**CURRICULUM VITAE**

**ROBERD ("ROBIN") MANER BOSTICK, M.D., M.P.H.**

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**FAMILY STATUS:** Married, two children

**EDUCATION:** Master of Public Health in Epidemiology, 1990, School of Public Health, University of Minnesota, Minneapolis, MN.

Doctor of Medicine, 1976, Medical University of South Carolina, Charleston, SC.

Bachelor of Science (*Magna Cum Laude*) in Liberal Arts, 1973, Wofford College, Spartanburg, SC.

**TRAINING:** Fellow in Academic Medicine and Clinical Investigation, Department of Family Practice and Community Health, Medical School, University of Minnesota, July 1, 1988 to June 30, 1990. This was a two-year, full-time faculty development fellowship emphasizing research training, but including training in education and administration while allowing maintenance of clinical skills.

Resident in Family Practice, The Medical University of South Carolina, Charleston, SC, July 1, 1976 to June 30, 1979 (Chief Resident & Instructor, July 1, 1978 to June 30, 1979).

**PROFESSIONAL**

**LICENSURE:** Georgia License to Practice Medicine and Surgery # (available upon request)

South Carolina License to Practice Medicine & Surgery # (available upon request)

Drug Enforcement Administration # (available upon request)

National Provider Identifier # (available upon request)

**AWARDS AND**

**HONORS:** Georgia Cancer Coalition Distinguished Cancer Scholar, 2005.

Who’s Who in the World, 2000 - present.

Elected to Delta Omega Society, Honorary Society in Public Health, 1995.

International Who’s Who in Medicine, 1995 - present.

Who’s Who in Science and Engineering, 1995 - present.

1994 Merck/Society for Epidemiologic Research Clinical Epidemiology Fellowship Award.

Society of Teachers of Family Medicine Foundation 1992 New Faculty Orientation Award.

Lester Breslow Scholar Award for Academic Excellence in Health Promotion/Disease Prevention, 1990, School of Public Health, Division of Epidemiology, University of Minnesota.

Diplomate, American Board of Family Practice # (available upon request). Certified 1979; recertified 1985, 1991, 1997, 2003.

Fellow, American Academy of Family Practice, 1979 to present.

Chief Resident and Instructor, Department of Family Medicine, The Medical University of South Carolina, July 1, 1978 to June 30, 1979.

Diplomate, National Board of Medical Examiners, # (available upon request).

Alpha Omega Alpha Honor Medical Society, The Medical University of South Carolina.

Phi Beta Kappa, Beta of South Carolina at Wofford College.

Blue Key National Honor Fraternity, Wofford College.

**ACADEMIC**

**APPOINTMENTS:** Professor Emeritus, Department of Epidemiology, Rollins School of Public Health, Emory University, January 1, 2022 to present.

Professor, Department of Epidemiology, Rollins School of Public Health, Emory University, November 2, 2003 to December 31, 2021.

Professor (Joint), Department of Hematology and Medical Oncology, School of Medicine, Emory University, November 2, 2003 to December 31, 2021.

Graduate Faculty, Laney Graduate School of Arts and Sciences, Nutrition Health Sciences Program, Emory University, 2005 to December 31, 2021.

Graduate Faculty, School of Medicine, Medical Scientist Training Program (MD-PhD), Emory University, 2005 to December 31, 2021.

Program Leader, Cancer Prevention & Control, Winship Cancer Institute (P30 CA138292), Emory University, 2008 to 2015.

Professor (Adjunct), Department of Family and Preventive Medicine, School of Medicine, University of South Carolina, January 1, 2004 to December 31, 2007.

Professor, Department of Family and Preventive Medicine, School of Medicine, University of South Carolina, July 1, 1998 to October 31, 2003.

Professor (Joint), Department of Epidemiology and Biostatistics, School of Public Health, University of South Carolina, July 1, 1998 to October 31, 2003.

Graduate Faculty, University of South Carolina, 1998 to October 31, 2003.

Director, Division of Population Sciences, South Carolina Cancer Center, University of South Carolina, July 1, 1998 to October 31, 2003.

Associate Professor, Department of Public Health Sciences - Epidemiology, The Bowman Gray School of Medicine, Wake Forest University, September 1, 1994 to June 16, 1998.

Associate Professor (Joint), Department of Family and Community Medicine, The Bowman Gray School of Medicine, Wake Forest University, September 1, 1994 to June 16, 1998.

Graduate Faculty, Department of Public Health Sciences, The Bowman Gray School of Medicine, Wake Forest University, February 3, 1995 to June 16, 1998.

Program Leader, Cancer Epidemiology and Prevention, Comprehensive Cancer Center of Wake Forest University, September, 1994 to June 16, 1998.

Assistant Professor, Department of Family Practice and Community Health, School of Medicine, University of Minnesota, July 1, 1990 to August 31, 1994.

Assistant Professor (Joint), Division of Epidemiology, School of Public Health, University of Minnesota, July 1, 1990 to August, 1994.

Associate Graduate Faculty, Department of Family Practice and Community Health, School of Medicine, University of Minnesota, May, 1991 to August, 1994.

Associate Graduate Faculty, Division of Epidemiology, School of Public Health, University of Minnesota, November, 1990 to August, 1994.

Full Member, University of Minnesota Cancer Center, 1992-1994

Clinical Assistant Professor, Department of Family Medicine, The Medical University of South Carolina, 1979-1981.

**HOSPITAL**

**APPOINTMENTS:** Palmetto Richland Memorial Hospital, Columbia, SC, 1998 to 2004.

Department of Family Practice, 1998 to 2004

Oncology Committee, 1998 to 2003

Oncology Services Education/Prevention/Support Committee, 1998 to 2003

Tumor Registry Scientific Advisory Committee, 1998 to 2003

Scientific Review Committee, 1998 to 2003

North Carolina Baptist Hospital, Winston-Salem, NC, 1994 to 1998.

The University of Minnesota Hospital and Clinics, Minneapolis, MN,

1991 to 1994.

North Memorial Medical Center, Robbinsdale, MN, 1990 to 1994.

Beaufort Memorial Hospital, Beaufort, SC, Active Staff, 1982 to 1988.

Chairman, Department of Family Practice 1984 to 1988.

Medical Staff Executive Committee 1985 to 1988 (Chief-of-Staff-Elect at time of relocation).

Other Committee Activity: Medical Services, Credentials, Nursery/Pediatric, Obstetrics, Pharmacy and Therapeutics, Capital Equipment.

Roper Hospital, Charleston, SC, Active Staff, 1979 to 1981.

St. Francis Xavier Hospital, Charleston, SC, Active Staff, 1979 to 1981.

**NURSING HOME**

**AFFILIATION:** Bay View Nursing Home, Beaufort, SC, 1982 to 1988.

**PROFESSIONAL**

**MEMBERSHIPS:** American Association for Cancer Research

Molecular Epidemiology Group

American Society of Preventive Oncology

American Association for the Advancement of Science

American Society for Nutrition

American Academy of Family Practice

Georgia Academy of Family Practice

**WORK:** Emory University, November 2, 2003 to December 31, 2021 (see Academic Appointments). Effort includes research in the etiology and primary prevention of colon and other cancers, and teaching epidemiologic research methods, grant writing, scientific writing, and cancer and molecular epidemiology to graduate students and post-doctoral fellows.

University of South Carolina, July 1, 1998 to October 31, 2003 (see Academic Appointments). Effort included an administrative role as Director of Population Sciences for the South Carolina Cancer Center, a joint effort of the University of South Carolina and Palmetto Richland Memorial Hospital; research in the etiology and primary prevention of colon and other cancers; direct patient care and clinical teaching in Family Medicine; and teaching research methods and cancer and molecular epidemiology to medical students, residents, fellows, and graduate students.

The Bowman Gray School of Medicine, Wake Forest University, 1994 to 1998 (see Academic Appointments). The work with the Comprehensive Cancer Center involved a leadership role in promoting and coordinating cancer epidemiology and prevention research and other activities at Bowman Gray School of Medicine. The work in Public Health Sciences - Epidemiology was in research in the etiology and prevention of colon and other cancers, and in teaching research methods and cancer epidemiology to junior faculty, fellows, medical students, and graduate and postgraduate students. The Family Practice work included direct patient care and clinical teaching.

The University of Minnesota, Minneapolis, MN, July 1, 1990 to August 31, 1994 (see Academic Appointments). The Family Practice work included direct patient care, clinical teaching, teaching research, and coordinating the department research program. The work in Epidemiology was in colon cancer research and teaching basic epidemiology to graduate students.

Beaufort Family Medicine, P.A., 151 Ribault Square Office Park, Beaufort, SC, 29902, 1982 to 1988. This was a solo Family Practice office providing full range family practice services, including obstetrics.

East Cooper Family Practice, 913 Bowman Road, Mount Pleasant, SC, 29464, 1979 to 1981. This was a four-man family practice group. This practice was heavily involved in occupational medicine, but did not include obstetrical services. The practice was computerized in cooperation with the Department of Family Medicine of the Medical University of South Carolina, Charleston, SC. The practice also provided part-time attending services in the Family Medicine Residency Program in Charleston, as well as precepting for family medicine residents and medical students. The other physicians in the group were J. Roger Rowe, M.D., F. Strait Fairey, M.D., and Hugh S. Shearin, M.D.

**ACADEMIC**

**INTERESTS:** My general interest is in the role of modern diet and lifestyle characteristics in the etiology and prevention of modern diseases and disorders. My particular focus is on understanding the etiology and primary prevention of colorectal cancer, with an emphasis on the role of diet and nutrition and physical activity and the development, validation, and application of treatable, early biomarkers of risk for the disease.

I am most recognized for my work on investigating the potential roles of higher amounts of calcium intakes and vitamin D exposures in reducing risk for colorectal cancer; the development of modifiable biomarkers of risk for colorectal cancer from simple office rectal biopsies and blood samples; and investigations into the roles of oxidative balance and inflammation, as well as other dietary (nutrients and patterns) and lifestyle factors, alone or in interaction with genetic factors, in reducing risk for colorectal and other cancers. My current work includes the development of evolutionary concordance, oxidative balance, inflammation, and other diet and lifestyle exposure scores; polygenic risk scores that may modify the associations of the diet and lifestyle scores with biomarkers of oxidative stress and inflammation, and with colorectal neoplasms; and identifying correlates of our modifiable tissue-based biomarkers of risk for colorectal cancer with more easily measured biomarkers in surrogate fluids (*e.g.*, blood, urine).

**GRANT SUPPORT**

**OBTAINED:** 1.Title: Calcium and Colorectal Epithelial Cell Proliferation (pilot study)

Funding source(s): BRSG, $14,618

Summary: This pilot project was a randomized, double-blind, placebo-controlled clinical trial (n = 21) designed to assess calcium in amounts greater than the RDA as protective against colorectal neoplasia. It used as its endpoint colorectal epithelial cell proliferation, which was also further assessed as a biomarker or precursor lesion for colorectal neoplasia.

Period of funding: 1989 - 1991

Role in project: PI

2. Title: Calcium and Colorectal Epithelial Cell Proliferation (full scale study) (R01 CA51932)

Funding source(s): NCI, $733,706 direct costs.

Summary: This was the full-scale version of project 1. This project was expanded in design to a three-armed, randomized, double-blind, placebo-controlled, parallel group clinical trial, employing a larger sample size (n = 193) and covering a greater span of time.

Period of funding: 1990 – 1994

Role in project: PI

3. Title: Calcium in the Reduction of Blood Pressure and Serum Cholesterol

Funding source(s): BRSG, $8,233

Summary: This project consisted of two supplemental studies to project 2 above.

Period of funding: 1990 - 1993

Role in project: PI

4. Title: Case-Control Study of Colon Polyps

Funding source(s): NCI, $386,526 direct costs

Summary: One of six studies in the program grant, Cancer Prevention Research Unit (see #5 below). This case-control study investigated risk factors for incident adenomatous polyps of the colon (n = 600 cases, 1200 colonoscopy negative controls, 600 community controls).

Period of funding: 1990 - 1995

Role in project: Project Director 1990 to 1991, PI 1992 to 1994

5. Title: Cancer Prevention Research Unit (P01 CA50305)

Funding source(s): NCI, $5,405,449 direct costs

Summary: This project consists of six studies and five support cores directed at investigating the etiology and prevention of colon cancer (PI, John D. Potter).

Period of funding: 1990 - 1995

Role in project: Program Director; PI of Clinical Core; PI of Project 1, case-control study (see #4 above); Director of Cell Proliferation Laboratory

6. Title: Calcium and Colorectal Epithelial Cell Proliferation in Ulcerative Colitis

Funding source(s): BRSG, $10,375

Summary: This pilot project was a randomized, double-blind, placebo-controlled clinical trial (n = 32) designed to assess the efficacy of calcium in amounts greater than the RDA in patients with ulcerative colitis in the reduction of colonic epithelial cell proliferation, a biomarker or precursor lesion for colorectal neoplasia.

Period of funding: 1992 - 1993

Role in project: PI

7. Title: Distribution of Body Fat and Cancer Risk in Women (“Iowa Women’s Health Study”) (R01 CA39742)

Funding source(s): NCI, $682,086 direct costs

Summary: Prospective cohort study of Iowa women (n = 41,837) investigating cancer and cardiovascular disease (PI Aaron Folsom).

Period of funding: 1990 - 1995

Role in project: Co-investigator 1992 - 1995

8. Title: Diet, Cell Proliferation, and Colon Neoplasia Study

(R01 CA66539)

Funding source: NCI, $990,338 direct costs

Summary: Case-control study (n = 220 cases and 220 controls) to investigate the interrelationships among colonic neoplasms (primarily incident adenomas) colonic epithelial cell proliferation, and risk factors for colon cancer.

Period of funding: 1994 - 1998

Role in project: PI

9. Title: Antioxidants, Oxidative Damage, Cell Proliferation, and Colon Neoplasia

Funding source: Merck Company Foundation/Society of Epidemiologic Research, $190,000 direct costs

Summary: Pilot randomized, double-blind, placebo-controlled clinical trial (n = 48) to assess the efficacy of an antioxidant micronutrient combination in the reduction of oxidative DNA damage, lipid peroxidation, and colorectal epithelial cell proliferation in sporadic adenoma patients.

Period of funding: 1994 - 1998

Role in project: PI

10. Title: Biomarkers of Black-White Differences in Prostate Cancer (R01 CA61173)

Funding source: NCI, $497,801 direct costs

Summary: Case-control study (n = 125 cases and 250 controls) to investigate the interrelationships among prostate cancer, race, diet and other lifestyle factors, oxidative damage (oxidative DNA damage and lipid peroxidation), biomarkers of cadmium exposure, and metabolizing enzyme phenotypes.

Period of funding: 1994 - 1997

Role in project: PI

11. Title: Biomarkers of the Effect of Vitamin E on Breast Cancer Risk (U01 CA37378)

Funding source: NCI, $55,012 direct costs

Summary: Pilot cross-sectional study (n = 32) to investigate the interrelationships among intakes of vitamin E and beta carotene; plasma, fresh breast tissue, and paraffin-embedded breast tissue levels of vitamin E and beta carotene; and plasma, fresh breast tissue, and paraffin-embedded breast tissue levels of oxidative damage.

Period of funding: 1995 - 1997

Role in project: PI

12. Title: Intervention Research Training for Cancer Prevention

(R25 CA57707)

Funding source: NCI, $570,300 direct costs

Summary: Training grant to support cancer prevention research training for two physicians per year in fellowship or junior faculty positions.

Period of funding: 1992 - 1997

Role in project: PI 1995 - 1997

13. Title: Soy, Plant Flavonoids, and Cell Proliferation in Monkeys

Funding source: Comprehensive Cancer Center of Wake Forest University, $15,000 direct costs

Summary: Pilot study to assess the efficacy of soy isoflavones and grape flavonoids on normalizing colorectal epithelial cell proliferation in cynomolgus monkeys (PI Gerry O’Sullivan).

Period of funding: 1996 - 1997

Role in project: Co-investigator/Mentor

14. Title: Intervention Research Training for Cancer Prevention

(2R25 CA57707-05)

Funding source: NCI, $1,351,930 direct costs

Summary: Postdoctoral training grant to support two new trainees per year for up to three years each for training in cancer prevention research.

Period of funding: 1997 - 2002 (left grant when relocated in 1998)

Role in project: PI

15. Title: Colon Crypt Apoptosis Markers and Risk for Colonic Neoplasms - I (Pilot)

Funding source: Comprehensive Cancer Center of Wake Forest University, $7,500 direct costs

Summary: Methodologic study to develop immunohistochemical techniques to identify various markers of apoptosis (TUNEL and bcl 2, bax, and bak expression) in colon crypts of humans.

Period of funding: 1997 - 1998

Role in project: PI

16. Title: Modulation of Apoptosis in Monkey Colon by Soy Isoflavones

Funding source: Comprehensive Cancer Center of Wake Forest University, $7,500 direct costs

Summary: Pilot study to investigate whether soy isoflavones may modulate various markers of apoptosis (TUNEL and bcl 2, bax, and bak expression) in colon crypts of monkeys.

Period of funding: 1997 - 1998

Role in project: Co-investigator/Mentor

17. Title: Soy Isoflavones and Cell Proliferation in Monkeys

(R01 CA74040)

Funding source: NCI, $1,021,084 direct costs

Summary: The primary specific aims are to determine whether soy isoflavones favorably modulate colon cell proliferation, apoptosis, and estrogen receptor gene methylation in postmenopausal female cynomolgus monkeys in a way hypothesized to reduce risk for colorectal cancer in humans.

Period of funding: 1998 - 2003

Role in project: Co-investigator/Mentor, 1998-1999

PI of subcontract to U of MN, 1999-2002

PI, 2002-2003

18. Title: Colon Crypt Apoptosis Markers and Risk for Colonic Adenoma

Funding source: South Carolina Cancer Center, $9,955

Summary: Pilot methodologic and case-control study (n = 10 cases and 10 controls) to refine image analysis-assisted quantitation of various markers of apoptosis (bcl 2, bax, and bak expression) in colon crypts and to investigate whether these markers, alone or in combination with cell proliferation markers, may be valid markers of risk for colonic neoplasia.

Period of funding: 1998 - 1999

Role in project: PI

19. Title: Breast Cancer Risk Factors in Shanghai (R01 CA64277)

Funding source: NCI, $901,892 direct costs

Summary: Case-control study (n = 1,500 cases and 1,500 controls) to investigate the roles of hormonal, genetic, dietary, environmental, and lifestyle factors in the development of breast cancer.

Period of funding: 1996 - 2000

Role in project: Co-investigator

20. Title: Evaluation of Predictors for Recurrent Adenomas

(R01 CA72784)

Funding source: NCI, $895,970 direct costs

Summary: Prospective cohort study of 600 incident colon adenoma patients to investigate predictors of risk for developing recurrent adenomas.

Period of funding: 1997 - 2001

Role in project: Co-investigator

21. Title: Multilevel Analysis of SES and Prostate Cancer Risk

Funding source: CDC, $299,995 direct costs

Summary: A case-control study of incident prostate cancer (n = 500 cases, 500 controls; 50% black, 50% white) to investigate stress, coping mechanisms (e.g., John Henryism), various stressors, and other risk factors for prostate cancer.

Period of funding: 1999 - 2001

Role in project: Co-Investigator/Mentor

22. Title: Center for Research in Health Promotion and Risk Reduction in Special Populations (P30 NR0505042)

Funding source: NINR/NIH, $1,029,360 direct costs

Summary: Center grant to provide infrastructure for interdisciplinary collaborative research that will impact any ethnic or minority subgroup who may share a common culture but are not part of the majority, and who may experience varying degrees of discrimination, subordination, and disenfranchisement.

Period of funding: 1999 - 2004

Role in project: Co-Investigator

23. Title: A Multicenter, Randomized, Parallel Group, Placebo-Controlled, Double-Blind Study with In-House Blinding to Determine the Effect of 156 Weeks of Treatment with MK-0966 on the Recurrence of Neoplastic Polyps of the Large Bowel in Patients with a History of Colorectal Adenomas (122-00)

Funding source: Merck Co., Inc., $548,880

Summary: Three arm clinical trial to test the efficacy of rofecoxib (Vioxx), a selective COX-2 inhibitor, in reducing adenoma recurrence over three years.

Period of funding: 2000 - 2005

Role in project: Center PI

24. Title: A Community Based Biomarker Research Program to Improve Colon Cancer Prevention Methods in the Midlands and Upstate of South Carolina

Funding source: Fullerton Foundation, $700,000

Summary: The objective of this project was to establish a consortium of community gastroenterologists to develop biomarkers of risk for colorectal neoplasia; to investigate the validity of the biomarkers in a pilot, community, colonoscopy-based case-control study (n = 200) of incident sporadic colorectal adenomas; and to identify potential chemopreventive agents.

Period of funding: 2000 - 2003

Role in project: PI

25. Title: Planning a Multi-Racial, General Population-Based Molecular Epidemiology Cohort Study of Cancer in South Carolina: Piloting Stage One Recruitment Methods and Follow-Up

Funding source: South Carolina Cancer Center/University of South Carolina, $55,641

Summary: This project is to pilot the first method (random digit dialing) of a multiple sequential method recruitment process for establishing a statewide multiracial prospective cohort study in South Carolina. We will also pilot forms, biological sample acquisition, and cohort follow-up methods. The pilot study sample size is 800; the projected sample size for the full-scale cohort is 150,000.

Period of funding: 2000 - 2002

Role in project: PI

26. Title: Planning a Multi-Racial, General Population-Based Molecular Epidemiology Cohort Study of Cancer in South Carolina: Piloting Stage Two Recruitment Methods

Funding source: South Carolina Cancer Center, $9,920

Summary: This project is to pilot the second stage of a multiple sequential method recruitment process for establishing a statewide prospective cohort study in South Carolina. We will use church, worksite, and school-based methods to recruit additional (see grant above) African-Americans.

Period of funding: 2000 - 2002

Role in project: Co-Investigator

27. Title: The Effect of Brassica Vegetable Consumption on Molecular Markers of Cellular Apoptosis and Proliferation in the Human Colon Epithelium

Funding source: South Carolina Cancer Center, $16,848

Summary: This project is to pilot a randomized, controlled, cross-over clinical trial (n = 18) to assess the effects of Brassica consumption on colorectal crypt epithelial cell proliferation and apoptosis.

Period of funding: 2000 - 2001

Role in project: Co-PI/Mentor

28. Title: Complementary and Alternative Medicine with Curative Intent

Funding source: CDC, $383,841 direct costs

Summary: This project is to assess how to study persons who have claimed to be healed of diabetes mellitus or cancer through faith healing or macrobiotics by bringing together practitioners of these CAM therapies, people who have been healed using these therapies, and a range of academic experts.

Period of funding: 2000 - 2002

Role in project: Co-Investigator

29. Title: Dietary Seaweed and Early Breast Cancer: A Randomized Trial

Funding source: DOD, $123,184 direct costs

Summary: This project is a randomized, controlled, cross-over trial of the efficacy of brown seaweed consumption on modulation of biomarkers of sex steroid metabolism in patients with early-stage breast cancer.

Period of funding: 2000 - 2001

Role in project: Co-Investigator

30. Title: Cohort Study of Biomarkers for Recurrent Adenomas

(R03 CA88183)

Funding source: NCI, $100,000 direct costs

Summary: Prospective cohort study of 300 incident colon adenoma patients to investigate associations of apoptosis by TUNEL, expression of bcl-2, bak, bax, and thymidylate synthase in adenomas and risk for developing recurrent adenomas.

Period of funding: 2000 - 2002

Role in project: Co-investigator

31. Title: Effects of Brassica on Markers of Colon Cancer Risk

(R03 CA95791)

Funding source: NCI, $100,000 direct costs

Summary: This project is a preliminary, randomized, controlled cross-over clinical trial (n = 30) to assess the effects of Brassica consumption on colorectal crypt epithelial cell proliferation, differentiation, and apoptosis.

Period of funding: 2001 - 2003

Role in project: Co-PI/Mentor

32. Title: Genetic Alterations of p53R2 and Colorectal Adenoma

(R03 CA092773)

Funding source: NCI, $100,000 direct costs

Summary: This project is to determine frequencies and distributions of germline mutations/polymorphisms of p53R2 in a recently concluded case-control study of incident adenoma, investigate their associations with adenomas, and identify mutations/polymorphisms that are responsible for altered DNA repair.

Period of funding: 2002 - 2004

Role in project: Co-investigator/Mentor

33. Title: Diet and Colorectal Cancer: How Does High Vegetable Intake Minimize the Risk?

(Contract from the University of Melbourne, Australia)

Funding source: $12,308 contract direct costs

Summary: This project is a preliminary, randomized, controlled, cross-over clinical trial (n = 45) to compare the effects of a high saturated fat, high red meat, low vegetable and grain Australian diet vs. a high olive oil, low red meat, high vegetable and grain Cretan (Mediterranean) diet on colorectal crypt epithelial cell proliferation, differentiation, and apoptosis.

Period of funding: 2001 - 2003

Role in project: Co-Investigator/Subcontract PI

34. Title: Genetic Risk Factors of Concussion in College Athletes

Funding source: USC SOM Research Development Fund, $41,000

Summary: This project consists of a case-control study and a pilot prospective cohort study of polymorphisms of the genes for APOE, APO promoter, and tau protein and incidence of concussion and risk of sequelae from concussion in college athletes.

Period of funding: 2002 - 2003

Role in project: Co-Investigator/Mentor

35. Title: Center for Colon Cancer Research (1P20 RR17698)

Funding source: NCI, $7,714,834 direct costs

Summary: This five-year project is for a Center of Biomedical Research Excellence (COBRE) in colorectal cancer. A major aim of the Center is to develop research infrastructure and existing junior faculty, and to recruit new faculty, in order to build a nationally competitive research environment in colon cancer. This multi-disciplinary center is composed of multiple projects jointly overseen by junior and senior (mentor) investigators.

Period of funding: 2002 - 2007

Role in project: Co-PI/Mentor

36. Title: Double-Blind, Randomized, Placebo-Controlled, Multicenter Study to Evaluate the Effect of Rofecoxib in Decreasing the Risk of Prostate Cancer

Funding source: Merck Co., Inc., ~$200,000 direct costs (subcontract)

Summary: This is a multi-center, randomized, double-blind, placebo-controlled clinical trial (n = 15,000) of the efficacy of a selective COX-2 inhibitor, rofecoxib 25 mg daily, in reducing the incidence of prostate cancer over six years.

Period of funding: 2003 - 2004

Role in project: Center PI

37. Title: Colorectal Chemoprevention with Calcium and Vitamin D

(1 R01 CA98286-01A1)

Funding source: NCI, $16,393,918 direct costs ($659,065 subcontract)

Summary: A national, multi-center, randomized, double-blind, placebo-controlled, 2x2 factorial design clinical trial (n = 1,966) of vitamin D and calcium alone and in combination *vs*. placebo in the reduction of adenoma recurrence over five years.

Period of funding: 2003 - 2008

Role in project: Co-investigator/Center PI

38. Title: Calcium, Vitamin D and Colon Cancer Risk Biomarkers

(1 R01 CA104637-01)

Funding source: NCI, $450,000 direct costs

Summary: A randomized, double-blind, placebo-controlled, 2x2 factorial clinical trial in sporadic adenoma patients (n = 88) to test the separate and joint effects of calcium and vitamin D on a panel of immunohistochemically detected colon tissue biomarkers of risk for colorectal cancer (COX-2, APC, MSH-2, MLH1, MIB-1, telomerase, p21, bcl-2, bax, bak) over 6 months.

Period of funding: 2004 - 2006

Role in project: PI

39. Title: Calcium/Vitamin D, Biomarkers & Colon Polyp Prevention

(1 R01 CA114456-01A1)

Funding source: NCI, $933,912 direct costs

Summary: An adjunct biomarker study to grant 37, Colorectal Chemoprevention with Calcium and Vitamin D, a randomized, double-blind, placebo-controlled, 2x2 factorial clinical trial in sporadic adenoma patients (n = 1,964) to test the separate and joint effects of calcium and vitamin D on adenoma recurrence. The biomarker adjunct study will investigate the effect of treatment on a panel of immunohistochemically detected colon tissue biomarkers of risk for colorectal cancer (COX-2, APC, -catenin, E-cadherin, MLH1, telomerase, bcl-2, bax, TGF, TGF1) over 3 – 5 years, and whether or not effects on the biomarkers is associated with adenoma recurrence.

Period of funding: 2005 – 2008, 2008 - 2013

Role in project: PI

40. Title: Calcium, Vitamin D, and Markers of Adenomatous Polyps

(1 R03 CA115230-01)

Funding source: NCI, $100,000 direct costs

Summary: An adjunct biomarker study to grant 38, Calcium, Vitamin D and Colon Cancer Risk Biomarkers, a randomized, double-blind, placebo-controlled, 2x2 factorial clinical trial in sporadic adenoma patients (n = 88) to test the separate and joint effects of calcium and vitamin D on a panel of immunohistochemically detected colon tissue biomarkers of risk for colorectal cancer. The adjunct study is to add -catenin, E-cadherin, TGF, and TGF1 to the biomarker panel.

Period of funding: 2005 - 2007

Role in project: PI

41. Title: Emory-GT Nanotechnology Center for Personalized and Predictive Oncology (1 U54 CA119338-01)

Funding source: NCI, $16,643,365 direct costs

Summary: This grant is to establish an Emory/Georgia Tech nanotechnology center focusing on the use of nanotechnology for cancer-related biomarkers.

Period of funding: 2005 - 2010

Role in project: Co-Investigator

42. Title: Plasma Markers of T Cell Activation as Biomarkers for Acute Graft versus Host Disease

Funding source: Children’s Healthcare of Atlanta, $49,924 direct costs

Summary: A pilot prospective cohort study in pediatric allo-BMT recipients (n = 50) to investigate potential biomarkers of pre-clinical AGVHD (serial levels of sIL-2R, sCD8, sCD28, sCD40L).

Period of funding: 2005 - 2007

Role in project: Co-Investigator

43. Title: Vitamin D & Calcium Regulation Biomarkers in Colon Cancer Risk Reduction (1 R03 CA121873-01)

Funding source: NCI, $100,000 direct costs

Summary: An adjunct biomarker study to grant 38, Calcium, Vitamin D and Colon Cancer Risk Biomarkers, a randomized, double-blind, placebo-controlled, 2x2 factorial clinical trial in sporadic adenoma patients (n = 88) to test the separate and joint effects of calcium and vitamin D on a panel of immunohistochemically detected colon tissue biomarkers of risk for colorectal cancer. The adjunct study is to add calcium sensing receptor, vitamin D receptor, CYP27B1, and CYP24 to the biomarker panel.

Period of funding: 2006 - 2008

Role in project: PI

44. Title: Georgia Cancer Cohort Study

Funding source: Georgia Cancer Coalition, $400,000 direct costs

Summary: This project is to plan a prospective, state-wide, general population-based, molecular epidemiologic cohort study of cancer in Georgia.

Period of funding: 2006 - 2009

Role in project: Co-investigator 2006 – 2008; PI 2008 - 2009

45. Title: Establishing a Cancer Risk Prediction and Prevention Research Program at Emory University

Funding source: The Robert W. Woodruff Health Sciences Fund, Inc., $257,000 direct costs

Summary: This project is to develop a Cancer Risk Prediction and Prevention Program for the Winship Cancer Institute and the Research Institute for Predictive Health Emory University. The program will be focused on the development, validation, and application of biomarkers of exposure, genotype, and phenotype that predict risk for colorectal and prostate cancers and can be used to individualize preventive interventions and to monitor their effects. Two research projects to begin the development of the program are: a) “Nanotechnology and Image Analysis for Predictive, Treatable Biomarkers of Risk for Preventing Colon Cancer”, and b) “Regulators and Markers of Oxidative Stress in Predicting and Preventing Colorectal and Prostate Neoplasms”.

Period of funding: 2006 - 2008

Role in project: PI

46. Title: Oxidative Stress, DNA Repair & Colorectal Adenoma Risk (1 R01 CA116795-01A2)

Funding source: NCI, $753,414 direct costs

Summary: The objective of this study is to examine the associations among colorectal adenoma; determinants of oxidative stress, including dietary habits, biomarkers of oxidative damage, serum antioxidant levels; and genetic variation in antioxidant and DNA repair enzymes using data and biological specimens collected in two previous case-control studies of incident, sporadic colorectal adenoma (see grants 4 & 8).

Period of funding: 2007 - 2010

Role in project: PI 2007 - 2008, Co-investigator 2008 - 2010

47. Title: Effects of Supplemental Antioxidants on Biomarkers of Oxidative Stress and Inflammation in the Normal Colon Epithelium and Blood of Persons at Increased Risk for Colorectal Cancer

Funding source: Emory Center for Clinical and Molecular Nutrition, $5,000 direct costs

Summary: Using stored samples from grant #9, a randomized, double-blind, placebo-controlled clinical trial to test the efficacy of an antioxidant micronutrient “cocktail” on colorectal epithelial cell proliferation in sporadic colorectal adenoma patients, test treatment effects on 8-OH-dG in colon crypts and markers of oxidative stress and inflammation in blood.

Period of funding: 2007 - 2008

Role in project: Co-investigator (with Paul Terry)

48. Title: Effects of Supplemental Antioxidants on Biomarkers of Oxidative Stress and Inflammation in the Normal Colon Epithelium and Blood of Persons at Increased Risk for Colorectal Cancer

Funding source: University Research Committee (Emory),

$29,991 direct costs

Summary: Using stored samples from grant #9, a randomized, double-blind, placebo-controlled clinical trial to test the efficacy of an antioxidant micronutrient “cocktail” on colorectal epithelial cell proliferation in sporadic colorectal adenoma patients, test treatment effects on 8-OH-dG and IL-6 in colon crypts and markers of oxidative stress and inflammation in blood.

Period of funding: 2008 - 2009

Role in project: Co-investigator (with Paul Terry)

49. Title: Pilot Study of Serum Vitamin D and Variability of Genes Involved in Vitamin D Metabolism and Function and Risk for Colorectal Adenoma

Funding source: Winship Cancer Institute (Emory),

$29,296 direct costs

Summary: Using stored samples from grant #8, a case-control study of incident, sporadic colorectal adenoma, investigate associations of serum 25-OH-vitamin D alone and in interaction with genetic variation in vitamin D-related genes.

Period of funding: 2008 - 2009

Role in project: PI

50. Title: Vitamin D/Calcium and Oxidative Stress and Inflammation Biomarkers ([1 R03 CA136113-01](https://commons.era.nih.gov/commons/genericStatus.do?actionRole=nonPI&applID=7546896&uhf-token=WyFQ%2BSWZSA46zr7ppqVpKP%2FMB%2B4%3D))

Funding source: NCI, $100,000 direct costs

Summary: This project is to investigate the effects of supplementation with calcium and vitamin D alone or in combination on biomarkers of oxidative stress and inflammation in normal appearing colorectal epithelium in persons at increased risk for colorectal cancer using biological samples and questionnaire data from a recently completed, NCI-funded, pilot, randomized, double-blind, placebo-controlled, 2X2 factorial clinical trial of calcium and vitamin D over six months in patients with sporadic colorectal adenoma (N = 88).

Period of funding: 2008 – 2010

Role in project: PI

51. Title: Colorectal Chemoprevention with Calcium and Vitamin D

(2 R01 CA98286-01A1)

Funding source: NCI, $16,393,918 direct costs ($659,065 subcontract)

Summary: Continuation of a national, multi-center, randomized, double-blind, placebo-controlled, 2x2 factorial design clinical trial (n = 1,966) of vitamin D and calcium alone and in combination *vs.* placebo in the reduction of adenoma recurrence over five years.

Period of funding: 2008 - 2013

Role in project: Co-investigator/Center PI

52. Title: Biomarkers of Risk for Colorectal Neoplasms

Funding source: Wilson P. and Anne W. Franklin Foundation, $100,000 direct costs annually

Summary: Research/training grant to develop biomarkers of risk for colorectal neoplasms and initiate careers of trainees.

Period of funding: 2007 – 2021

Role in project: PI

53. Title: Winship Cancer Institute (P30 CA138292)

Funding source: NCI

Funding for year: $3,033,323 direct costs

Summary: Core cancer center grant for Emory University’s cancer center, the Winship Cancer Institute.

Period of funding: 2009 – 2012, 2012 - 2017

Role in project: Program Leader for Cancer Prevention & Control

54. Title: Vitamin D, Calcium and Mammographic Breast Density

Funding source: Dartmouth Medical School

Funding for year: $11,735 direct costs

Summary: A pilot adjunct study to grant 37, Colorectal Chemoprevention with Calcium and Vitamin D, a randomized, double-blind, placebo-controlled, 2x2 factorial clinical trial in sporadic adenoma patients (n = 1,964) to test the separate and joint effects of calcium and vitamin D on adenoma recurrence. This pilot adjunct study is to investigate the effect of calcium and/or vitamin D on mammographic breast density in women.

Period of funding: 2008

Role in project: Co-investigator/Center PI

55. Title: Calcium/Vitamin D, Biomarkers & Colon Polyp Prevention

(2 R56 CA114456-04)

Funding source: NCI, $333,000 direct costs

Summary: A continuation of grant 39, an adjunct biomarker study to grant 37/51, Colorectal Chemoprevention with Calcium and Vitamin D, a randomized, double-blind, placebo-controlled, 2x2 factorial clinical trial in sporadic adenoma patients (n = 1,964) to test the separate and joint effects of calcium and vitamin D on adenoma recurrence. The biomarker adjunct study will investigate the effect of treatment on a panel of immunohistochemically detected colon tissue biomarkers of risk for colorectal cancer (COX-2, APC, -catenin, E-cadherin, MLH1, telomerase, bcl-2, bax, TGF, TGF1) over 3 – 5 years, and whether or not effects on the biomarkers is associated with adenoma recurrence.

Period of funding: 2009 - 2010

Role in project: PI

56. Title: Supplemental Funding for HIV-Associated Malignancies: Emory CFAR & WCI (P30 AI050409)

Funding source: NCI, $161,268 direct costs

Summary: The purpose of the CFAR supplemental grant for pilot work is to provide targeted small grants to investigators engaged in collaborative, multidisciplinary work that will expand our knowledge of the pathogenesis, prevention, and treatment of HIV-associated malignancies; to promote new and expanded collaborations between faculty at the Emory CFAR and the newly designated NCI Cancer Center at the Emory University, Winship Cancer Institute (WCI); and to facilitate an increase in the number of funding applications submitted to NCI from investigators at Emory University.

Period of funding: 2009 – 2011, 2012 - 2013

Role in project: Co-Investigator (J. Curran PI)

57. Title: Pilot study of automated multiplex quantum dot immunohistochemistry nanotechnology in CPS-II

(ACS #10545)

Funding source: ACS, $108,160 direct costs

Summary: The broad, long-term goal of this project is to develop, refine, and apply state-of-the-art automated multiplex quantum dot immunohistochemistry (QD-IHC) nanotechnology to detect molecular markers on formalin-fixed paraffin-embedded (FFPE) colon and rectal cancer tissue specimens from CPS-II Nutrition.

Period of funding: 2011

Role in project: Co-Investigator (P. Campbell PI)

58. Title: Tumor Microenvironment Effects on the Spatial Topography of Signaling Pathway Activity

Funding source: Winship Cancer Institute, $49,815 direct costs

Summary: The broad, long-term goal of this project is to develop, refine, and apply state-of-the-art automated multiplex quantum dot immunohistochemistry (QD-IHC) nanotechnology to detect molecular markers on formalin-fixed paraffin-embedded (FFPE) brain tumor tissue specimens.

Period of funding: 2011 - 2012

Role in project: Co-Investigator (C. Moreno PI)

59. Title: Screen and Identify the Key miRNAs for Lung Cancer Prevention

Funding source: Winship Cancer Institute, $50,000 direct costs

Summary: The broad, long-term goal of this project is to develop, refine, and apply state-of-the-art automated multiplex quantum dot immunohistochemistry (QD-IHC) nanotechnology to detect molecular markers on formalin-fixed paraffin-embedded (FFPE) lung normal and carcinoma tissue specimens.

Period of funding: 2011 - 2012

Role in project: Co-Investigator (Y. Wang PI)

60. Title: Informatics for Integrative Brain Tumor Whole Slide Analysis (1 U24 CA180924-01)

Funding source: NLM, $396,414 annual direct costs

Summary: This grant is to develop methods, analytic pipelines, and data management tools that will make it feasible to systematically carry out large-scale comparative analyses of brain tumor histological features and of patterns of protein and gene expression. We will deploy a data repository populated with images, features, and analytic results from our project that will provide a publicly available resource for brain tumor research.

Period of funding: 07/01/2011-6/30/2015

Role in project: Co-Investigator (J. Saltz PI)

61. Title: An Integrated Study of Mitochondrial Pathways in Colorectal Cancer (1 R01 CA172555-01A1)

Funding source: NCI, $38,098 subcontract direct costs

Summary: This application is to investigate whether mitochondria and mitochondrial-regulated pathways are risk factors for colorectal carcinoma. To address this hypothesis, we will conduct a nested case-control study within the Singapore Chinese Health Study (SCHS) using plasma and DNA available from 640 cases and 1,280 matched controls.

Period of funding: 2013 – 2016 (approved for funding)

Role in project: Co-investigator/Subcontract PI

62. Title: A Pilot Metabolomic Study of the Effects of Vitamin D and Calcium Supplementation

(2 R01 CA98286 Admin. Suppl.)

Funding source: NCI, $66,370 direct costs (Emory subcontract; applied for)

Summary: This project is a pilot, laboratory-based adjunct biomarker study to 2 R01 CA98286, “Colorectal Chemoprevention with Calcium and Vitamin D”, a randomized, double-blind, placebo-controlled, 2x2 factorial design clinical trial (n = 2,259) of adenoma recurrence and calcium and vitamin D3 alone and in combination *vs*. placebo. The objective of this project is to establish a new interactive collaboration between clinical researchers in the parent study and metabolomics experts, and to incorporate a novel high-resolution metabolomics approach into the parent study to better understand the independent and synergistic anti-neoplastic actions and other effects of vitamin D and calcium in humans.

Period of funding: 2013 – 2014

Role in project: Co-Investigator (J. Baron PI)

63. Title: Vitamin D3, Calcium and Inflammation, Immunomodulation and Colonic Permeability

(1 R03 CA180545-01)

Funding source: NCI, $100,000 direct costs

Summary: This grant was for a laboratory-based adjunct biomarker study to 2 R01 CA98286, “Colorectal Chemoprevention with Calcium and Vitamin D”, a randomized, double-blind, placebo-controlled, 2x2 factorial design clinical trial (n = 2,259) of adenoma recurrence and calcium and vitamin D3 alone and in combination *vs*. placebo. The study aims were to 1) test the separate and joint effects of calcium and vitamin D supplementation on a custom panel of biomarkers of inflammation/immunomodulation (GM-CSF, IFNγ, TNFα, IL-6, IL-1β, IL-4, IL-8, IL-10, IL-12p40, and IL-17) representing different classes of inflammatory responses in patients with previous sporadic colorectal adenomas (n = 460); 2) obtain preliminary data on the effects of supplementation with calcium and vitamin D alone or in combination on biomarkers of colonic permeability (specific IgG and IgA to lipopolysaccharide [LPS] and flagellin) (n = 120); and 3) obtain preliminary data on whether changes in the biomarker levels are associated with decreased sporadic colorectal adenoma recurrence.

Period of funding: 2014 – 2016

Role in project: Co-investigator (V. Fedirko PI)

64. Title: Burroughs Wellcome Fund, Human Health Molecules to Mankind (M2M) (1008188)

Funding source: Burroughs Wellcome, $500,000 annual direct costs

Summary: The goal of M2M is to create a new breed of scientist and is designed to educate graduate students in both lab and population sciences. Students are enrolled in one of four tracks and work with mentors in Emory’s college, medical school and public health school. The M2M faculty are from a broad spectrum of academic disciplines including medicine, public health and anthropology. There also is a collaborative relationship with faculty at the Georgia Institute of Technology and researchers at the Centers for Disease Control and Prevention.

Period of funding: 2014 – 2020

Role in project: Co-Leader, Biomarkers and the Development of Acute and Chronic Diseases track (N. McCarty PI)

65. Title: Quantum Dot Assay of the Stanniocalcin Pathway; a Candidate Marker of Late Breast Cancer Recurrence

Funding source: Winship Cancer Institute Glenn Family Breast Center $90,902 direct costs

Summary: This pilot project is to develop a multiplex quantum dot immunohistochemistry assay with quantitative image analysis (mQD-IHC/qIA, or QIQI) to assess the amounts and distributions of biomarkers within the stanniocalcin pathway in breast carcinomas as possible predictors of late breast cancer recurrence.

Period of funding: 2013 – 2015

Role in project: Co-investigator (T. Lash PI)

66. Title: Vitamin D3, Calcium, Biomarkers of Gut Barrier Function

(1 R21 CA160585-01)

Funding source: NCI, $275,000 direct costs

Summary: This application is for a laboratory-based adjunct biomarker study to 2 R01 CA98286, “Colorectal Chemoprevention with Calcium and Vitamin D”, a randomized, double-blind, placebo-controlled, 2x2 factorial design clinical trial (n = 2,259) of adenoma recurrence and calcium and vitamin D3 alone and in combination *vs*. placebo. The primary aims of the proposed study are to 1) obtain preliminary data on the separate and joint effects of calcium and vitamin D3 supplementation on biomarkers of gut barrier function (Ki-67/MIB-1, caspase-3, TLR4, TLR5, ZO-1, claudin-1, occludin, mucin-17, E-cadherin, and β-catenin) and inflammation (NFκB and TNFα) in biopsies of normal-appearing rectal mucosa, and 2) investigate whether the findings for the tissue-specific biomarkers are correlated with circulating biomarkers of gut barrier function (specific IgG and IgA to lipopolysaccharide [LPS] and flagellin, LPS binding protein [LBP], and intestinal fatty acid binding protein [I-FABP]) and inflammation (GM-CSF, IFNγ, IL-6, IL-1β, IL-2, IL-8, IL-10,IL-12p70, and TNFα).

Period of funding: 2013 – 2015

Role in project: Co-Investigator (V. Fedirko PI)

67. Title: Tools to Analyze Morphology and Spatially Mapped Molecular Data (1 U24 CA180924-01)

Funding source: NCI, $1,040,800 direct costs

Summary: The goal of this project is to develop tools and methods that will play essential roles in supporting studies of tumor initiation, development, heterogeneity, invasion, and metastasis. These tools will allow quantitative analyses of the interplay between morphology and spatially mapped genetics and molecular data and will be used in studies that predict outcome and response to treatment.

Period of funding: 2013 – 2018

Role in project: Co-investigator (J. Saltz PI)

68. Title: Gut Microbiome and Colorectal Carcinogenesis: A Pilot Case-Control Study of Colorectal Adenoma

Funding source: Winship Cancer Institute, $25,000 direct costs

Summary: The goals of this pilot case-control study of incident, sporadic colorectal adenoma (n = 20 cases, 20 controls) are to 1) obtain preliminary data on the association of bacterial profiles and/or specific bacterial species with adenoma status, 2) test and optimize the procedures and protocols for stool and colon biopsy collection/handling, and, based on the results of aim 1, 3) calculate the sample size needed for a larger, full-scale study.

Period of funding: 2015 – 2016

Role in project: Co-investigator (V. Fedirko PI)

**NATIONAL AND**

**INTERNATIONAL**

**PRESENTATIONS:** From Submitted Abstracts (primary presenter; presentations given by mentored trainees not included – see Abstracts for mentored presentations)

Genetic Polymorphisms of NQO1 and p53, Interactions with Environmental Exposures, and Risk for Incident Sporadic Colorectal Adenoma. American Association for Cancer Research 97th Annual Meeting. Washington, DC, April 2006.

Novel Genetic Variations of the CYP24A1 Gene in Patients with Colorectal Adenoma and Controls. American Association for Cancer Research 97th Annual Meeting. Washington, DC, April 2006.

Combined Effect of Dietary Lycopene, Plasma Antioxidants and DNA Repair on Prostate Cancer Risk. American Association for Cancer Research 96th Annual Meeting. Anaheim, CA, April 2005.

A New Generation of Biomarkers of Risk for Colorectal Cancer by Molecular Phenotyping of Colorectal Epithelium Using Automated Quantitative Immunohistochemistry and Image Analysis. 3rd Annual AACR International Conference on Frontiers in Cancer Prevention Research. Seattle, WA, October 2004.

Pro-Oxidant Cigarette Smoking and High Fat Intake and risk for Incident Sporadic Colorectal Adenomas According to Haplotypes of the XRCC1 DNA Repair Gene. 2nd Annual AACR International Conference on Frontiers in Cancer Prevention Research. Phoenix, AZ, October 2003.

Immunohistochemical Mapping of Biomarkers of Risk for Colorectal Neoplasms: Phase I Results of the Markers of Adenomatous Polyps II Study (MAP II). American Association for Cancer Research 93rd Annual Meeting. San Francisco, CA, April 2002.

Modification of the Calcium-Incident Sporadic Colorectal Adenoma Association by Vitamin D Receptor Genotype and NSAID Use. American Society of Preventive Oncology 25th Annual Meeting, New York, NY, March 2001.

Antioxidant Micronutrients and Colorectal Epithelial Cell Proliferation in Adenoma Patients. American Society of Preventive Oncology 24th Annual Meeting. Bethesda, MD, March 2000.

Case-Control Study of Nonsteroidal Anti-Inflammatory Drug Use and Risk for Adenomatous Polyps. American Association for Cancer Research 89th Annual Meeting. New Orleans, LA, March 1998.

Urinary Cadmium and Risk for Incident Prostate Cancer. American Society of Preventive Oncology 22nd Annual Meeting, Bethesda, MD, March 1998.

Calcium and Vitamin D Intakes and Risk for Adenomatous Polyps. American Association for Cancer Research 88th Annual Meeting. San Diego, CA, April 1997.

Total Energy Intake, Physical Activity, Body Size Characteristics, and Risk for Incident Prostate Cancer. American Society of Preventive Oncology 21st Annual Meeting. New Orleans, LA, March 1997.

Calcium and Vitamin D Intake and Ischemic Heart Disease Mortality Among Postmenopausal Women. 1st World Congress on Calcium and Vitamin D in Human Life. Rome, Italy, October 1996.

Differences in Colorectal Proliferation Markers at Three Colon Sites. American Association for Cancer Research 87th Annual Meeting. Washington, DC, April 1996.

Calcium and Colorectal Epithelial Cell Proliferation in Ulcerative Colitis. American Society of Preventive Oncology 20th Annual Meeting. Bethesda, MD, March 1996.

Relation of Calcium and Vitamin D Intake to Ischemic Heart Disease Mortality Among Postmenopausal Women. Society for Epidemiologic Research 28th Annual Meeting. Snowbird, Utah, June 1995.

Calcium Normalizes Distribution of Proliferating Cells in Colorectal Mucosa of Sporadic Adenoma Patients. American Association for Cancer Research 86th Annual Meeting. Toronto, Canada, March 1995.

Colorectal Epithelial Cell Proliferation Kinetics and Risk Factors for Colon Cancer in Sporadic Adenoma Patients. American Society of Preventive Oncology 19th Annual Meeting. Houston, TX, March 1995.

Estrogen Replacement Therapy and Adenomatous Polyps: The Minnesota CPRU Case-Control Study. American Society of Preventive Oncology 19th Annual Meeting. Houston, TX, March 1995.

Superiority of the Proliferating Cell Nuclear Antigen vs. the Bromodeoxyuridine Technique for Measuring Colorectal Epithelial Cell Proliferation in Humans. American Association for Cancer Research 85th Annual Meeting. San Francisco, CA, April 1994.

Predictors of Participation in Cancer Screening Examinations. American Society of Preventive Oncology 18th Annual Meeting. Washington, DC, March 1994.

Non-Dietary Risk Factors for Colon Cancer: The Iowa Women’s Health Study. Society for Epidemiologic Research 26th Annual Meeting. Keystone, CO, June 1993.

Relation of Meat, Fat, and Sugar to Colon Cancer Incidence in Women. American Association for Cancer Research 84th Annual Meeting. Orlando, FL, May 1993.

Reduced Risk of Colon Cancer with High Intake of Vitamin E: The Iowa Women’s Health Study. American Society of Preventive Oncology 17th Annual Meeting. Tucson, AZ, March 1993.

Calcium Intake and the Risk of Colon Cancer in a Prospective Study of 35,216 Women. Society for Epidemiologic Research 25th Annual Meeting, Minneapolis, MN, June 1992.

Knowledge, Attitudes, and Personal Practices Regarding the Prevention and Early Detection of Cancer in the Upper Midwest. 16th Annual Meeting of the American Society of Preventive Oncology, Bethesda, MD, March 1992.

The Effect of an Improved Response Rate on the Results of a Physician Telephone Survey. The Society of Teachers of Family Medicine 24th Annual Spring Conference. Philadelphia, PA, May 1991.

Changing Practice Patterns for Cardiovascular Disease Prevention by Primary Care Physicians. American Heart Association 31st Annual Conference on Cardiovascular Disease Epidemiology. Orlando, FL, March 1991.

Changes in Physician Practice for the Prevention of Cardiovascular Disease, Research Forum, The Society of Teachers of Family Medicine 23rd Annual Spring Conference. Seattle, WA, May 1990.

Invited

Calcium, Vitamin D, and Colorectal Cancer: Observation, Biomarkers, and Chemoprevention. University of Michigan Pathology Seminar Series. Ann Arbor, MI, September 2019.

Colon Cancer as an Evolutionary Discordance Disease. University of Texas MD Anderson Cancer Center Department of Epidemiology Seminar Series. Houston, TX, December 2015.

Are Most Human Cancers Due to Bad Luck? American Society of Preventive Oncology 39th Annual Meeting. Birmingham, AL, March 2015.

Effects of Supplemental Vitamin D and Calcium on Normal Colon Tissue and Circulating Biomarkers of Risk for Colorectal Neoplasms. 17th Annual Workshop on Vitamin D. Chicago, IL, June 2014.

Biospecimen Acquisition, Handling, Storage, Distribution, and Analysis in International Collaborative Studies. American Society of Preventive Oncology 38th Annual Meeting. Washington, DC, March 2014.

A Pilot Metabolomic Study of the Effects of Vitamin D and Calcium Supplementation. Polyp Prevention Study Group Annual Meeting 2013. San Juan, Puerto Rico, April 2013.

Tissue-Based Biomarkers and Colorectal Cancer Etiology, Prevention, and Treatment. Calle/Rodriguez Memorial Expert Roundtable: Integrating Pathological Materials into Epidemiologic Studies. American Cancer Society, Atlanta, GA, February 2012.

Calcium, Vitamin D, and Biomarkers of Risk for Colorectal Neoplasms. Polyp Prevention Study Group Annual Meeting 2011. Chapel Hill, NC, November 2011.

Calcium, Vitamin D, and Biomarkers of Risk for Colorectal Neoplasms. HNPCC Chemoprevention Workshop, Memorial Sloan-Kettering Cancer Center, New York, NY, July 2011.

Calcium, Vitamin D, and Biomarkers of Risk for Colorectal Neoplasms. University of Virginia Cancer Center Grand Rounds, University of Virginia Cancer Center. Charlottesville, VA, April 2011.

Calcium, Vitamin D, and Biomarkers of Risk for Colorectal Neoplasms. Moffitt Cancer Center Grand Rounds, The Moffitt Cancer Center. Tampa, FL, January 2011.

A Role for Vitamin D in Preventing Colorectal Cancer? 7th Annual International Conference of the Society for Integrative Oncology, New York, NY, November 2010.

Calcium, Vitamin D, and Biomarkers of Risk for Colorectal Neoplasms. Hematology/Oncology Grand Rounds, Columbia University College of Physicians & Surgeons. New York, NY, November 2010.

Treatable Biomarkers of Risk for Colon Cancer. American Society of Preventive Oncology 34th Annual Meeting, Bethesda, MD, March 2010.

Building a Program in a Cancer Center: Necessary Elements, Funding, Growth. ASPO Associate Director/Program Leader Workshop, American Society of Preventive Oncology 34th Annual Meeting, Bethesda, MD, March 2010.

Calcium, Vitamin D, and Biomarkers of Risk for Colorectal Neoplasms. University of Michigan, March 2010.

Calcium and vitamin D in the etiology and primary prevention of colorectal cancer. Second International Congress on Nutrition and Cancer, Antalya, Turkey, May 2009.

Phenotypic Biomarkers of Risk for Colorectal Neoplasms and Their Modulation by Calcium and Vitamin D. Polyp Prevention Study Group Annual Meeting 2008. San Juan, PR, December 2008.

Cancer Molecular Epidemiology, Biomarkers, and Chemoprevention at Emory University. 2008 Research Symposium of the Georgia Cancer Coalition. Lake Oconee, GA, May 2008.

Use of Conjugated Quantum Dots to Detect Cancer-Related Biomarkers. NCI Nanotechnology Alliance Investigators Meeting 2007. Chapel Hill, NC, October 2007.

Calcium & Vitamin D and Risk for Other than Bone and Malignant Diseases. Polyp Prevention Study Group Annual Meeting 2007. Chicago, IL, October 2007.

Detecting and Quantifying Biomarkers of Risk for Colorectal Cancer Using Quantum Dots and Novel Image Analysis Algorithms. 28th IEEE Engineering in Medicine and Biology Society Annual International Conference, New York, NY, September 2006.

Vitamin D, Calcium and Colorectal Cancer. 97th American Oil Chemists Society Annual Meeting & Expo, St. Louis, MO, May 2006.

Chemoprevention Trials for Prostate Cancer. Advances in Urology 2005, Atlanta, GA, December 2005.

Calcium, Vitamin D, and a New Generation of Biomarkers of Risk for Colon Cancer. Emory Winship Cancer Institute 3rd Annual International Scientific Symposium, Atlanta, GA, October 2005.

Calcium, Vitamin D, and a New Generation of Biomarkers of Risk for Colon Cancer. Centers for Disease Control and Prevention, Atlanta, GA, October 2005.

Nutrition and Cancer Prevention. An Intensive Review of Family Medicine, Kiawah Island Resort, SC, June 2005.

Calcium, Vitamin D, and a New Generation of Biomarkers of Risk for Colon Cancer. Arizona Cancer Center, Tuscon, AZ, April 2004.

Surrogate Endpoint Biomarkers are Useful for Developing Chemopreventive Agents Against Sporadic Cancers. American Society of Preventive Oncology 27th Annual Meeting, Philadelphia, PA, March 2003.

Calcium, Biomarkers and Colon Cancer: A Tale of Two Themes. Division of Cancer Prevention, National Cancer Institute. Rockville, MD, February 2003.

Calcium, Biomarkers and Colon Cancer: A Tale of Two Themes. Department of Epidemiology, Rollins School of Public Health, Emory University. Atlanta, GA, February 2003.

Calcium and Colon Neoplasia Risk Biomarkers. Polyp Prevention Study Group Annual Consortium Meeting. Denver, CO, September 2002.

Calcium, Biomarkers and Colon Cancer: A Tale of Two Themes. Hollings Cancer Center Seminar Series. The Medical University of South Carolina. Charleston, SC, January 2002.

Colorectal Cancer. Cancer Prevention and Control Academic Course, Cancer Prevention Fellowship Program, Division of Cancer Prevention and Control, National Cancer Institute. Bethesda, MD, July 2000.

Genotypes, Phenotypes, and Environment in the Pathogenesis of Prostate Cancer. Keystone Symposia on Molecular and Cellular Biology: Advances in Human Breast and Prostate Cancer. Incline Village, NV, March 2000.

Nutrition and Colon Cancer Prevention. 4th Nestlé Nutrition Workshop, Clinical and Performance Programme. Cancer & Nutrition: Prevention and Treatment. Kuala Lumpur, Malaysia, November 1999.

Research Design: Quantitative. Invitation to Excellence: A National Model for Academic Skills Preparation, Faculty Development Series, Workshop II: Research Skills - Getting Started With the Basics. Sponsored by the Society of Teachers of Family Medicine. Seattle, WA, April 1999.

Incorporating Intermediate Endpoints for Cancer Research in Assessing Causality: Examples from Assessing the Calcium-Colon Cancer Association. Division of Cancer Prevention and Control Colloquia Series, Division of Cancer Prevention and Control, National Cancer Institute. Bethesda, MD, October 1997.

Markers for Prostate Cancer. Prostate Cancer Roundtable, North Carolina Advisory Committee on Cancer Coordination and Control. Research Triangle Park, NC, May 1997.

Colorectal Cancer. Cancer Prevention and Control Academic Course, Cancer Prevention Fellowship Program, Division of Cancer Prevention and Control, National Cancer Institute. Bethesda, MD, July 1997.

Incorporating Intermediate Endpoints for Cancer Research in Assessing Causality: Examples from Assessing the Calcium-Colon Cancer Association. Biostatistics and Epidemiology Seminar Series, Department of Community and Family Medicine, Dartmouth Medical School. Dartmouth, NH, May 1997.

Issues in Utilizing Intermediate Endpoints in Chemoprevention Studies. American Society of Preventive Oncology 21st Annual Meeting. New Orleans, LA, March 1997.

Colon Cancer, Colorectal Epithelial Cell Proliferation, and Risk Factors for Colon Neoplasia. Department of Epidemiology and Biostatistics Seminar Series, School of Public Health, University of South Carolina. Columbia, SC, February 1997.

Incorporating Intermediate Endpoints for Cancer Research in Assessing Causality: Examples from Assessing the Calcium-Colon Cancer Association. South Carolina Cancer Center Seminar Series, University of South Carolina. Columbia, SC, February 1997.

Incorporating Intermediate Endpoints for Cancer Research in Assessing Causality: Examples from Assessing the Calcium-Colon Cancer Association. Biological Sciences Seminar Series, School of Public Health, University of Texas Health Sciences Center - Houston. Houston, TX, January 1997.

Human Studies of Calcium Supplementation and Colorectal Cell Proliferation. 1st World Congress on Calcium and Vitamin D in Human Life. Sponsored by the Food and Agricultural Organization of the United Nations (FAO), the World Health Organization (WHO), and the Italian National Federation for Osteoporosis Centers. Rome, Italy, October 1996.

Calcium and Vitamin D Intake and Ischemic Heart Disease Mortality Among Postmenopausal Women. 1st World Congress on Calcium and Vitamin D in Human Life. Sponsored by the Food and Agricultural Organization of the United Nations (FAO), the World Health Organization (WHO), and the Italian National Federation for Osteoporosis Centers. Rome, Italy, October 1996.

Antioxidant Vitamins in Cancer Prevention: Focus on Antioxidants and Colon Neoplasia. Minisymposium on Nutrition and Cancer. Washington State University, Pullman, WA, April 1995.

Calcium and Colon Neoplasia: Observation and Intervention. Fred Hutchinson Cancer Research Center, Seattle, WA, April 1995.

The Role of Intermediate Endpoints and Biomarkers in Cancer Research. Keynote talk for The 3rd Annual North Carolina Cancer Research Symposium. Winston-Salem, NC, March 1995.

Calcium: A Role in Prevention of Colon Cancer? Piedmont Oncology Association 15th Annual Symposium. Savannah, GA, October 1994.

Antioxidants and Colon Neoplasia. Putting Recent Studies into Scientific Perspective, Council for Responsible Nutrition Annual Conference. Dana Point, CA, September 1994.

Biomarkers of Black-White Differences in Prostate Cancer. Biotechnology Transfer to Epidemiologic Studies in Cancer, National Institute of Environmental Health Sciences. Research Triangle Park, NC, September 1994.

Fellows' Seminar: Strategic Planning in Fellowship - How to Establish a Research Base and Develop Funding. The Society of Teachers of Family Medicine 24th Annual Spring Conference. Philadelphia, PA, May 1991.

**TEACHING:** Emory University

Advisees: Graduates – 8 post-doctoral fellows, 15 PhD (dissertation chair), 74 MPH/MSPH (thesis chair) (Table of Trainees available upon request)

Instructor, EPI 730 – Epidemiology Grant Writing, Rollins School of Public Health, Spring, 2011 – 2018 (elective, 2 credit hours) (developed, directed and taught).

Instructor, EPI 553 – Writing and Presenting Epidemiologic Research, Rollins School of Public Health, Fall 2012 – 2018 (elective, 2 credit hours) (developed, directed and taught).

Instructor, EPI 559 – Advanced Designing and Implementing Epidemiologic Studies, Rollins School of Public Health, Spring 2016 – Spring 2021 (elective, 2 credit hours) (developed, directed and taught).

Instructor, EPI 743 – The Epidemiology of Cancer, Rollins School of Public Health, Fall 2007 – 2014 (elective, 2 credit hours).

Co-Instructor, EPI 590R – Advanced Topics in Cancer Epidemiology, Rollins School of Public Health, Spring 2015 (elective, 2 credit hours) (co-developed, co-directed and taught).

Co-Instructor, Journal Club for Masters Candidates, Rollins School of Public Health, Winter 2008 (elective, 1 credit hour).

Instructor, EPI 790R PhD Journal Club: “Epidemiology Doctoral Seminar: Grant Writing”, Rollins School of Public Health, Fall 2005 (required, 1.0 credit hour).

MPH and PhD in Epidemiology research advisor, Rollins School of Public Health, 2003 to December 31, 2021.

PhD in Nutrition Health Sciences, Laney Graduate School

Research advisor, 2005 to December 31, 2021

Executive Committee, 2013 to 2020

Department of Epidemiology Applied Practical Experience (APE) Advisor, 2020 – 2021

RSPH Executive MPH (EMPH) Program Applied Epidemiology Thesis Advisor, 2020 – 2021

Molecules to Mankind Program (M2M), Laney Graduate School

Co-leader, Biomarkers and the Development of Acute and Chronic Diseases track, 2014 to 2020

Graduate Faculty, School of Medicine/Laney Graduate School, Medical Scientist Training Program (“MD-PhD program”), 2014 - December 31, 2021

RSPH Genetic and Molecular Epidemiology Certificate Program, Faculty, 2016 – December 31, 2021

Lecturing in various courses, Rollins School of Public Health, 2003 to 2021.

Lecturing in various courses, Division of Biological and Biomedical Sciences, Graduate School of Arts and Sciences, 2005 to 2021.

Various special seminars in the Winship Cancer Institute, the School of Medicine, and the Rollins School of Public Health, 2003 to 2021.

University of South Carolina

Advisees: Graduates – 1 post-doctoral fellow, 2 PhD (dissertation chair), 4 MPH (thesis chair)

Precepting family practice residents in family practice clinic, School of Medicine, 1998 to 2003.

Precepting preventive medicine residents, Population-Based Research, School of Medicine, 1998 to 2003.

MPH and PhD in Epidemiology research advisor, School of Public Health, 1998 to 2003.

MS advisor in Genetic Counseling, School of Medicine, 2002 to 2003.

Undergraduate Summer Research Program advisor, 2000, 2002, 2003.

EPID 794 Molecular Epidemiology, School of Public Health (elective, 3 credit hours).

Instructor, Fall 2001

Lecturer, Spring 1999

EPID 746 Cancer Epidemiology, School of Public Health (elective, 3 credit hours).

Instructor, Winter/Spring 2002

Lecturer, 1998, 1999, 2000, 2002

Co-instructor, EPID 741 Epidemiologic Methods I, School of Public Health (required, 3 credit hours), Spring 1999.

Lecturer, Pathology 710 Neoplasia, School of Medicine, Fall 2000.

Lecturer, EPID 742 Epidemiologic Concepts in Selected Diseases or Health Conditions, School of Public Health, Spring 2000.

Lecturer, EPID 794/HPRE 792 Women’s Health Across the Life Cycle, School of Public Health, Fall 1999.

Various special seminars in Family and Preventive Medicine, the South Carolina Cancer Center, and Epidemiology and Biostatistics, 1998-2003.

Bowman Gray School of Medicine of Wake Forest University

Advisees: Graduates – 2 post-doctoral fellows

Principal Investigator, Intervention Research Training for Cancer Prevention, a NCI-funded postdoctoral fellowship training grant to support cancer prevention research training for two new persons per year for training periods of up to three years, 1995 to 1998.

Precepted family practice residents in family practice clinic, 1994 to 1998.

Community Medicine, Unit II, a required one semester, 2 credit hour course for second year traditional track medical students.

Co-instructor, Winter 1998 (co-redeveloped, co-directed, and co-taught)

Lecturer, Winter 1996, Winter 1997

Group Discussion Leader, Winter 1995, Winter 1996, Winter 1997

Instructor, Clinical Epidemiology and Journal Club, a required one semester, 2 credit hour course for second year parallel curriculum track medical students, 1995/1996, 1996/1997, 1997/1998.

Instructor, Epidemiology 721 and 722, Research Methods and Issues I & II, a required 1 credit hour per semester for two semesters course series for graduate students, Fall 1997, Spring 1998 (redeveloped, directed, and taught).

Instructor, Epidemiology 415, Research Grant Preparation, a one semester, 3 credit hour course for graduate students, Summer 1995, Fall 1996.

Instructor, Epidemiology 403, Topics in Cancer Epidemiology, a one semester, 1 credit hour course. Developed the course and taught it Fall 1996.

MPH in Epidemiology Advisor, 1994 to 1998.

Research Advisor, Cancer Prevention Fellows (postdoctoral), 1994 to 1998.

Lecturer, Epidemiology II, 1994 to 1998.

Various special seminars in Public Health Sciences, Family and Community Medicine, Gastroenterology, and the Comprehensive Cancer Center of Wake Forest University, 1994 to 1998.

University of Minnesota

Advisees: Graduates – 2 MPH (thesis chair)

Instructor, FPCH 5960, Introduction to Research in Family Medicine, a one semester, 4 credit hour course for postdoctoral fellows and junior faculty, redeveloped the course and taught it Summer Session II, 1991, 1992, 1993. Prior to that was Co-instructor, Summer Session II, 1990.

Precepted family practice residents in family practice clinic, School of Medicine, 1990 to 1994.

Co-instructor, Epidemiology I, a one semester, 4 credit hour course for graduate students, University of Minnesota, Fall 1990, Winter 1994.

Guest lecturing in Preventive Medicine Seminar, Epidemiology I, Epidemiology II, Cancer Epidemiology courses, University of Minnesota, 1990 to 1994. 1994.

Various special seminars and workshops in Family Practice and Community Health, Epidemiology, Food Science and Nutrition, and the University of Minnesota Cancer Center, University of Minnesota, 1990-1994.

MPH in Epidemiology Advisor, School of Public Health, 1990 to 1994.

Research Advisor, family practice research fellows (postdoctoral) and residents, School of Medicine, 1990 to 1994.

Advisor, Foundation of Preventive Medicine, 1 credit hour course for medical students, School of Medicine, 1991.

Medical University of South Carolina

Precepted family practice residents and medical students part time in the Department of Family Medicine family practice clinic and in my private group practice, 1979 to 1981.

National

Faculty/Lecturer/Small Group Leader, Society of Teachers of Family Medicine Research Skills Workshop, Seattle, WA, April 28, 1999.

Guest lecturer, Principles and Practice of Cancer Prevention and Control Course, Cancer Prevention Fellowship Program, Division of Cancer Prevention and Control, National Cancer Institute, 1997, 2000.

**ACADEMIC SERVICE:** Research Journal Activities

*Cancer Epidemiology, Biomarkers & Prevention*

Senior Editor, 2011 to 2019

Associate Editor, 1998 to 2003

Editorial Board, 1995 to 2019

*Epidemiologic Reviews*, Editorial Committee, 2016 to 2017

*Archives of Family Medicine,* Editorial Board, 1995 to 2001

*Biomarker Insights*, Editorial Board, 2006 to 2015

*The Open Epidemiology Journal*, Editorial Board, 2007 to 2015

Reviewer for:

*American Journal of Clinical Nutrition*

*American Journal of Epidemiology*

*American Journal of Medicine*

*Archives of Family Medicine*

*Cancer*

*Cancer Causes and Control*

*Cancer Detection and Prevention*

*Cancer Epidemiology, Biomarkers & Prevention*

*Cancer Research*

*Clinical Cancer Research*

*Epidemiology*

*Epidemiologic Reviews*

*European Journal of Nutrition*

*Gastroenterology*

*International Journal of Cancer*

*International Journal of Epidemiology*

*Journal of Nutrition*

*Journal of the National Cancer Institute*

*Mutation Research*

*Nature Clinical Practice Gastroenterology & Hepatology*

*Nutrition and Cancer*

*PLoS One*

*Preventive Medicine*

Grant Reviewing

Emory WHSC Synergy Awards, 2016 - 2021

University of Cyprus Grants Program, April 2016

Emory Winship Cancer Institute Small Grants Programs, 2003 – 2021.

American Cancer Society Institutional Research Grant Program, 2015 – 2021.

HMO Cancer Research Network, review of letters of intent, May, 2013.

Review of the Occupational and Environmental Branch Intramural Research Program of the National Cancer Institute’s Division of Cancer Epidemiology and Genetics. Bethesda, MD, June 2011.

VA Special Emphasis – Awards for Clinical Application of Genetics, teleconference June 2010.

American Cancer Society Cancer, Peer Review Committee on Primary Care Physician Awards, Atlanta, GA, July 2009.

American Cancer Society Cancer, Peer Review Committee on Primary Care Physician Awards, Atlanta, GA, July 2008.

National Cancer Institute Special Emphasis Panel/Scientific Review Group 2008/05 ZRG1 ONC-U (92), Cancer Biology and Therapy Pilot Studies, February 2008.

American Cancer Society Cancer, Peer Review Committee on Primary Care Physician Awards, Atlanta, GA, January 2008.

National Cancer Institute Chemo/Dietary Prevention Study Section, Washington, DC, February 2007.

National Cancer Institute Chemo/Dietary Prevention Study Section, Washington, DC, June 2006.

American Cancer Society Cancer, Peer Review Committee on Control Career Development Awards for Primary Care Physicians, Atlanta, GA, January 2006.

National Cancer Institute Initial Review Group, Subcommittee E – Cancer Epidemiology, Prevention & Control; NCI P01 Cancer Prevention Cluster Review. Baltimore, MD, May 2005.

Expert Reviewer/Referee (Selected), Biomedical Research Council and National Medical Research Council joint grant call, Singapore, August 2004.

National Cancer Institute Special Emphasis Panel for “Biology of the Prostate Cancer Prevention Trial” (1 P01 CA108964-01), Scott M. Lippman, Principal Investigator. San Antonio, TX, February 2004.

Correspondent Reviewer, National Cancer Institute Initial Review Group, Scientific Review Group E – Cancer Epidemiology, Prevention & Control. February, 2004.

Expert Reviewer/Referee (Selected), Medical Research Council, London, United Kingdom, May 2003.

National Cancer Institute Scientific Review Subcommittee G - Education. Washington, DC, March 2003.

National Cancer Institute Special Emphasis Panel for “Cooperative Family Registry for Colorectal Cancer Studies” (RFA CA-02-501). Bethesda, MD, March, 2002.

National Cancer Institute Special Emphasis Panel for “Planning Grants for Nutritional Modulation of Genetic Pathways” (RFA CA-01-015). Bethesda, MD, May 2001.

National Cancer Institute Special Emphasis Panel for “Prospective Studies of Diet and Cancer in Men and Women” (2 P01 CA055075), Walter C. Willett, Principal Investigator. Boston MA, October 2000.

National Cancer Institute Special Emphasis Panel, Cancer Prevention Research Small Grant Program. Bethesda, MD, July 2000.

National Cancer Institute Initial Review Group for Norris Comprehensive Cancer Center, University of Southern California (2 P30 CA14089-26). Los Angeles, CA, June 2000.

National Cancer Institute Special Emphasis Panel (ZCA1 GRB-A [M1]) for “Dietary and Hormonal Determinants of Cancer in Women” (1 P01 CA87969-01), Graham A. Colditz, Principal Investigator. Boston, MA, February 2000.

University of South Carolina School of Medicine Research Development Fund, 2000-2003

Mayo Clinic Cancer Center small grant program, external reviewer, 1999.

South Carolina Cancer Center small grant program

Internal reviewer, 1999, 2000, 2003

External reviewer, 1997, 1998

Department of Veterans Affairs Medical Research Service, 1998.

National Cancer Institute Special Review Committee for RFA CA-96-011, “Cooperative Family Registry for Epidemiologic Studies of Colon Cancer,” 1997.

National Cancer Institute of Canada Program Project Review Team to review cancer program project grants, November, 1996.

National Cancer Institute Special Review Committee to review program project application 2 P01 CA55075-06, “Prospective Studies of Diet and Cancer in Men and Women,” Walter Willett, MD, DrPH, Principal Investigator, Boston, MA, 1995.

National Cancer Institute Special Review Committee for RFA CA94-026, “Prevention Clinical Trials Utilizing Intermediate Endpoints and their Modulation by Chemopreventive Agents,” 1995.

Consulting

Consultant, Cancer Control & Population Sciences program of the University of Virginia’s Cancer Center. University of Virginia, Charlottesville, VA, April 2011.

Consultant, American Cancer Society Strategic Planning for Epidemiology, July 2009.

Consultant, NCI Workshop on Vitamin D and Cancer: Current Dilemmas/Future Needs, 2007.

Consultant, NCI-funded R01 grant, Phytoestrogens and Colon Epithelium: A Randomized Trial, Fred Hutchinson Cancer Research Center, Seattle WA, 1997 to 2002.

Consultant, NCI-funded R03 grant, Analysis of an Adenomatous Polyp Case-Control Study, University of Minnesota, 1996 to 1998.

Consultant to the North Carolina Department of Environment, Health, and Natural Resources Advisory Committee on Cancer Coordination and Control in developing The North Carolina Cancer Control Plan, 1996.

Consultant, University of Minnesota Cancer Prevention Research Unit, 1995.

Consultant, NCI Virtual Colonoscopy Workshop, 1995.

Consultant, NCI Workshop on Large Bowel Epithelial Cell Proliferation, 1992.

National and State Organizations

American Society of Preventive Oncology (ASPO)

Board of Directors, 1996 to 2003, 2014 - 2016

Molecular Epidemiology and Environment Special Interest Group

Chair, 2014 – 2016

Vice Chair 2013 – 2014

Reviewer of abstracts submitted to annual meetings, 1994 to 2003

Annual Meeting Program Committee

Member, 1996/1997

Chair, 1997/1998

Chemoprevention Study Group, Chair 1996 to 2003

Annual Meeting Hot Topics Breakfast Session Chair for session on

Chemoprevention, 1997, 1998, 2000, 2001, 2003

1998 Plenary Paper Session Chair

1997 Annual Meeting Symposium Chair for the symposium, “Updates and

Controversies in Cancer Genetics”

1997 Annual Meeting Poster Session Chair for judging poster competition

American Association for Cancer Research (AACR)

Reviewer of abstracts submitted to annual meetings, 2010

Molecular Epidemiology Group, member 2004 – 2021

Society of Teachers of Family Medicine

Member, Nutrition Education Working Group, 1990-2003

Member, Fellows Working Group, 1990-1992, Co-Chair 1991

Member, Faculty Development Task Force, 1991-2003

Research Forum Discussant, Annual Spring Conference, 1999

Society for Epidemiologic Research

Reviewer of abstracts submitted to annual meeting, 1995

South Carolina Department of Health and Environmental Control (DHEC)

Cancer Control Advisory Committee, 1999-2003

Colorectal Cancer Subcommittee, 2000-2003

Chair, Surveillance Subcommittee, 2001-2003

South Carolina Cancer Alliance, 2002-2003

Minnesota Academy of Family Physicians

Research Network Steering Committee, 1992-1994

Academic Institutions – Emory University

Winship Cancer Institute

Program Leader, Cancer Prevention & Control, 2008 – 2015.

Focus Group Leader, Epidemiology, Biomarkers & Chemoprevention group, 2007 – 2021.

Active Member, 2003 – 2021.

Member of multiple committees (e.g., Executive, Research Council, Membership, Shared Equipment, Strategic Planning, Microscopy Shared Resource, Annual Retreat, various search committees, and others)

Co-Chair, Data Management Shared Resource, 2015.

Executive Committee, American Cancer Society Institutional Research Grant Program, 2015.

Appointments, Promotion, and Tenure Committee (APT), Rollins School of Public Health. At-Large Member, 2005 – 2017.

Chair, 2012 – 2017.

Education Committee, Rollins School of Public Health, 2016 – 2019.

Academic Standards Committee, Rollins School of Public Health, 2016 – 2019.

Research Advisory Committee, Rollins School of Public Health, 2004 – 2015.

Faculty Council, Rollins School of Public Health, Representative for Department of Epidemiology and RSPH APT Committee, 2012 – 2017.

Faculty Advisor, Rollins Association for Cancer Prevention and Control (RACPAC), 2015 (founding) – 2017.

Director of Graduate Studies – Masters Programs, Department of Epidemiology, Rollins School of Public Health, 2012 – 2019.

Director (Acting) Department of Epidemiology Applied Practical Experience Program, Rollins School of Public Health, 2020 – 2021.

Cancer Epidemiology Faculty Lead, 2003 – 2021.

MPH in Epidemiology Program Committee, Department of Epidemiology, Rollins School of Public Health, 2010 – 2019.

Chair, 2012 – 2019.

Co-Chair, 2011 – 2012.

Department of Epidemiology Curriculum Review Committee, 2015 – 2018

Chair, 2015 - 2018

Department of Epidemiology Faculty Mentoring Committee, 2014 – 2021.

PhD in Epidemiology Curriculum Committee, Department of Epidemiology, Rollins School of Public Health, 2010 – 2013.

PhD in Epidemiology Admissions Committee, Department of Epidemiology, Rollins School of Public Health, 2010 – 2014.

PhD in Epidemiology Qualifying Examination Committee, Department of Epidemiology, Rollins School of Public Health, 2011 – 2013.

Emory Biomarker Service Center Steering Committee, 2008 – 2012.

Center for Clinical and Molecular Nutrition

Internal Advisory Board, 2003 – 2008.

WHSC Operating Group on the Clifton and Midtown Redevelopment Project Interdisciplinary Centers and Future Diagnostics, 2007.

Ad Hoc Committee on Grant Processing, Emory University, 2005 – 2006.

IRB Service and Productivity Assessment Ad Hoc Committee, Emory University, 2006.

CTSA Core Laboratories Committee, 2006 – 2008.

Faculty Opportunity Committee for Strategic Planning, 2004.

Predictive Health and Society Brainstorming Committee for the Emory University Strategic Planning Steering Committee, 2005.

General Clinical Research Center (GCRC) Core Laboratory Advisory Committee, School of Medicine, 2005 – 2008.

SPH Database User Group, Rollins School of Public Health, 2005 - 2008

Behavioral Epidemiology Committee, Department of Epidemiology, 2003 – 2004.

Various search committees, 2003 – 2021.

Chair, Cancer Genetic/Molecular Epidemiologists, 2012 (successfully recruited 3 faculty members: 2 full professors and 1 assistant professor)

Academic Institutions - University of South Carolina

South Carolina Cancer Center

Director, Division of Population Sciences, 1998 - 2003.

Director, Processing and Biomarkers Research Core Laboratory.

Program Leader, Colon Cancer Prevention Program.

Executive Committee.

Multiple Cancer Center committees as member or chair.

Tenure and Promotion Committee, University of South Carolina School of Medicine.

Research Advisory Council, University of South Carolina, 1998 -1999.

Research Advisory Committee, School of Medicine, 2000 - 2003.

Health Research Computing Center Steering Committee, 1998 -2000.

Research Strategic Planning Committee, School of Medicine, 2001.

LCME Institutional Self-Study Task Force - Research Committee, School of Medicine, 2001.

Faculty Development Committee, University of South Carolina School of Medicine, 1999 - 2002.

Ad Hoc Committee on Peer Evaluation, 1999-2000.

Peer Evaluator, University of South Carolina School of Medicine, 2000.

Research Team, Department of Family and Preventive Medicine, School of Medicine, 1998 to 2003.

Faculty Development Team, Department of Family and Preventive Medicine, School of Medicine, 1998 to 2003.

Preventive Medicine Residency Advisory Committee, Department of Family and Preventive Medicine, School of Medicine, 2000.

Search Committees: Assistant Director for Health Services Research, Center for Health Services & Policy Research; Director of Clinical Studies, South Carolina Cancer Center; Director of Translational Research, South Carolina Cancer Center; and others.

Academic Institutions - Bowman Gray School of Medicine of Wake Forest University

Program Leader, Cancer Epidemiology and Prevention Program,

Comprehensive Cancer Center of Wake Forest University, 1994 to 1998.

Epidemiology Graduate Program Steering Committee, 1995 to 1998.

Communications and Public Relations Committee, Center for Research on Human Nutrition and Chronic Disease Prevention of Wake Forest University, 1995 to 1998.

Curriculum 2002 Committee, 1996 to 1998 (medical school committee to overhaul the curriculum for educating medical students beginning for those entering Bowman Gray in 1998, i.e., class of 2002).

Faculty Recorder, Division of Epidemiology, Department of Public Health Sciences, 1996 to 1997.

Search Committees: Cancer Faculty, Division of Epidemiology Administrative Coordinator, and others.

Academic Institutions - University of Minnesota

University of Minnesota Department of Family Practice and Community Health

Coordinator, Research Program, 1994

Committee for Review of Industry-Sponsored Research Grants, Contracts, and

Gifts, 1991-1994

Task Force on Undergraduate Education, 1993

Department Self-Study Committee for Medical School Accreditation, 1990

Search Committees: Program Director, Geriatric Faculty, Department Vice

Chair, and others.

University of Minnesota Division of Epidemiology

ECG Coding Services Committee, 1991-1992

MPH Admissions Committee, 1991-1994

Laboratory Services Committee, 1992-1994

Search Committees: Cancer Faculty, Academic Administrative Coordinator,

and others.

**PUBLICATIONS:**

\* Designates articles for which I was not first author but was principal investigator/advisor/senior author

§ Designates student/trainee for whom I was the principal advisor

Published and Accepted Peer-Reviewed Journal Articles

1. **Bostick RM**, Luepker RV, Kofron PM, Pirie PL. Changes in physician practice for the prevention of cardiovascular disease. *Arch Intern Med* 1991; 151:478-484.

2. **Bostick RM**, Pirie P, Luepker RV, Kofron PM. Using physician caller follow-ups to improve the response rate to a physician telephone survey: Its impact and its implications. *Eval Health Prof* 1992; 15:420-433.

3. Melnick SL, Sprafka JM, Laitinen DL, **Bostick RM**, Flack JM, Burke GL. Antibiotic use in urban whites and blacks: The Minnesota Heart Survey. *Ann Pharmacotherapy* 1992; 26:1292-1295.

4. **Bostick RM**, Sprafka JM, Virnig BA, Potter JD. Knowledge, attitudes and personal practices regarding prevention and early detection of cancer. *Prev Med* 1993; 22:65-85.

5. **Bostick RM**,Potter JD, Fosdick L, Grambsch P, Lampe JW, Wood JR, Louis TA, Ganz R, Grandits G. Calcium and colorectal epithelial cell proliferation: A preliminary randomized, double-blinded, placebo-controlled clinical trial. *J Natl Cancer Inst* 1993; 85:132-141.

6. Sellers TA, Potter JD, Severson RK, **Bostick RM**, Nelson GL, Kushi LH, Folsom AR. Difficulty becoming pregnant and family history as risk factors for postmenopausal breast cancer: The Iowa Women’s Health Study. *Cancer Cause Control* 1993; 4:21-28.

7. Sellers TA, Gapstur SM, Potter JD, Kushi LH, **Bostick RM**, Folsom AR. Association of body fat distribution and family histories of breast and ovarian cancer with risk of postmenopausal breast cancer. *Am J Epidemiol* 1993; 10:799-803.

8. **Bostick RM**, Potter JD, Sellers TA, McKenzie DR, Kushi LH, Folsom AR. Relation of calcium, vitamin D, and dairy food intake to incidence of colon cancer among older women: The Iowa Women’s Health Study. *Am J Epidemiol* 1993; 137:1302-1317.

9. **Bostick RM**, Potter JD, McKenzie DR, Sellers TA, Kushi LH, Steinmetz KA, Folsom AR. Reduced risk of colon cancer with high intake of vitamin E: The Iowa Women’s Health Study. *Cancer Res* 1993; 53:4230-4237.

10. Potter JD, Slattery ML, **Bostick RM**, Gapstur SM. Colon cancer: A review of the epidemiology. *Epidemiologic Reviews* 1993; 15:499-545.

11. Steinmetz KA, Kushi LH, **Bostick RM**, Folsom AR, Potter JD. Vegetables, fruit, and colon cancer in the Iowa Women’s Health Study. *Am J Epidemiol* 1994; 139:1-15.

12. **Bostick RM**, Potter JD, Steinmetz KA, Kushi LH, Sellers TA, McKenzie DR, Gapstur SM, Folsom AR. Sugar, meat, and fat intake and non-dietary risk factors for colon cancer incidence in Iowa women (United States). *Cancer Cause Control* 1994; 5:38-52.

13. Wu Y, Zheng W, Sellers TA, Kushi LH, **Bostick RM**, Potter JD. Dietary cholesterol, fat, and lung cancer incidence among older women: The Iowa Women’s Health Study (United States). *Cancer Cause Control* 1994; 5:395-400.

14. **Bostick RM**, Sprafka JM, Virnig BA, Potter JD. Predictors of cancer prevention attitudes and participation in cancer screening examinations. *Prev Med* 1994; 23:816-826.

15. Sellers TA, Potter JD, Rich SS, Drinkard C, **Bostick RM,** Kushi LH, Zheng W, Folsom AR. Familial clustering of cancers of the breast and prostate and risk of postmenopausal breast cancer. *J Natl Cancer Inst* 1994; 86:1860-1865.

16. Elson RB, Splett PL, **Bostick RM**, Aeppli D, Haberman M. Dietician practices for adult outpatients with hypercholesterolemia referred by physicians: The Minnesota Dietician Survey. *Arch Fam Med* 1994; 3:1073-1080.

17. Grambsch P, Louis T, **Bostick R**, Grandits G, Fosdick L, Darif M, Potter J. Statistical analysis of proliferative index data in clinical trials. *Stats Med* 1994; 13:1619-1634.

18. Kushi LH, Potter JD, **Bostick RM**, Drinkard CR, Sellers TA, Gapstur SM, Cerhan JR, Folsom AR. Dietary fat and risk of breast cancer according to hormone receptor status. *Cancer Epidemiol Biomarker Prev* 1995; 4:11-19.

19. Zheng W, Kushi LH, Potter JD, Sellers TA, Doyle TJ, **Bostick RM**, Bisgard KM, Steinmetz KA, Folsom AR. Dietary intake of energy and animal foods and endometrial cancer incidence: The Iowa Women’s Health Study. *Am J Epidemiol* 1995; 142:388-394.

20. Grambsch PM, Randall BL, **Bostick RM**, Potter JD, Louis TA. Modeling the labeling index distribution: An application of functional data analysis. *J Am Stats Assoc* 1995; 90:813-821.

21. **Bostick RM,** Fosdick L, Wood JR, Grambsch P, Grandits G, Lilliemoe JT, Louis TA, Potter JD. Calcium and colorectal epithelial cell proliferation in sporadic adenoma patients. *J Natl Cancer Inst* 1995; 87:1307-1315.

22. Drinkard CR, Sellers TA, Potter JD, Zheng W, **Bostick RM,** Nelson CL, Folsom AR. Association of body mass index and body fat distribution with risk of lung cancer in older women. *Am J Epidemiol* 1995; 142:600-607.

23. Lin HC, Sotnikov A, Fosdick L, **Bostick RM**, Willett WC. Quantification of proliferating cell nuclear antigen in large intestinal crypt by computer-assisted image analysis. *Cancer Epidemiol Biomarker Prev* 1996; 5:109-114.

24. Kushi LH, Folsom AR, Prineas RJ, Mink PJ, Wu Ying, **Bostick RM**. Dietary antioxidant vitamins and death from coronary heart disease in postmenopausal women. *N Eng J Med* 1996; 334:1156-1162.

25. Roe DJ, Alberts DS, Wargovich MJ, **Bostick RM**, Garewal HS, Einspahr J, Fosdick L, Palmer C, Ramsey L, McGee DL. Reproducibility of the measurement of colonic proliferation using bromodeoxyuridine across laboratories. *Cancer Epidemiol Biomarker Prev* 1996; 5:349-353.

26. McPherson CP, Sellers TA, Potter JD, **Bostick RM**, Folsom AR. Reproductive factors and risk of endometrial cancer: The Iowa Women’s Health Study. *Am J Epidemiol* 1996; 143:1195-1202.

27. Potter JD, **Bostick RM**, Grandits GA, Fosdick L, Elmer P, Wood J, Grambsch P, Louis TA. Hormone replacement therapy is associated with lower risk of adenomatous polyps of the large bowel: the Minnesota CPRU case-control study. *Cancer Epidemiol Biomarker Prev* 1996; 5:779-784.

28. Einsphar JG, Alberts DS, Gapstur SM, **Bostick RM**, Emerson SS, Gerner EW. Surrogate endpoint biomarkers as measures of colon cancer risk and their use in cancer chemoprevention trials. *Cancer Epidemiol Biomarker Prev* 1997; 6:37-48.

29. \*Kimmick GG, Bell RA, **Bostick RM**. Vitamin E and breast cancer. *Nutr Cancer* 1997; 27:109-117.

30. **Bostick RM**, Fosdick L, Lillemoe TJ, Overn P, Wood JR, Grambsch P, Elmer P, Louis TA, Potter JD. Methodologic findings and considerations for measuring colorectal epithelial cell proliferation in humans. *Cancer Epidemiol Biomarker Prev* 1997; 6:931-942.

31. **Bostick RM**. Human studies of calcium supplementation and colorectal epithelial cell proliferation. *Cancer Epidemiol Biomarker Prev* 1997; 6:971-980.

32. **Bostick RM**, L, Grandits GA, Lillemoe TJ, Wood JR, Grambsch P, Louis T, Potter J. Colorectal epithelial cell proliferative kinetics and risk factors for colon cancer in sporadic adenoma patients. *Cancer Epidemiol Biomarker Prev* 1997; 6:1011-1019.

33. **Bostick RM**, Boldt M, Darif M, Wood JR, Overn P, Potter JD. Calcium and colorectal epithelial cell proliferation in ulcerative colitis. *Cancer Epidemiol Biomarker Prev* 1997; 6:1021-1027.

34. Zheng W, Anderson KE, Kushi LH, Sellers TA, Greenstein J, Hong C-P, Cerhan JR, **Bostick RM**, Folsom AR. A prospective cohort study of intake of calcium, vitamin D, and other micronutrients in relation to incidence of rectal cancer among postmenopausal women. *Cancer Epidemiol Biomarker Prev* 1998; 7:221-225.

35. Sellers TA, Bazyk AE, **Bostick RM**, Kushi LH, Olson JE, Anderson KE, Lazovich D, Folsom AR. Diet and risk of colon cancer in a large prospective study of older women: an analysis stratified on family history (Iowa, United States). *Cancer Cause Control* 1998; 9:357-367.

36. **Bostick RM**, Kushi LH, Wu Y, Meyer K, Sellers TA, Folsom AR. Relation of calcium, vitamin D, and dairy food intake to ischemic heart disease mortality among postmenopausal women. *Am J Epidemiol* 1999; 149:151-161.

37. Potter JD, Bigler J, Fosdick L, **Bostick RM**, Kampman E, Chen C, Louis TA, Grambsch P. Colorectal adenomatous and hyperplastic polyps: smoking and N-acetyltransferase 2 polymorphisms. *Cancer Epidemiol Biomarker Prev* 1999; 8:69-75.

38. Ulrich CM, Kampman E, Bigler J, Schwartz S, Chen C, **Bostick R**, Fosdick L, Beresford S, Yasui Y, Potter JD. Colorectal adenomas and the C677T MTHFR polymorphism: evidence for a gene-environment interaction? *Cancer Epidemiol Biomarker Prev* 1999; 8:659-668.

39. **Bostick RM**, Fosdick L, Grandits G, Grambsch P, Gross M, Louis TA, Potter JD. Effect of calcium supplementation on serum cholesterol and blood pressure: a randomized, double-blinded, placebo-controlled clinical trial. *Arch Fam Med* 2000; 9:31-38.

40. Blazer DG, Umbach DM, **Bostick RM**, Taylor JA. Vitamin D receptor polymorphisms and prostate cancer. *Mol Carcinogenesis* 2000; 27:18-23.

41. Gao Y-T, Shu X-O, Dai Q, Potter JD, Brinton LA, Wen W, Sellers TA, Kushi LH, Ruan Z, **Bostick RM**, Jin F, Zheng W. Association of menstrual and reproductive factors with breast cancer risk: results from the Shanghai Breast Cancer Study. *Int J Cancer* 2000; 87:295-300.

42. Ulrich CM, Kampman E, Bigler J, Schwartz SM, Chen C, **Bostick R**, Fosdick L, Beresford SA, Yasui Y, Potter JD. Lack of association between the C677T MTHFR polymorphism and colorectal hyperplastic polyps. *Cancer Epidemiol Biomarker Prev* 2000; 9:427-433.

43. Bigler J, Whitton J, Lampe JW, Fosdick L, **Bostick RM**, Potter JD. CYP2C9 and UGT1A6 genotypes modulate the protective effect of aspirin on colon adenoma risk. *Cancer Res* 2001; 61:3566-3569.

44. Ulrich CM, Bigler J, Whitton JA, **Bostick RM**, Fosdick L, Potter JD. Epoxide hydrolase Tyr113His polymorphism is associated with elevated risk of colorectal polyps in the presence of smoking and high meat intake. *Cancer Epidemiol Biomarker Prev* 2001; 10:875-882.

45. Kim HS, Newcomb PA, Ulrich CM, Keener CL, Bigler J, Farin FM, **Bostick RM**, Potter JD. Vitamin D receptor polymorphism and the risk of colorectal adenomas: evidence of interaction with dietary vitamin D and calcium. *Cancer Epidemiol Biomarker Prev* 2001; 10:869-874.

46. Smith-Warner SA, Elmer PJ, Fosdick L, Randall B, **Bostick RM**, Grandits G, Grambsch P, Louis T, Wood J, Potter J. Fruits, vegetables, and adenomatous polyps: the Minnesota Cancer Prevention Unit case-control study. *Am J Epidemiol* 2002; 155:1104-1113.

47. Ulrich CM, Bigler J, **Bostick R**, Fosdick L, Potter JD. Thymidylate synthase promoter polymorphism, interaction with folate intake, and risk of colorectal adenomas. *Cancer Res* 2002; 62:3361-3364.

48. Terry MB, Neugut AI, **Bostick RM**, Sandler RS, Haile R, Jacobson JS, Fenoglio-Preiser, Potter JD. Risk factors for advanced colorectal adenomas: a pooled analysis. *Cancer Epidemiol Biomarker Prev* 2002; 11:622-629.

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