

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Walter C. Willett	POSITION TITLE		
eRA COMMONS USER NAME Walter Willett	Professor of Epidemiology and Nutrition Associate Physician		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Michigan State University, East Lansing		1966	Food Science
University of Michigan Medical School, East	MD	1970	Medicine
Harvard School of Public Health	MPH	1973	Public Health
Harvard School of Public Health	DrPH	1980	Epidemiology

A. Positions and Honors.Positions:

- 1971-73 Physician in Charge of Adult Medicine, East Boston Health Center, and Fellow in Family and Ambulatory Medicine, Harvard Medical Service, Boston City Hospital
- 1974-75 Lecturer in Medicine, University Dar es Salaam
- 1975-77 Lecturer in Community Medicine and Head of the Community Health Department, University of Dar es Salaam, Tanzania
- 1977-80 Fellow in Clinical Epidemiology, Channing Laboratory, Harvard Medical School
- 1980-84 Assistant Professor of Epidemiology, Harvard School of Public Health
- 1982- Associate Physician, Brigham and Women's Hospital
- 1984-88 Associate Professor of Epidemiology, Harvard School of Public Health
- 1988- Professor of Epidemiology and Nutrition, Harvard School of Public Health
- 1991- Chairman, Department of Nutrition, Harvard School of Public Health
- 1992- Professor of Medicine, Harvard Medical School

Awards and Honors:

- 1996 John Snow Award, APHA
- 1997 International Award for Modern Nutrition
- 1998 National Academy of Sciences, Institute of Medicine
- 2000 Ninth AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention
- 2000 The Breast Cancer Research Foundation's Jill Rose Award for Outstanding Breast Cancer Research
- 2001 The Charles S. Mott Prize for Most Outstanding Recent Contribution Related to the Cause or Prevention of Cancer. General Motors Cancer Research Foundation
- 2003 Linus Pauling Institute Prize for Health Research/Functional Medicine Award
- 2003 Komen Foundation's Brinker Award for Scientific Distinction
- 2004 Honda Prize for Echo-Technology
- 2004 V Grande Covian Award, 2004
- 2005 Smith Barney 2005 Extraordinary Achievement Award
- 2005 25th Annual Bristol Myers Squibb/Mead Johnson 'Freedom To Discover' Award for Distinguished Achievement in Nutrition Research
- 2005 Medal of Honor, American Cancer Society
- 2006 Tore Andersson Award of Epidemiologic Research, Karolinska Institutet, Stockholm, Sweden

B. Selected peer-reviewed publications (in chronological order) (Selected from over 900 original articles).

1. Platz EA, Leitzmann MF, Hollis BW, Willett WC, Giovannucci E. Plasma 1,25-dihydroxy- and 25-hydroxyvitamin D and subsequent risk of prostate cancer. *Cancer Causes Control* 2004;15(3):255-65.

2. Cho E, Smith-Warner SA, Ritz J, van den Brandt PA, Colditz GA, Folsom AR, Freudenheim JL, Giovannucci E, Goldbohm RA, Graham S, Holmberg L, Kim DH, Malila N, Miller AB, Pietinen P, Rohan TE, Sellers TA, Speizer FE, Willett WC, Wolk A, Hunter DJ. Alcohol intake and colorectal cancer: a pooled analysis of 8 cohort studies. *Ann Intern Med* 2004;140(8):603-13.
3. Leitzmann MF, Stampfer MJ, Michaud DS, Augustsson K, Colditz GC, Willett WC, Giovannucci EL. Dietary intake of N-3 and N-6 fatty acids and the risk of prostate cancer. *Am J Clin Nutr* 2004;80(1):204-16.
4. Cho E, Smith-Warner SA, Spiegelman D, Beeson WL, van den Brandt PA, Colditz GA, Folsom AR, Fraser GE, Freudenheim JL, Giovannucci E, Goldbohm RA, Graham S, Miller AB, Pietinen P, Potter JD, Rohan TE, Terry P, Toniolo P, Virtanen MJ, Willett WC, Wolk A, Wu K, Yaun S-S, Zeleniuch-Jacquotte A, Hunter DJ. Dairy foods, calcium, and colorectal cancer: A pooled analysis of 10 cohort studies. *J Natl Cancer Inst* 2004;96:1015-22.
5. Webb PM, Byrne C, Schnitt SJ, Connolly JL, Jacobs TW, Baer HJ, Willett WC, Colditz GA. A prospective study of diet and benign breast disease. *Cancer Epidemiol Biomarkers Prev* 2004;13(7):1106-13.
6. Oh K, Willett WC, Fuchs CS, Giovannucci EL. Glycemic index, glycemic load, and carbohydrate intake in relation to risk of distal colorectal adenoma in women. *Cancer Epidemiol Biomarkers Prev* 2004;13(7):1192-8.
7. Skinner HG, Michaud DS, Giovannucci EL, Rimm EB, Stampfer MJ, Willett WC, Colditz GA, Fuchs CS. A prospective study of folate intake and the risk of pancreatic cancer in men and women. *Am J Epidemiol* 2004;160(3):248-58.
8. Hung HC, Joshipura KJ, Jiang R, Hu FB, Hunter D, Smith-Warner SA, Colditz GA, Rosner B, Spiegelman D, Willett WC. Fruit and vegetable intake and risk of major chronic disease. *J Natl Cancer Inst* 2004;96(21):1577-84.
9. Wu K, Hu FB, Fuchs C, Rimm EB, Willett WC, Giovannucci E. Dietary patterns and risk of colon cancer and adenoma in a cohort of men (United States). *Cancer Causes Control* 2004;15(9):853-62.
10. Hu FB, Willett WC, Li T, Stampfer MJ, Colditz GA, Manson JE. Adiposity as compared with physical activity in predicting mortality among women. *N Engl J Med* 2004;351(26):2694-703.
11. Adebamowo CA, Cho E, Sampson L, Katan MB, Spiegelman D, Willett WC, Holmes MD. Dietary flavonols and flavonol-rich foods intake and the risk of breast cancer. *Int J Cancer* 2005;114(4):628-33.
12. Michaud DS, Fuchs CS, Liu S, Willett WC, Colditz GA, Giovannucci E. Dietary glycemic load, carbohydrate, sugar, and colorectal cancer risk in men and women. *Cancer Epidemiol Biomarkers Prev* 2005;14(1):138-47.
13. Chan AT, Tranah GJ, Giovannucci EL, Willett WC, Hunter DJ, Fuchs CS. Prospective study of N-acetyltransferase-2-genotypes, meat intake, smoking and risk of colorectal cancer. *Int J Cancer* 2005;648-52.
14. Fung TT, Hu FB, Holmes MD, Rosner BA, Hunter DJ, Colditz GA, Willett WC. Dietary patterns and the risk of postmenopausal breast cancer. *Int J Cancer* 2005; 116(1):116-21.
15. Michaud DS, Skinner HG, Wu K, Hu F, Giovannucci E, Willett WC, Colditz GA, Fuchs CS. Dietary patterns and pancreatic cancer risk in men and women. *J Natl Cancer Inst* 2005;97(7):518-24.
16. Oh K, Willett WC, Fuchs CS, Giovannucci E. Dietary marine n-3 fatty acids in relation to risk of distal colorectal adenoma in women. *Cancer Epidemiol Biomarkers Prev* 2005;14(4):835-41.
17. Michels KB, Fuchs CS, Giovannucci E, Colditz GA, Hunter DJ, Stampfer MJ, Willett WC. Fiber intake and incidence of colorectal cancer among 76,947 women and 47,279 men. *Cancer Epidemiol Biomarkers Prev* 2005;14(4):842-9.
18. Wei EK, Giovannucci E, Fuchs CS, Willett WC, Mantzoros CS. Low plasma adiponectin levels and risk of colorectal cancer in men: a prospective study. *J Natl Cancer Inst* 2005;97(22):1688-94.
19. Fung TT, Hu FB, McCullough ML, Newby PK, Willett WC, Holmes MD. Diet quality is associated with the risk of estrogen receptor-negative breast cancer in postmenopausal women. *J Nutr* 2006;136(2):466-72.
20. Chan JM, Holick CN, Leitzmann MF, Rimm EB, Willett WC, Stampfer MJ, Giovannucci EL. Diet after diagnosis and the risk of prostate cancer progression, recurrence, and death (United States). *Cancer Causes Control* 2006;17(2):199-208.
21. Giovannucci E, Liu Y, Stampfer MJ, Willett WC. A prospective study of calcium intake and incident and fatal prostate cancer. *Cancer Epidemiol Biomarkers Prev* 2006;15(2):203-10.

ACTIVE: Brigham and Women's Hospital Administered Grants

P01 CA087969 (Colditz) 04/01/05 – 02/28/10 2.40 calendar
NIH/NCI \$ 2,446,400

Dietary and Hormonal Determinants of Cancer in Women

The overall long-term objective of this Program Project is to identify novel dietary, hormonal and genetic determinants of breast (project 1), colorectal (project 2), and ovarian (project 3) cancer risk in women, with the ultimate aim of finding means for prevention and improved survival. The combination of questionnaire-derived data and biomarkers, coupled with the long-term follow-up, affords the opportunity to further understand of the time course, as well as mechanisms of cancer development.

No number available (Fields) 01/15/06 – 12/31/07 0.24 calendar
NIH \$ 22,153

Weight Cycling and Mortality

This proposal is to assess the association between weight cycling and mortality among adult women in the Nurses' Health Study.

ACTIVE: Harvard School of Public Health Administered Grants

P01 CA055075-13 (Willett) 08/23/91 – 09/30/06 (in extension) 3.12 calendar
NIH/NCI \$ 3,216,325

Prospective Studies of Diet and Cancer in Men and Women

This program project grant of four projects continues the prospective examination of dietary and genetic exposures of cancer in men using data from the Health Professionals Follow-up Study and in women using data from the Nurses' Health Study. One of the projects also is examining the association between dietary factors and colorectal, ovarian, and pancreatic cancer in the Pooling Project of Prospective Studies of Diet and Cancer.

R01 CA050385-16 (Willett) 04/01/04 – 03/31/09 1.80 calendar
NIH/NCI \$ 1,590,074

Risk Factors for Breast Cancer Among Younger Nurses

The purpose of this work is to continue the prospective follow-up of over 116,000 women, born 1946 to 1964, who were enrolled in the study in 1989.

U01 AI045441-05 (Fawzi) 08/15/99 – 07/31/06 (pending extension) 0.24 calendar
NIH/NIAID \$ 296,326

Nutrition, Immunology and Epidemiology of Tuberculosis

The purpose of this project is to study the inter-relationships between nutritional status, immunological and epidemiological parameter in a cohort of patients with clinical TB in Dar es Salaam, Tanzania.

R01 CA067262-07 (Hankinson) 05/10/96 – 02/28/07 0.60 calendar
NIH/NCI \$ 473,582

Premenopausal Hormone Levels and Risk of Breast Cancer

The aim of this study is to collect blood and urine samples from Nurses' Health Study II participants to assess: levels of estrogen, androgens, prolactin, and progesterone and risk of breast cancer; levels of beta-carotene,

R01 HL035464-14 (Rimm) 12/01/85 – 05/31/07 0.24 calendar
NIH/NHLBI \$ 299,053

Dietary Etiologies of Heart Disease and Cancer

A prospective cohort study of diet in relation to heart disease and cancer in men.

R25 CA098566-03 (Stampfer) 07/01/03 – 06/30/08 0.12 calendar

Principal Investigator/Program Director:
(Last, first, middle)

NCI \$ 533,264
Nutritional Epidemiology of Cancer
This program has included major developments in the area of diet and cancer such as the creation of three large cohorts comprising over 250,000 men and women with repeated measures of diet followed for as long as 25 years. Participants in this program will have the opportunity to gain familiarity with other aspects of the broad areas of epidemiology and cancer etiology and prevention that extend beyond the focus of the training grant.

R25 CA 57711-12 (Sorenson) 09/01/04 – 08/31/09 0.12 calendar
NCI \$497,871
Harvard Education Program in Cancer Prevention Control
This program has an eleven-year track record of training pre- and post-doctoral fellows. In each year, the program funds six pre-doctoral fellowships, one post-doctoral fellowship for physicians earning a degree, and three post-doctoral fellowships focused on mentored research.

No Award Number (Willett) 10/01/03 – 12/31/06 (in extension) 0.12 calendar
Breast Cancer Research Foundation \$ 208,000
Early Life Predictors of Risk of Breast Cancer
This project builds on findings from the Nurses' Health Study II project that diet in early adult life and adolescence predicts risk of breast cancer in later years. The aims also extend work presently supported by the BCRF suggesting that hormonal factors in milk may be particularly important.

No Award Number (Willett) 10/01/04 – 12/31/06 (in extension) 0.24 calendar
Breast Cancer Research Foundation \$ 196,427
Hormone Levels in Childhood and Adolescence: Early Life and Risk of Breast Cancer
This project extends investigation of the relationship between early life diet, adiposity, hormonal influences, and later breast cancer risk. Hormonal effects of milk intake using measurements in blood and occurrence of acne as an indicator of tissue response will also be examined.

No Award Number (Willett) 10/01/05 – 09/30/06 0.24 calendar
Breast Cancer Research Foundation \$ 188,033
Risk Factors for Breast Cancer Across the Ages
This project further extends investigation of the relationship between early life diet, adiposity, hormonal influences, and later breast cancer risk. Relative contributions of breast cancer and coronary heart disease in morbidity and mortality by age and important risk factors are also examined.

No Award Number (Willett) 08/01/04 – 07/31/07 (in extension) 0.12 calendar
Entertainment Industry Foundation \$ 151,818
Support for Colorectal Cancer Research
This support allows the pursuance of new leads and in providing preliminary work to obtain larger funding from sponsors, including the NIH, for colorectal cancer prevention research. This program also leads to practical ways to reduce the burden of this disease.

OVERLAP: None