PW. Circulating FGF-23 is associated with metachronous colorectal adenoma, *J Carcinog*, 2011 Feb 12;10:3.
- Dickinson SE, Olson ER, Zhang J, Criswell J, Casanova A, Dong Z, Hu C, Saboda K, **Jacobs ET**, Alberts DS, Bowden GT. p38 MAP Kinase Plays a Functional Role in UVB-Induced Mouse Skin Carcinogenesis. *Mol Carcinog* 2011 Jan 25. [Epub ahead of print].

- Jacobs ET**, Thomson CA, Flatt SW, Al-Delaimy W, Hibler EA, Jones LA, LeRoy EC, Newman VA, Parker BA, Rock CL, Pierce JP. Vitamin D and breast cancer recurrence in the Women's Healthy Eating and Living Study. *Am J Clin Nutr*. 2011 Jan; 93(1):108-17.
- Jacobs ET**, Martínez ME, Campbell PT, Conti DV, Duggan D, Figuerido JC, Haile RW, LeRoy EC, Poynter JN, Thompson PA, Baron JA. Genetic variation in the retinoid X receptor and calcium sensing receptor, and odds of colorectal cancer in the Colon Cancer Family Registry. *Carcinogenesis*. 2010 Aug;31(8):1412-6.
- Hibler, EA, Hu C, Egan JB, Jurutka PW, LeRoy EC, Martínez ME, Thompson PA, **Jacobs ET**. Association between polymorphic variation in VDR and RXRA with circulating levels of vitamin D metabolites. *J Steroid Biochem Mol Biol*. 2010 Jul;121(1-2):438-41.
- Jacobs ET**, Campbell PT, Ulrich CM, Figueiredo JC, Poynter JN, McLaughlin JR, Haile RW, Jacobs EJ, Newcomb PA, Potter JD, Le Marchand L, Green RC, Parfrey P, Younghusband HB, Cotterchio M, Gallinger S, Jenkins MA, Hopper JL, Baron JA, Thibodeau SN, Lindor NM, Limburg PJ, Martínez ME. Associations between excess body weight and colorectal cancer risk in the Colon-Cancer Family Registry: Overall and by microsatellite instability status. *J Natl Cancer Inst*. 2010 Mar 17;102(6):391-400.
- Egan JB, Thompson PA, Ashbeck EL, Conti D, Duggan D, Hibler EA, Jurutka PW, LeRoy EC, Martínez ME, Mount D, **Jacobs ET**. Genetic variation in VDR and RXR and risk for colorectal adenoma recurrence. *Cancer Res*. 2010 Feb 15;70(4):1496-504.
- Poynter JN, **Jacobs ET**, Figueiredo JC, Lee, DW, Conti DV, Levine AJ, Duggan D, Campbell PT, Baron JA, Haile RW for the Colon Cancer Family Registry. Genetic variation in the vitamin D receptor (*VDR*) and the vitamin D binding protein (*GC*) and risk of colorectal cancer: Results from the Colon Cancer Family Registry. *Cancer Epidemiol Biomarkers Prev*. 2010 Feb;19(2):525-36.
- Egan JB, Thompson PA, **Jacobs ET**, Vitanov M, Haussler MR, Gerner EW, Jurutka PW. Vitamin D and APC modulate molecular crosstalk between b-catenin/wnt signaling and the vitamin D receptor in colon cells. *Mol Carcinog*. 2010 Apr;49(4):337-52.
- Thompson PA, Wertheim BC, Roe DJ, Ashbeck EL, **Jacobs ET**, Lance P, Martínez ME, Alberts DS. Gender modifies the effect of ursodeoxycholic acid in a randomized controlled trial in colorectal adenoma patients. *Cancer Prev Res (Phila Pa)*. 2009 Dec;2(12):1023-30. Epub 2009 Dec 1.

- Benuzillo JG, **Jacobs ET**, Hoffman RM, Height RI, Lance P, Martinez ME. Colorectal cancer screening capacity in Arizona. *Journal of Community Health*, Sept 2, 2009 [Epub ahead of print]
- Wertheim BC, Martinez ME, Ashbeck EL, Roe DJ, **Jacobs ET**, Alberts DS, Thompson P PA. Physical activity as a determinant of fecal bile acid levels. *Cancer Epidemiol Biomarkers Prev*. 2009 May;18(5):1591-8.
- Ashbeck EL, **Jacobs ET**, Martínez ME, Gerner EW, Lance P, Thompson PA. Components of metabolic syndrome and metachronous colorectal neoplasia. *Cancer Epidemiol Biomarkers Prev*. 2009 Apr;18(4):1134-43.
- Jacobs ET**, Jurutka PW, Martínez ME, Alberts DS. Vitamin D, calcium and colorectal neoplasia: new insights for apoptosis. *Cancer Prev Res* 2009 Mar;2(3):197-9.
- Jacobs ET**, Ahnen DJ, Ashbeck EL, Baron JA, Greenberg ER, Lance P, Lieberman D, McKeown-Eyssen G, Schatzkin A, Thompson PA, Martinez ME. Association between body mass index and metachronous colorectal adenomas: A pooling project. *Am J Epidemiol*. 2009 Jan 15 [epub ahead of print]
- Martínez ME, Baron JA, Lieberman D, Schatzkin A, Lanza E, Winawer SJ, Zauber AG, Jiang R, Ahnen DJ, Bond JH, Church TR, Robertson DJ, Smith-Warner SA, **Jacobs ET**, Alberts DS, Greenberg ER. Advanced Colorectal Neoplasia Diagnosed During Surveillance Following Colonoscopic Polypectomy: A Pooled Analysis. *Gastroenterology*. 2009 Mar;136(3):832-41. Epub 2008 Dec 9.
- Egan JE, **Jacobs ET**, Martínez ME, Gerner EW, Jurutka PW, Thompson PA. Presence of a TA haplotype in the APC gene containing the common A-T at 1822 polymorphism and colorectal adenoma. *Cancer Research* 2008 Jul 15;68(14):6006-13.
- Reid ME, Duffield-Lillico AJ, Slate E, Natarajan N, Turnbull B, **Jacobs ET**, Combs GF, Alberts DS, Clark LC, Marshall JR. The Nutrition Prevention of Cancer: 400 Mcg Per Day Selenium Treatment. *Nutr Cancer*. 2008 Mar-Apr;60(2):155-63.
- Jacobs ET**, Alberts DS, Foote JA, Green SB, Hollis BW, Yu Z, Martínez ME. Vitamin D Deficiency in Southern Arizona. *Am J Clin Nutr*. 2008 Mar;87(3):608-13.
- Jacobs ET**, Martínez ME, Alberts DS, Ashbeck EL, Gapstur SM, Thompson PA. IGF-I is Inversely Associated with Colorectal Adenoma Recurrence. *Cancer Epidemiol Biomarkers Prev*. 2008 Feb;17(2):300-5. Epub 2008 Feb 4.
- Jacobs ET**, Thompson PA, Martínez ME. Diet, Gender, and Colorectal Neoplasia. *Journal of Clinical Gastroenterology*, 2007; 41 (8): 731-746.

- Jacobs ET**, Martínez ME, Alberts DS, Jiang R, Lance P, Lowe KA, Thompson PA. Association Between Body Size and Colorectal Adenoma Recurrence, *Clinical Gastroenterology and Hepatology*. 2007; 5 (8): 982-90.
- Martínez ME, **Jacobs ET**, Ashbeck EL, Sinha R, Lance MP, Alberts DS, Thompson PA. Meat Intake, Preparation Methods, Mutagens and Colorectal Adenoma Recurrence. *Carcinogenesis*. 2007; August 8 epub ahead of print.
- Jacobs ET**, Alberts DS, Benuzillo J, Hollis B, Thompson PA, Martínez ME. Serum 25(OH)D Levels and Risk of Colorectal Adenoma Recurrence. *J Steroid Biochem Mol Biol* 2007; 103 (3-5): 752-756.
- Martínez ME, Thompson PA, **Jacobs ET**, Giovannucci E, Jiang R, Klimecki W, Alberts DS. Dietary Factors and Biomarkers Involved in the Methylene-tetrahydrofolate Reductase Genotype-Colorectal Adenoma Pathway. *Gastroenterology* 2006; 131(6): 1706-16.
- Einspahr JG, Martínez ME, Jiang R, Hsu, C-H, Bhattacharya AK, Ahnen DJ, **Jacobs ET**, Houlihan PS, Webb CR, Alberts DS, Hamilton SR. Associations of Ki-ras proto-oncogene mutation and p53 overexpression in sporadic colorectal adenomas with demographic and clinicopathologic characteristics. *Cancer Epidemiol Biomarkers Prev* 2006; 15(8); 1443-1450.
- Martinez ME, Giovannucci E, Jiang R, Henning SM, **Jacobs ET**, Thompson P, Smith-Warner, SA, Alberts D. Folate fortification, plasma folate, homocysteine and colorectal adenoma recurrence. *Int J Cancer* 2006; 119(6): 1440-1446.
- Jacobs ET**, Lanza E, Alberts DS, Hsu C-H, Jiang R, Schatzkin A, Thompson PA, Martínez ME. Fiber, gender, and colorectal adenoma: Results of a pooled analysis. *Am J Clin Nutr* 2006; 83:343-349.
- Nelson MA, Goulet AC, **Jacobs ET**, Lance P. Studies into the Anticancer Effects of Selenomethionine against Human Colon Cancer. *Ann N Y Acad Sci*. 2005; 1059: 26-32.
- Jacobs ET**, Haussler MR, Martínez ME. Vitamin D Activity and Colorectal Neoplasia : A Pathway Approach to Epidemiologic Studies. *Cancer Epidemiol Biomarkers Prev* 2005; 14 (9): 2061-2063.
- Jacobs ET**, Jiang R, Alberts DS, Greenberg R, Gunter EW, Karagas MR, Lanza E, Ratnasinge L, Reid ME, Schatzkin A, Smith-Warner SA, Wallace K, Martínez ME. Selenium and Colorectal Adenoma: A Pooling Project. *J Natl Cancer Inst* 2004; 96: 1669-1675.
- Jacobs ET**, Giuliano AR, Martínez ME, Hollis BW, Reid ME, Marshall JR. Plasma levels of 25-Hydroxyvitamin D, 1,25-Dihydroxyvitamin D and the Risk of Prostate Cancer. *J Steroid Biochem Mol Biol* 2004; 89-90: 533-537.

Jacobs, ET, Giuliano AR, Roe DJ, Guillén-Rodríguez JM, Hartz VL, Whitacre RC, Alberts DS, Martínez ME. Dietary Change in an Intervention Trial of Wheat Bran Fiber and Colorectal Adenoma Recurrence. *Ann Epidemiol* 2004; 14(4): 280-286.

Duffield-Lillico AJ, Dalkin BL, Reid ME, Turnbull BW, Slate EH, **Jacobs ET**, Marshall JR, and Clark LC for the NPC Study Group. Selenium supplementation, baseline plasma selenium status, and incidence of prostate cancer: an analysis of the complete treatment period of the NPC Trial. *Br J Urol Int* 2003; 91: 608-612.

Jacobs, ET, Giuliano AR, Roe DJ, Guillén-Rodríguez JM, Alberts DS, Martínez ME. Baseline Dietary Fiber Intake and Colorectal Adenoma Recurrence in the Wheat Bran Fiber Trial. *J Natl Cancer Inst* 2002; 94: 1620-1625.

Jacobs, ET, Giuliano AR, Roe DJ, Guillén-Rodríguez JM, Hess MA, Alberts DS, Martínez ME. Intake of Supplemental and Total Fiber and Risk of Colorectal Adenoma Recurrence in the Wheat Bran Fiber Trial. *Cancer Epidemiol Biomarkers Prev* 2002; 11: 906-914.

Nelson MA, Porterfield BW, **Jacobs ET**, Clark, LC. Selenium and prostate cancer prevention. *Semin Urol Oncol* 1999; 17: 91-96.

Clark LC, **Jacobs ET**. Environmental selenium and cancer: risk or protection? *Cancer Epidemiol Biomarkers Prev* 1998; 7: 847-848.

Morre DM, Wang S, Chueh PJ, Lawler J, Safranski K, **Jacobs E**, Morre DJ. A molecular basis for retinal stimulation of vesicle budding in vivo and in vitro. *Mol Cell Biochem* 1998; 187: 73-83.

Morre DJ, **Jacobs E**, Sweeting M, deCabo R, Morre DM. A protein disulfide-thiol interchange activity of HeLa plasma membranes inhibited by the antitumor sulfonylurea N-(4-methylphenylsulfonyl)-N'-(4-chlorophenyl) urea (LY181984). *Biochimica et Biophysica Acta* 1997; 1325:117-25.

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Other Publications

Jacobs ET, Scragg R. Invited review. Vitamin D and Health: An Overview. Complete Nutrition Australasia, June 1, 2008.

Martinez ME, **Jacobs ET**. Calcium Supplementation and prevention of colorectal neoplasia: lessons from clinical trials. 2007; J Natl Cancer Inst 99(2): 99-100.

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Duffield-Lillico AJ, **Jacobs ET**, Dalkin BL, Marshall JR. The prevention of prostate cancer with selenium: addressing the issues! The Bulletin of Selenium-Tellurium Development Association, 2000.

WORK IN PROGRESS

In Preparation

Sardo CL, **Jacobs ET**, Kitzmiller J, Apseloff G, Harris RB, Roe DL, Stoner GD. Reducing Postprandial Inflammation with Black Raspberries: A Pilot Study in Older Obese and Overweight Males. Am J Therapeutics, submitted April 2013.

Sardo CL, Hibler EA, Roe DL, Harris RB, Thomson CA, Cisneroz M, Thompson PA, Martinez ME, **Jacobs ET**. Sedentary behavior is associated with colorectal adenoma recurrence. International Journal of Cancer, submitted June 2013.

Hibler EA, **Jacobs ET**, Dampf Stone A, Sardo CL, Jurutka PW. Vitamin D binding protein variation is associated with circulating 25(OH)D levels and vitamin D metabolite uptake in colon cancer cells. In preparation.

Haenchen S., **Jacobs ET**, Pottinger H, Ralston-King J, Oren E, Ernst KC. Physician beliefs regarding vaccine exemption protocols. In preparation.

MEDIA

"Vaccine Billboard Misleads", Arizona Daily Star, March 21, 2013

"Cancer Fighters", 104.1 FM Radio, Tucson, AZ, February 20, 2013

"Vaccine Exemptions", KTAR Radio, Phoenix, AZ, December 13, 2012.

"Vaccine Exemptions", Arizona Republic, Phoenix, AZ, December 13, 2012.

"Dietary Supplements and Cancer Prevention, KOLD, Tucson, AZ, July 12, 2012.

"Dietary Supplements and Cancer Prevention", KVOA, Tucson, AZ, May 9, 2012

"Dietary Supplements: Weighing Benefits and Harm", Arizona Daily Star, May 2, 2012
"Vaccination Exemptions", Mike Stobbe, Associated Press, November 2011.
"Chickenpox Parties", KOMO, Seattle, WA, November 7, 2011.
"Vaccination Exemptions", CBS5, Phoenix, AZ, October 29, 2011
"Chickenpox Parties" CBS5, Phoenix, AZ, October 28, 2011
"Vaccination Exemptions", Arizona Republic, October 23, 2011
"Vaccination Exemptions", Cronkite News Service, Phoenix, AZ, September 22, 2011
"Parents Opting out of Vaccination", ABC15, Phoenix, AZ, September 15, 2011
"Researchers Probe Drop in Vaccinations", Arizona Public Media, Tucson, AZ August 23, 2011
"Vitamin D", Interview, NPR, December 2010
"Vitamin D and Cancer" Interview, KVOA news, March 2010
"The Epidemic of Obesity", Interview, NPR, September 2009.
"Vitamin D and Cancer", Interview, KUAT news, June 2008.
"Fiber and Colorectal Cancer", Interview, Medstar, April 2007.
"Vitamin D and Pancreatic Cancer", Interview, KUAT news, October 2006.
"Vitamin D and Sun Exposure", Interview, KOLD Channel 13 News, June 2006.
"Selenium and Colorectal Neoplasia", Interview, *Alternative Medicine*, February 2005
"Selenium and Colorectal Neoplasia", Interview, HealthDay, 2004
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SCHOLARLY PRESENTATIONS

Jacobs ET. "Journey to the Center of the K: Transitioning from NIH K-Awards to R-Awards. Invited Speaker, American Society of Preventive Oncology (ASPO) Annual Meeting. Memphis, TN. March 9-12, 2013.

Jacobs ET. Vitamin D and Cancer Prevention. Invited Speaker, American Association for Cancer Research (AACR) Annual Meeting. Orlando, FL. April 2-6, 2011.

Jacobs ET. Vitamin D Status as a Measure of Chronic Disease Risk. Invited Speaker, American Association for Cancer Research (AACR) Science of Health Disparities Meeting. Miami, FL, September 30-October 3, 2010.

Jacobs ET. Vitamin D: An Overview. Invited Speaker, Southwest Oncology Group Melanoma Committee. San Francisco, CA, April 16, 2010.

Jacobs ET. Vitamin D and Colorectal and Breast Cancer. Invited Speaker, Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, September 9, 2009.

Jacobs ET. Body Size and Colorectal Neoplasia. Invited Speaker, Transdisciplinary Research on Energetics and Cancer (TREC) Center, University of Southern California, Los Angeles, CA, June 12, 2009.

Jacobs ET. Vitamin D and Risk for Colorectal and Breast Cancer. Sidney E. Salmon Distinguished Junior Investigator Award Lecture. Arizona Cancer Center, May 8, 2009.

Jacobs ET. Vitamin D and Colorectal Cancer. Invited Speaker, 5th Annual Nutrition and Health Conference. Phoenix, Arizona, April 16, 2008.

Jacobs ET. Vitamin D and Colorectal Cancer. Invited Speaker, University of Auckland. Auckland, New Zealand, February 15, 2008.

Jacobs ET. Plasma IGF-I is Inversely Associated with Colorectal Adenoma Recurrence. Invited Speaker for the American Association for Cancer Research (AACR) Annual Frontiers in Cancer Prevention Research Conference. Philadelphia, PA, December 6, 2007.

Martínez ME, **Jacobs ET**, Thompson PA. Colorectal Cancer DataBlitz. Invited Speakers for Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, January 2007.

Jacobs ET, Foote J. Are We Risking Our Guts to Save Our Skin? Invited speakers for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, October 2006.

Jacobs ET. Vitamin D and Colorectal Adenoma Recurrence. Invited speaker for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, May 2006.

Jacobs ET, Martínez ME. Selenium and Colorectal Neoplasia: A Pooling Project. Invited speaker for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, February 2004.

Jacobs ET. Vitamin D, Vitamin D Receptor Polymorphisms, and Risk of Prostate Cancer. Invited speaker for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, February 2003.

Jacobs ET, Lillico AJ, Reid ME, Marshall JR. Selenium and Glaucoma in the Nutritional Prevention of Cancer Trial. Invited speaker for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, May 2002.

Jacobs ET. Effect of a Cereal Fiber Intervention on Nutrient Intake and Adenoma Recurrence in the Wheat Bran Fiber Trial. Invited speaker for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, October 2002.

Jacobs ET. 1,25-Dihydroxyvitamin D and Risk of Prostate Cancer. Invited speaker for the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, February 1999.

ABSTRACTS

Golenko C, McCotter O, Ernst KC, Jacobs ET, Erhart L. “Enhancing Respiratory Infection Surveillance on the Arizona-Sonora Border—BIDS Program Sentinel Surveillance Data.” *Border Binational Disease Conference*, Austin TX, May 2012.

Haussler MR, Haussler CA, Egan JB, Jacobs ET, Hsieh JC, Bartik L, Kaneko I, Whitfield GK, Jurutka PW. The Vitamin D Receptor: The Fountain of Youth in Cancer Prevention. 4th Symposium Vitamin D and Analogs in Cancer Prevention and Therapy. Homburg, Germany, May 21-22, 2011.

Jacobs ET, Martínez ME, Buckmeier JA, Lance P, May M, Thompson PA, Jurutka PW. Circulating FGF-23 is associated with metachronous colorectal adenoma. American Association for Cancer Research (AACR) Annual Frontiers in Cancer Prevention Research Conference. Philadelphia, PA, November 5-7, 2010.

Jacobs ET, Thomson CA, Flatt SW, Al-Delaimy W, Hibler EA, Jones LA, LeRoy EC, Newman VA, Parker BA, Rock CL, Pierce JP. Vitamin D and breast cancer recurrence in the Women’s Healthy Eating and Living Study. American Institute for Cancer Research Food, Nutrition, Physical Activity and Cancer Conference, Washington, D.C., October 20-22, 2010.

Physical activity and circulating concentrations of vitamin D metabolites. AACR Frontiers in Cancer Prevention, Houston, Texas, December 5, 2009.

Polymorphic variation in RXRA and VDR and circulating concentrations of vitamin D metabolites. 14th Workshop on Vitamin D, Bruges, Belgium, October 7, 2009.

Polymorphic variation in RXRA and VDR and odds for colorectal neoplasia. 14th Workshop on Vitamin D, Bruges, Belgium, October 7, 2009.

Dietary vitamin D intake is inversely associated with breast cancer recurrence among premenopausal women. 14th Workshop on Vitamin D, Bruges, Belgium, October 5, 2009.

Physical activity and colorectal adenoma recurrence, American Association for Cancer Research (AACR) Science of Health Disparities Meeting, Carefree, Arizona, February 3-6, 2009.

Genetic variation in VDR, RXR, and CaSR and risk for colorectal neoplasia. American Association for Cancer Research (AACR) Candidate Pathways, Whole Genome Scans Meeting. Carefree, Arizona, May 20-23, 2008.

Vitamin D and APC Modulate Molecular Crosstalk Between B-catenin/Wnt Signaling and the Vitamin D Receptor in Colon Cancer Cells. American Association for Cancer Research (AACR) Annual Meeting. San Diego, California, April 12-16, 2008.

Genetic variation in the IGF axis and colorectal cancer risk: a discordant sibship study. American Association for Cancer Research (AACR) Annual Meeting. San Diego, California, April 12-16, 2008.

Vitamin D and APC Modulate Molecular Crosstalk Between B-catenin/Wnt Signaling and the Vitamin D Receptor in Colon Cancer Cells. American Association for Cancer Research (AACR) Annual Frontiers in Cancer Prevention Research Conference. Philadelphia, PA, December 5-8, 2007.

Predictors of Serum 25(OH)D Vary by Race/Ethnicity, American Society for Preventive Oncology 31st Annual Meeting, Houston, TX, March 2-4, 2007.

Vitamin D Deficiency in Southern Arizona, American Society of Bone and Mineral Research Special Conference on Contemporary Diagnosis and Treatment of Vitamin D-Related Disorders, Arlington, VA, December 4-5, 2006.

A Predictive Model of 25(OH)D and Colorectal Adenoma Recurrence, AACR Frontiers in Cancer Prevention Conference, Boston, MA, November 12-15, 2006.

Aspirin Use and Gender Differences in Colorectal Adenoma Recurrence, 2nd North American Congress of Epidemiology, Seattle, WA, June 21-24, 2006.

Relationship Between Markers of Folate Status and Bone Mineral Density Among Individuals with Colorectal Adenomatous Polyps. 2nd North American Congress of Epidemiology, Seattle, WA, June 21-24, 2006.

Vitamin D and Colorectal Cancer. 2nd North American Congress of Epidemiology, Seattle, WA, June 21-24, 2006.

Interactions between PPAR- γ genotypes and Traits of Metabolic Syndrome on Risk of Recurrence for Colorectal Adenomatous Polyps. 2nd North American Congress of Epidemiology, Seattle, WA, June 21-24, 2006.

Predictors of Serum 25(OH)D Levels and Colorectal Adenoma Recurrence. 13th Annual Workshop on Vitamin D. Victoria, British Columbia, Canada. April 7-12, 2006.

Lifestyle and Genetic Determinants of IGF-1 as Risk Factors for Advanced Colorectal Neoplasia. Breast and Colon Cancer Family Registry Biannual Meeting. Bethesda, MD. December 2-7, 2005.

Vitamin D Receptor Polymorphisms and Risk of Prostate Cancer. American Society for Bone and Mineral Research 26th Annual Meeting. Seattle, Washington. Abstract #339, October 1-5, 2004.

Insulin Resistance (IR) Syndrome, PPAR, and Overweight/Obesity Status Among Individuals with Colorectal Adenomatous Polyps. American Association for Cancer

Research (AACR) 3rd Annual Frontiers in Cancer Prevention Research Conference. Seattle, Washington. Abstract # C103, October 16-20, 2004.

Plasma levels of 25-hydroxyvitamin D, 1,25-dihydroxyvitamin D and the risk of prostate cancer. American Association for Cancer Research (AACR) 2nd Annual Frontiers in Cancer Prevention Research Conference. Phoenix, Arizona, Abstract # 1513, October 26-30, 2003.

FokI Vitamin D Receptor Polymorphism and Risk of Prostate Cancer. American Association for Cancer Research (AACR) SNPs, Haplotypes, and Cancer: Applications in Molecular Epidemiology. Key Biscayne, Florida, Abstract # 3295, September 13-17, 2003.

Plasma levels of 25-hydroxyvitamin D, 1,25-dihydroxyvitamin D and the risk of prostate cancer. 12th Workshop on Vitamin D, Maastricht, The Netherlands, Abstract # 145, July 6-10, 2003.

Selenium and chemoprevention against prostate cancer: an update of the Nutritional Prevention of Cancer results. Proceedings of the American Association for Cancer Research (AACR) 92nd Annual Meeting, New Orleans, LO, Vol. 42 Abstract #2478, March 24-28, 2001.

Selenium and chemoprevention against prostate cancer: an update of the Clark results. Proceedings of the 7th International Symposium on Selenium in Biology and Medicine, Venice, Italy, Abstract #105, October 1-5, 2000.

GRANTS AND CONTRACTS

Active

Source of Funds: NCI, R01 Research Project Grant
Funding Period: 07/01/08-06/30/11
Title of Research: Serum 25(OH)D, intake of vitamin D, and breast cancer recurrence in the WHEL study
Role on Project: Principal Investigator
% Effort: 20% effort
Total Award: \$150,000 (year 1)
Period of time: 3 years

The major goals of this project are to determine whether circulating levels of 25(OH)D or vitamin D intake are related to breast cancer recurrence within the WHEL study.

Source of Funds: NCI, R01 Research Project Grant
Funding Period: 03/01/10-02/28/15
Title of Research: Vitamin D Status, Genetic Variation in Vitamin D Signaling and Metabolism, and Risk for Colorectal Neoplasia
Role on Project: Co-Principal Investigator

% Effort: 20% effort
Total Award: \$351,287 (year 1)
Period of time: 5 years

The major goals of this project are to determine whether circulating levels of 25(OH)D are associated with colorectal adenoma recurrence, by colorectal sub-site and gender, and to elucidate the functional effects of genetic variation in genes involved in the vitamin D pathway. Further, potential mechanisms of action of vitamin D via the wnt signaling pathway will be explored.

Complete

Source of Funds: NCI, R03 Small Grants in Epidemiology
Funding Period: 07/01/04-06/30/06
Title of Research: Fiber and Adenoma Recurrence: A Pooling Project
Role on Project: Principal Investigator
% Effort: 20% effort
Total Award: \$50,000 (year 1)
Period of time: 2 years

The major goals of this project are to conduct pooled analyses of the Wheat Bran Fiber and Polyp Prevention trials to determine if fiber had an effect on subgroups.

Source of funds: Technology and Research Initiative Fund (TRIF)
Funding Period: 01/01/07-12/31/09
Title of Research: Evaluating the Role of VDR Polymorphisms and beta-Catenin Signaling in Colorectal Adenoma Risk
Role on Project: Co-investigator
Person/months: 0.24 calendar (no salary)
Total Award: 20,000 (Year 1)
Period of Time: 2 years

The major goal of this project is to assess whether VDR interacts with beta catenin, and whether this interaction is affected by APC.

Source of Funds: NCI, K07 Cancer Prevention, Control, and Population Sciences Development Award
Funding Period: 02/01/05-07/01/10 (no-cost extension)
Title of Research: VDR Variants, Nutrient Intakes, and Adenoma Recurrence
Role on Project: Principal Investigator
% Effort: 75% effort
Total Award: \$92,234 (year 5)
Period of time: 5 years

The major goals of this project are to investigate the relationship between the intake of Vitamin D, calcium, and fat on colorectal adenomas, and to further explore the influence of Vitamin D Receptor polymorphisms on these relationships.

Source of funds: Gastrointestinal Spore Pilot Grant
Funding Period: 01/01/08-06/15/10 (no cost extension)
Title of Research: Functional Effects of Genetic Variation in Enzymes of Metabolism and Catabolism of 1,25-(OH)₂D₃
Role on Project: Co-Principal Investigator with Peter Jurutka, Ph.D.
Person/months: 0.24 calendar (no salary)
Total Award: 30,000 (year 1)
Period of Time: 1 year, with option for renewal

The major goal of this project is to determine whether genetic variation in enzymes related to metabolism and catabolism of the active form of vitamin D affects function of the enzymes.