***Curriculum Vitae***

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Date & Place of Birth: April 30, 1959; Batesville, Indiana  Citizenship: United States

## *Education*

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| 1980 | | Queen Elizabeth College, London, England |
| 1981 | A.B. | (Cum Laude) Wabash College, Crawfordsville, IN |
| 1985 | M.D. | Indiana University School of Medicine, Indianapolis, IN |
| 1988 | M.S. | Preventive Medicine, University of Maryland School of Medicine, Baltimore, MD |

## *Board Certification and Licensure*

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| 1990-Pres | Board Certified, Public Health and General Preventive Medicine |
| 1986-Pres | State Medical License: California and Maryland |

## *Employment*

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| 1988-1991 | Epidemiologist, Navy Environmental and Preventive Medicine Unit No. 5, San Diego, CA |
| 1991-pres | Medical Officer, Commissioned Corps, US Public Health Service |
| 1991-1996 | Investigator, Genetic Epidemiology Branch, National Cancer Institute |
| 1996 | Research Fellow, Genetic Epidemiology Branch, National Cancer Institute |
| 1996-1998 | Tenure-track Investigator, Genetic Epidemiology Branch, National Cancer Institute |
| 1998-2001 | Tenure-track Investigator, Laboratory of Population Genetics, National Cancer Institute |
| 2001-pres | Tenured Investigator, Laboratory of Population Genetics, Center for Cancer Research, National Cancer Institute |
| 2002-pres | Adjunct Investigator, Clinical Genetics & Genetic Epidemiology Branches, Division of Cancer Epidemiology and Genetics, National Cancer Institute |

## *Additional Training*

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| 1985-1986 | Internship | Family Practice, Ball Memorial Hospital, Muncie, IN |

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| 1986-1988 | Residency | General Preventive Medicine, University of Maryland, Baltimore, MD |
| 1991 | "Short Course in Medical and Experimental Mammalian Genetics", The Jackson Laboratory and Johns Hopkins University School of Medicine, Bar Harbor, ME | |
| 1991 | NIH Basic Project Officer's Course | |
| 1992 | "Analytic Methods in Human Genetics", 2-credit course, Foundation for Advanced Education in the Sciences, NIH, Bethesda, MD | |
| 2003 | ½-day courses Statistical Analysis with R, Fundamentals of Unix, NIH Center for Information Technology | |
| 2004 | 1 week of course in the Summer Institute in Statistical Genetics, North Carolina State University, Raleigh, NC | |

### *Awards*

1988 Best Student Research Presentation, University of Maryland

1990 Navy Achievement Medal

1991 Navy Commendation Medal

1995 Public Health Service Commendation Medal

1998 Sir Henry Wellcome Award from the Association of Military Surgeons of the United States

1999 Presidential Early Career Award for Scientists and Engineers

2002 Charles Harkin Award for Research in Thyroid Cancer, Co-PI on intramural grant

### *Professional Societies/Activities*

American Society of Human Genetics
Board of Directors, Foundation for Genetic Education and Counseling (2000 – present)
Steering Committee, Genetics, Genomics & Proteomics Faculty, NCI (2001 – present)
Program Committee, Howard Hughes Medical Institute – National Institutes of Health Research Scholars Program (2001-2004)
User Oversight Committee, NCI Core Genotyping Facility (2002-present)
Steering Committee, NIH Intramural Program on Research on Women's Health (2002-present)
Ad Hoc Scientist Reviewer, DOD/Army Congressionally Directed Medical Research Program – Breast Cancer Research Program (2002)
Steering Committee, Breast and Gynecologic Malignancies Faculty, NCI (2003-present)
PDQ Cancer Genetics Editorial Board (2003-present)
Public Health Service, Full and Fair Hearing Board, July 2004
Georgetown-NIH Graduate Partnership Program Admissions Committee (2006)
Commissioned Officer, US Navy (1988-1991), US Public Health Service, (1991-present), Captain (O6)

### *Oral Presentations/Related Activities*

1989 31st Navy Occupational Health and Preventive Medicine Workshop, "Epidemiologic analysis of mass barracks evacuation", Norfolk, VA

1989 National Society of General Internal Medicine Annual Meeting, "Improving colorectal cancer screening in a residents' clinic", Arlington, VA

1989 Surface Force Pacific Continuing Medical Education Series, "An outbreak of PPD reactors on board an aircraft carrier: update of Navy tuberculosis control program", San Diego, CA

1990 Armed Forces Epidemiological Board, "Navy/Marine Corps recruit serosurvey for antibodies to measles, mumps, rubella, and varicella", Washington, DC

1990 32nd Navy Occupational Health and Preventive Medicine Workshop, "Navy/Marine Corps Recruit Serosurvey for antibodies to measles, mumps, rubella, and varicella", Norfolk, VA

1990 Armed Forces Epidemiological Board, Washington, DC, "An epidemic of pneumococcal pneumonia at Camp Pendelton, CA", Washington, DC

1990 Armed Forces Epidemiological Board, "Epidemic measles in San Diego County 1990", Washington, DC

1991 Advisory Committee on Immunization Practices (ACIP), Centers for Disease Control, "Measles, mumps, rubella, and varicella antibody levels among incoming military recruits", Atlanta, GA

1991 San Diego Epidemiology Research Exchange, "Respiratory disease due to Streptococcus spp. among San Diego active duty military populations, 1989-1991", San Diego, CA

1993 University of Maryland Department of Epidemiology and Preventive Medicine, "Genetic Epidemiology of Ovarian Cancer", Baltimore, MD

1996 Instructor, Project LEAD, National Breast Cancer Coalition Educational Course, Washington, DC

1996 Invited Speaker, American Association of Clinical Chemistry Annual Meeting, "*BRCA1* mutational analysis", Chicago, IL

1997 Plenary Speaker, National Breast Cancer Coalition Annual Meeting, "Update on Familial Breast Cancer", Washington, DC

1997 Invited Speaker, University of Kentucky Symposium, "Clinical Aspects of Inherited Breast Cancer", Lexington, KY

1998 Invited Speaker, American Society of Nephrology Annual Meeting, "Clinical Aspects of Genetic Predisposition Testing", San Antonio, TX

1998 Plenary Speaker, San Antonio Breast Cancer Symposium, "Familial breast cancer: *BRCA1* and *BRCA2*", San Antonio, TX

1998 Invited Speaker, University of California San Francisco Cancer Center Annual Symposium, "Update on *BRCA1/2*: Cancer Risk Estimates", San Francisco, CA

1998 Invited Speaker, National Coalition for Health Professional Education in Genetics, "Clinical Cancer Genetics: Breast and Colon Cancer", Washington, DC

1998 Invited Speaker, Ovarian Cancer National Alliance, "Update on *BRCA1/2*", Washington, DC

1998 Invited Speaker, Ohio State University Comprehensive Cancer Center, "*BRCA1/2* and breast cancer: What are the real risks?", Colombus, OH

1999 Invited Speaker, 7th Biennial Forum on Ovarian Cancer, Helene Harris Memorial Trust, "Ovarian cancer penetrance in *BRCA1/2*", Karolinska Institute, Stockholm, Sweden

1999 Invited Speaker, Duke University Cancer Center/Breast Cancer Spore, "*BRCA1/2*: Risky Business", Raleigh, NC

1999 Invited Attendee, National Academy of Sciences "Frontiers of Science" Symposium, Irvine, CA

2000 External Reviewer, University of Alabama at Birmingham, Department of Medicine/Division of Preventive Medicine

2001 Invited Speaker, Tumor Biology Seminar Series, Lombardi Cancer Center, Georgetown University, "Modifiers of *BRCA1/2*", Washington, DC

2002 Invited Speaker, Pediatric Oncology Branch, NCI "The Many Functions of *BRCA1*, Including the Possible Association with X-inactivation ", Bethesda, MD

2003 Invited Poster Discussion Leader, Tumor Biology\Genetics, American Society of Clinical Oncology Annual Meeting, Chicago, IL

2003 Invited Speaker, 4th Annual Conference on Gender-Specific Medicine, Columbia University, "*BRCA1/2* and Breast Cancer", New York, NY

2004 Invited Speaker, 4th Jordan Oncology Conference/ 1st King Hussein Cancer Center - NCI Conference, King Hussein Cancer Center, "Genetic Predisposition to Breast Cancer", Amman, Jordan

2004 Susan Teck Memorial Lecture "*BRCA1/2* and ovarian cancer", George Washington School of Medicine, Washington, DC

## ***BIBLIOGRAPHY***

Book Chapters\Invited Reviews


1. Struewing JP. *BRCA1* in special populations. *Breast Dis* 1998; 10:71-5.

2. Jacobs IJ, Shepherd JH, Oram DH, et al. "The penetrance of *BRCA1/*2 mutations" in Ovarian Cancer. Oxford: Oxford University Press, 2002:427.

3. Struewing JP. Genomic approaches to identifying breast cancer susceptibility factors. *Breast Dis* 2004;19:3-9.


Journal Articles


1. Ash SR, Struewing JP. Clinical trials of column disc peritoneal catheter (Lifecath, TM). *Peritoneal Dialysis Bull* 1983;3:77-80.

2. Epstein RS, Struewing JP, Sharkness CM, Lefkowitz A, Cadigan DA, Flynn JPG, Kessler II. Secular changes in case mix of SCI patients at Montebello. *Maryland Med J* 1988;37:291-6.

3. Epstein RS, Lefkowitz A, Sharkness CM, Struewing JP, Cadigan DA, Kessler II, Flynn JPG. Predictors of rehabilitation outcome among patients with SCI. *Maryland Med J* 1989;38:489-92.

4. Abdel-Wahab MF, Esmat G, Narooz SI, Yosery A, Struewing JP, Strickland GT. Sonographic studies of schoolchildren in a village endemic for Schistosoma mansoni. *Trans Royal Soc Trop Med Hygiene* 1990;84:69-73.

5. Struewing JP, Gray GC. An epidemic of respiratory complaints exacerbated by mass psychogenic illness in a military recruit population. *Am J Epidemiol* 1990;132:1120-9.

6. Gray GC, Escamilla J, Hyams KC, Struewing JP, Kaplan EL, Tupponce AK. Hyperendemic Streptococcus pyogenes infection despite prophylaxis with penicillin G benzathine. *N Engl J Med* 1991;325:92-7.

7. Gray GC, Struewing JP, Clever GC, Kulhenkamp JF. Worst California measles epidemic in twenty-five years. *Navy Med* 1991;82(4):23-5.

8. Struewing JP, Pape DM, Snow DA. Improving colorectal cancer screening in a medical residents' primary care clinic. *Am J Prev Med* 1991;7:75-81.

9. Fujikawa J, Struewing JP, Hyams KC, Kaplan EL, Tupponce AK, Gray GC. Oral erythromycin prophylaxis against *Streptococcus pyogenes* infection in penicillin-allergic military recruits: a randomized clinical trial. *J Infect Dis* 1992;166:162-5.

10. Bassily S, Strickland GT, Abdel-Wahab MF, Esmat GE, Narooz S, el-Masry NA, Constantine NT, Struewing JP. Efficacy of hepatitis B vaccination in primary school children from a village endemic for *Schistosoma mansoni*. *J Infect Dis* 1992;166:265-8.

11. Hyams KC, Struewing JP, Gray GC. Seroprevalence of hepatitis A, B, and C in a United States military recruit population. *Military Med* 1992;157:579-82.

12. Trump, DH, Hyams KC, Cross ER, Struewing JP. Tuberculosis infection among young adults entering the US Navy in 1990. *Arch Intern Med* 1993; 153:211-6.

13. Amos CI, Struewing JP. Genetic epidemiology of epithelial ovarian cancer. *Cancer* 1993;71:566-72.

14. Gray GC, Struewing JP, Escamilla J, Hyams KC, Escamilla J, Tupponce AK, Kaplan EL. Interpreting a single anti-streptolysin O test: a comparison of the "upper limit of normal" and likelihood ratio methods. *J Clin Epidemiol* 1993;46:1181-5.

15. Musher DM, Groover JE, Rowland JM, Watson DA, Struewing JP, Baughn RE, Mufson MA. Antibody to capsular polysaccharides of *Streptococcus pneumoniae*: prevalence, persistence, and response to revaccination. *Clin Infect Dis* 1993;17:66-73.

16. Struewing JP, Hyams KC, Tueller JE, Gray GC. The risk of measles, mumps, and varicella among young adults: a serosurvey of US Navy and Marine Corps recruits. *Am J Public Health* 1993;83:1717-20.

17. Smith SA, DiCioccio RA, Struewing JP, Easton DF, Gallion HH, Mazoyer S, Johansson B, Steichen-Gersdorf E, Stratton M, Ford D, Marshall G, Piver MS, Ponder BA. Localisation of the breast-ovarian cancer susceptibility gene (BRCA1) on 17q12-21 to an interval of $\leq$ 1cM. *Genes, Chromosomes Cancer* 1994;10:71-6.

18. Hussussian CJ*, Struewing JP*, Goldstein AM, Higgins PAT, Ally DS, Sheahan MD, Clark WH Jr., Tucker MA, Dracopoli NC. Germline p16 mutations in familial melanoma. *Nat Genet* 1994;8:15-21.(* contributed equally to work)

19. Narod SA, Ford D, Devilee P, Barkardottir RB, Lynch HT, Smith SA, Ponder BAJ, Weber BL, Garber JE, Birch JM, Cornelis RS, Kelsell DP, Spurr NK, Smyth E, Haites N, Sobol H, Bignon YJ, Chang-Claude J, Hamman U, Lindblom A, Borg A, Piver MS, Gallion HH, Struewing JP, Whittemore A, Tonin P, Goldgar DE, Easton DF, and the Breast Cancer Linkage Consortium. An evaluation of genetic heterogeneity in 145 Breast-Ovarian Cancer Families. *Am J Hum Genet* 1995;56:254-64.

20. Brody LC, Abel KJ, Castilla LH, Couch FJ, McKinley DR, Yin G, Ho PP, Merajver S, Chandrasekharappa SC, Xu J, Cole JL, Struewing JP, Valdes JM, Collins FS, Weber BL. Construction of transcription map surrounding the *BRCA1* locus of human chromosome 17. *Genomics* 1995;25:238-47.

21. Struewing JP, Lerman C, Kase RG, Giambarresi TR, Tucker MA. Anticipated uptake and impact of genetic testing in hereditary breast and ovarian cancer families. *Cancer Epidemiol Biomarkers Prev* 1995;4:169-73.

22. Struewing JP, Watson P, Easton DF, Ponder BAJ, Lynch HT, Tucker MA. Prophylactic oophorectomy in inherited breast/ovarian cancer families. *Monogr Natl Cancer Inst* 1995;17:33-5.

23. Struewing JP, Brody LC, Erdos MR, Kase RG, Giambarresi TR, Smith SA, Collins FS, Tucker MA. Detection of eight *BRCA1* mutations in ten breast/ovarian cancer families, including one family with male breast cancer. *Am J Hum Genet* 1995;57:1-7.

24. Struewing JP, Abeliovich D, Peretz T, Avishai N, Kaback MM, Collins FS, Brody LC. The carrier frequency of the *BRCA1* 185delAG mutation is approximately 1% in Ashkenazi Jewish individuals. *Nat Genet* 1995;11:198-200.

25. Goldstein AM, Fraser MC, Struewing JP, Hussussian CJ, Zametkin DP, Fontaine LS, Organic SM, Dracopoli NC, Clark WH Jr, Tucker MA. Increased risk of pancreatic cancer in melanoma-prone

kindreds with p16(INK4) mutations. *New Engl J Med* 1995;333:970-4.

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27. Struewing JP, Tarone RE, Brody LC, Li FP, Boice JD, Jr. BRCA1 mutations in young women with breast cancer. *Lancet* 1996; 347:1493.

28. Smith KL, Wilson M, Hightower AW, Kelley PW, Struewing JP, Juranek DD, McAuley JB. Prevalence of *Toxoplasma gondii* antibodies in U.S. military recruits in 1989: comparison with data published in 1965. *Clin Infect Dis* 1996; 23:1182-3.

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37. Wacholder S, Hartge P, Struewing JP, Pee D, McAdams M, Brody L, Tucker M. The kin-cohort study for estimating penetrance. *Am J Epidemiol* 1998; 148:623-630.

38. Thorlacius S, Struewing JP, Hartge P, Olafsdottir GH, Sigvaldason H, Tryggvadottir L, Wacholder S, Tulinius H, Eyfjord JE. Population-based study of risk of breast cancer in carriers of *BRCA2* mutation. *Lancet* 1998; 352:1337-1339.

39. Lee JS, Wacholder S, Struewing JP, McAdams M, Pee D, Brody LC, Tucker MA, Hartge P. Survival after breast cancer in Ashkenazi Jewish *BRCA1* and *BRCA2* mutation carriers. *J Natl Cancer Inst* 1999; 91:259-63.

40. Hartge P, Struewing JP, Wacholder S, Brody LC, Tucker MA. The prevalence of common *BRCA1* and *BRCA2* mutations among Ashkenazi Jews. *Am J Hum Genet* 1999; 64:963-970.

41. Sherman ME, Lee JS, Burks RT, Struewing JP, Kurman RJ, Hartge P. Histopathologic features of ovaries at increased risk for carcinoma: a case-control analysis. *Int J Gynecol Pathol* 1999; 18:151-7.

42. Kaufman DJ, Struewing J. Re: Effect of *BRCA1* and *BRCA2* on the association between breast cancer risk and family history. *J Natl Cancer Inst* 1999; 91:1250-1251.

43. Struewing JP, Coriaty ZM, Ron E, Livoff A, Konichezky M, Cohen P, Resnick MB, Lifzchiz-Mercerl B, Lew S, Iscovich J. Founder *BRCA1/2* mutations among male patients with breast cancer in Israel. *Am J Hum Genet* 1999;65:1800-1802.

44. Lakhani SR, Gusterson BA, Jacquemier J, Sloane JP, Anderson TJ, van de Vijver MJ, Venter D, Freeman A, Antoniou A, McGuffog L, Smyth E, Steel CM, Haites N, Scott RJ, Goldgar D, Neuhausen S, Daly PA, Ormiston W, McManus R, Scherneck S, Ponder BAJ, Futreal PA, Peto J, Stoppa-Lyonnet D, Bignon YJ, Struewing JP, Bishop DT, Klijn JGM, Devilee P, Cornelisse CJ, Lasset C, Lenoir G, Barkardottir RB, Egilsson V, Hamann U, Chang-Claude J, Sobol H, Weber B, Easton DF, Stratton MR. The pathology of familial breast cancer: Histological features of cancers in families not attributable to mutations in *BRCA1* or *BRCA2*. *Clin Cancer Res* 2000; 6:782-789.

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54. Hartge P, Chatterjee N, Wacholder S, Brody LC, Tucker MA, Struewing JP. Breast cancer risk in Ashkenazi *BRCA1/2* mutation carriers: Effects of reproductive history. *Epidemiology* 2002; 13:255-261.

55. Tucker MA, Fraser MC, Goldstein AM, Struewing JP, King MA, Crawford JT, Chiazze EA, Zametkin DP, Fontaine LS, Clark WH, Jr. A natural history of melanomas and dysplastic nevi. *Cancer* 2002; 94:3192-209.

56. Zhang J, Rowe WL, Struewing JP, Buetow KH. HapScope: a software system for automated and visual analysis of functionally annotated haplotypes. *Nucleic Acids Res* 2002; 30:5213-21.

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63. Giusti RM, Rutter JL, Duray PH, Freedman LS, Konichezky M, Fisher-Fischbein J, Greene MH, Maslansky B, Fischbein A, Gruber SB, Rennert G, Ronchetti RD, Hewitt SM, Struewing JP, Iscovich J. A twofold increase in *BRCA* mutation related prostate cancer among Ashkenazi Israelis is not associated with distinctive histopathology. *J Med Genet* 2003;40:787-92.

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65. Rutter JL, Chatterjee N, Wacholder S, Struewing J. The HER2 I655V polymorphism and breast cancer risk in Ashkenazim. *Epidemiology* 2003; 14:694-700.

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69. Struewing JP, Hartge P, Wacholder S, Tucker MA, Greene MH. *BRCA1* and sex ratio. *Eur J Hum Genet* 2004 ;12:663-7.

70. Goldstein AM, Struewing JP, Fraser MC, Smith MW, Tucker MA. Prospective risk of cancer in *CDKN2A* germline mutation carriers. *J Med Genet* 2004;41:421-4.

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