April 2013

CURRICULUM VITAE

Jack A. Taylor, M.D., Ph.D.

Education

1977	B.A.	(Biology) cum laude, Carleton College Northfield, Minnesota
1978-80		Ph.D. Candidate, Population Genetics and Evolutionary Biology University of Arizona, Tucson, Arizona
1984	M.D.	University of Wisconsin School of Medicine Madison, Wisconsin
1993	Ph.D.	Department of Epidemiology, University of North Carolina, Chapel Hill, North Carolina

Board Certification

National Board of Medical Examiners #292343
Medical license, North Carolina #30868
American Board of Preventive Medicine:
Specialist in Public Health and General Preventive Medicine

Brief Chronology of Employment

1976	Environmental Biologist, Water Treatment Plant, Ward Paper Company
1977-78	Water Quality Researcher, Wisconsin Department of Natural Resources
1978-80	Graduate Teaching Assistant, University of Arizona
1984-85	Resident, Department of Radiology, Michigan State University
1985-87	Resident, Preventive Medicine, University of North Carolina
1985-88	USPHS-NIH Epidemiology Training Program, NIEHS
1988-95	Senior Clinical Researcher, Epidemiology Branch, NIEHS
1995-date	Tenure Appointment, Senior Investigator, Epidemiology Branch, NIEHS
1997-date	Head, Molecular & Genetic Epidemiology Section, Laboratory of Molecular Carcinogenesis, NIEH

University Affiliations

Adjunct Professor, Department of Epidemiology, University of North Carolina
Adjunct Member, Lineberger Comprehensive Cancer Center, University of North Carolina
Adjunct Professor, Department of Medicine, Duke University

Honors & Other Special Scientific Activities

Summer Research Fellowship, University of Wisconsin School of Medicine, 1981
Dean's Award for Academic Achievement, U Wisconsin Medical School, 1982 and 1983
Fellow, Conte Institute for Environmental Health
NCI Ad Hoc Study Section on Genetic Alterations in Bladder Carcinogenesis, 1988
NRC Committee on DoE Radiation Epidemiological Research Program, 1992 - 1994

Reviewer for:

British J. Cancer
Cancer Research
Carcinogenesis
Environmental Research
Environmental and Molecular Mutagenesis
International J. Cancer
Journal of the National Cancer Institute
Molecular Carcinogenesis
Molecular Medicine
Obstetrics and Gynecology
Oncogene
Pharmacogenetics

National Toxicology Program Chemical Nominations Committee

NCI *ad hoc* committee on molecular-epidemiologic enhancements to the NCI Prostate, Lung, Colorectal (PLCO) Screening Trial.

NIEHS Interdisciplinary Research Awards

1993-94: Genetic susceptibility to spontaneous abortion
1994-95: Genetic and environmental risk factors for myelodysplasia
1994-95: Reproductive failure associated with mutation of the ER gene
1998-01: Functional analysis of human DNA metabolic genes and clinically important mutant alleles in bacteria & yeast

U.S. Public Health Service Commendation Medal 1994: "For development of a highly creative program of epidemiologic research that incorporates molecular genetic markers in studies of environmental causes of human disease."

NIEHS Institutional Review Board 1995-2003
Acting Clinical Director, NIEHS 12/95-2/96
NCI Committee on Promotions, *ad hoc* member, 1997
Acting Chair, NIEHS Institutional Review Board 8/98-11/98
NIEHS Executive Committee, 1997-2001
NIH Merit Award 1997: "For development of the Environmental Genome Project"
NIH Central Tenure Committee, Ad hoc member 1997-2003
Vice Chair, NIEHS Institutional Review Board 1998-2003
Chair, NIEHS Environmental Genomics Faculty 1999 – 2003
NIEHS Merit Award for contributions to the NIEHS Strategic Plan 2005
Working Group Co-Chair Trans-NIH Research Initiative 2006
Editorial Review Board *Environmental Health Perspectives*
NIEHS Committee on Tenure and Promotions 2002-2007
NIEHS Annual Directors Allocation for Research Excellence (A-DARE) Award 2007
Associate Editor: *Cancer Epidemiology, Biomarkers, and Prevention* 1998-2009
NIH Central Tenure Committee permanent member 2003-2007, *ad hoc* 2008, 2009
NIEHS Microarray Core Facility Advisory Committee 2006-2011

<u>Current Committees and Journal Board Activities</u>

Editorial Board: *Journal of Cancer Epidemiology*
Senior Editorial Board: *International Journal of Molecular Epidemiology & Genetics*
Board of Governors, NIH Center for Inherited Disease Research, 1997-present
American Cancer Society Biospecimen Advisory Board, 2002-present
Sister Study Steering Committee, 2004-present

Advisory Board for Oxidative Stress Director's Challenge Project, 2006-present
Chair NIEHS Molecular Genetics Core Facility Advisory Committee, 2008-present
NIEHS Clinical Advisory Committee, 2008-present
NIEHS Next Generation Sequencing Advisory Committee, 2009 - present

Funded Grants

Examination of genetic alterations in preneoplastic and neoplastic lesions of the lung from uranium miners. Consultant. DOE. St. Mary's Hosptial and Medical Center, Dr. Marshall Anderson PI, $506,393 1994-1997

Breast Cancer SPORE. Consultant, Molecular Epidemiology Program. P50CA58223-03 University of North Carolina, Dr. Edison Liu PI, $1,500,000 per year, 1992-1995

Environmentally induced bladder cancer: a genetic study. Consultant. IR01ES06094 Salk Institute, Dr. S. Sukumar PI, $50,000 per year, 1992-1994

Nutritional biochemistry and epidemiology of cancer training grant. T32CA72319-01A1 Consultant. University of North Carolina, Dr. Lenore Kohlmeier PI, $88,856, 1997-2002, renewal $1.4M, 2002-2007

Environmental Health and Susceptibility Center Grant. U. North Carolina, Affiliate Member, Genetic Susceptibility Core, $700,000 per year, 2001-2004

Department of Energy Prostate Cancer Consortium. PI Genetic Susceptibility Project, and Co-investigator Proteomics Project. Dr. James Mohler Consortium PI $9,997,794, 2003-2008

Susan G Komen for the Cure. The Two Sister Study (Co-Investigator). CR Weinberg PI, $1,750,000, 2008-2010

Publications

1 Rosenzweig MD and **Taylor JA**. Speciation and diversity in Ordovician invertebrates: filling niches quickly and carefully. Oikos 35:236-243, 1980.

2 **Taylor JA** and Davis JP. Evidence for clustering of amyotrophic lateral sclerosis in Wisconsin. J Clin Epidemiol 1989; 42:569-575.

3 **Taylor JA**. Oncogenes and their application in epidemiologic studies. Am J Epidemiol 1989; 130:6-13.

4. **Taylor JA**. Epidemiologic Studies of the Molecular Genetics of Cancer. Birth Defects 1989; 25:83-93.

5 Sienko DG, Davis JP, **Taylor JA**, Brooks BR. Amyotrophic lateral sclerosis: A case-control study of a cluster in a small Wisconsin Community. Arch Neurol 1990; 47:38-41.

6 **Taylor JA**. Epidemiologic Evidence of Genetic Susceptibility to Cancer. Birth Defects 1990; 26:113-127.

7 Liu YH, **Taylor JA**, Linko P, Lucier GW, and Thompson CL. Glutathione S-transferase □ in Human Lymphocyte and Liver: Role in Modulating Formation of Carcinogen-Derived DNA Adducts. Carcinogenesis 1991; 12:2269-2275.

8 **Taylor JA**, Li Y, You M, Wilcox AJ, Liu E. B region variant of the estrogen receptor gene. Nucleic Acids Res 1992; 20:2895.

9 Bell DA, Thompson CL, **Taylor JA**, et al. Genetic monitoring of human polymorphic cancer susceptibility genes by polymerase chain reaction: application to glutathione transferase □. Environ Health Perspect 1992; 98:113-117.

10 **Taylor JA**, Sandler DP, Bloomfield CD, et al. *ras* oncogene activation and occupational exposures in acute myeloid Leukemia. J Natl Cancer Inst 1992; 84:1626-1632. PMID: 1433344

11 Piegorsch W, **Taylor JA**. Statistical methods for assessing environmental effects on human genetic disorders. Environmetrics 1992; 3:369-384.

12 Bell DB, **Taylor JA**, Paulson DF, Robertson JL, Mohler JL, Lucier GW. Genetic risk and carcinogen exposure: A common inherited defect of the carcinogen-metabolism gene Glutathione S-transferase M1 (GSTM1) that increases susceptibility to bladder cancer. J Natl Cancer Inst 1993; 85:1159-1164.

13 **Taylor JA**, Wilcox AJ, Bowes WA, Li Y, Liu ET, You M. Risk of miscarriage and a common variant of the estrogen receptor gene. Am J Epidemiol 1993; 137:1361-1364.

14 **Taylor JA**, Bell DA, Nagorney D. L-myc proto-oncogene alleles and susceptibility to hepatocellular carcinoma. Int J Cancer 1993; 54:927-930.

15 Bell DB, **Taylor JA**, Butler MA, Stephens E, Wiest J, Brubaker LH, Kadlubar FF, Lucier GW. Genotype/phenotype discordance for human arylamine N-acetyltransferase (NAT2) reveals a new slow-acetylator allele common in African-Americans. Carcinogenesis 1993; 14:1689-1692.

16 Schweikl H, **Taylor JA**, Kitereewan S, Linko P, Nagorney D, Goldstein JA. Expression of CYP1A1 and CYP 1A2 genes in human liver. Pharmacogenetics 1993; 3:239-249.

17 Piegorsch W, Weinberg CR, **Taylor JA**. Non-hierarchical logistic models and case-only designs for assessing susceptibility in population-based case-control studies. Stat Med 1994; 13:153-162.

18 **Taylor JA**, Watson MA, Devereux TR, Michels R, Saccomanno G, Anderson M. P53 mutation hotspot in radon-associated lung cancer. Lancet 1994; 343:86-87.

19 Stephens EA, **Taylor JA**, Kaplan N, Hsieh, LL, Lucier GW, Bell DA. Ethnic variation in the CYP2E1 gene: Polymorphism analysis of 685 African-Americans, European-Americans and Taiwanese indicates the presence of a unique haplotype in Taiwanese. Pharmacogenetics 1994; 4:185-192.

20 Packenham JP, **Taylor JA**, White CW, Anna CH, Barrett JC, Devereux TR. Homozygous deletions at chromosome 9p21 and mutation analysis of p16 and p15 in microdissected primary non small cell lung cancers. Clinical Cancer Res 1995; 1:687-690.

21 Lancaster JM, Brownlee HA, Wiseman RW, **Taylor JA**. P53 polymorphism in ovarian and bladder cancer. Lancet (letter) 1995; 346:182.

22 McDonald JW, **Taylor JA**, Watson MA, Saccomanno G, Devereux TR. p53 and K-ras in radon-associated lung adenocarcinoma. Cancer Epidemiol Biomarkers Prev 1995; 4:791-793.

23 Packenham JP, **Taylor JA**, Anna CH, White CM, Devereux TR. Homozygous deletions but not sequence mutations in coding regions of p15 or p16 in human primary bladder tumors Mol Carcinogenesis 1995; 14:147-151.

24 Hirvonen A, **Taylor JA**, Wilcox AJ, Berkowitz G, Schachter B, Chaparro C, Bell DA. Xenobiotic metabolism genes and the risk of recurrent miscarriage. Epidemiology 1996; 7:206-208

25 Devereux TR, **Taylor JA**, Barrett JC. Molecular mechanisms of lung cancer: Interaction of environmental and genetic factors. Chest 1996; 109:14S-19S.

26 **Taylor JA**, Li Y, Mason T, Mettlin C, Vogler WJ, Maygarden S, Liu E. p53 mutations in bladder tumors from arylamine-exposed workers. Cancer Res 1996; 55:294-298

27 Chen H, Sandler D, **Taylor JA**, Watson M, Shore DL, Liu E, Bell DA. Increased risk for myelodysplastic syndromes in individuals with glutathione transferase theta 1 (*GSTT1*) gene defect. Lancet 1996; 347:295-297. PMID: 8569364

28 Lancaster JM, **Taylor JA**, Brownlee HA, Bell DA, Berchuck A, Wiseman RW. Microsomal epoxide hydrolase polymorphism as a risk factor for ovarian cancer. Mol Carcinogenesis 1996; 17:160-162.

29 **Taylor JA**, Hirvonen A, Watson, M, Pittman G, Mohler JL, Bell DA. Association of prostate cancer with vitamin D receptor gene polymorphism. Cancer Res 1996; 56:4108-4110

30 Tomatis L, Huff J, Hertz-Picciotto I, Sandler D, Bucher J, Boffetta P, Axelson O, Blair A, **Taylor J**, Stayner L, Barrett JC. Avoided and avoidable risks of cancer. Carcinogenesis 1997; 18:97-105.

31 Bell DA, **Taylor JA**. Genetic analysis of complex diseases. Science [Technical Comments] 1997; 275:1327-1328.

32 London SJ, Lehman TA, **Taylor JA**. Myeloperoxidase genetic polymorphism and lung cancer risk. Cancer Res 1997; 57:5001-5003.

33 **Taylor JA**, Umbach DM, Stephens E, Castranio T, Paulson D, Robertson C, Mohler J, Bell DA. The role of N-acetylation polymorphisms in smoking-associated bladder cancer, evidence of a gene-gene-environment 3-way interaction. Cancer Res 1998; 58:3603-3610.

34 Lancaster, J. M., Berchuck, A., Carney, M. E., Wiseman, R., and **Taylor JA,** Progesterone receptor gene polymorphism and risk for breast and ovarian cancer. Br J Cancer 1998; 78: 277.

35 Slebos RJC, Resnick MA, **Taylor JA**. Inactivation of the p53 tumor suppressor gene via a novel Alu rearrangement. Cancer Res 1998; 58:5333-5336.

36 Hulla, JE, Miller, MS, **Taylor JA**, Hein DW, Furlong, CE, Omiecinski, CJ, and Kunkel, TA. Symposium Overview, The Role of Genetic Polymorphism and Repair Deficiencies in Environmental Disease. Toxicol Sci 1999; 47:135-143.

37 Wilcox AJ, **Taylor JA** ,Sharp RR, London SJ,. Genetic determinism and over-protection of human subjects. Nature Genetics 1999; 21: 36

38 Burroughs KD, Dunn SE, Barrett JC, **Taylor JA.** IGF-I: A key regulator of human cancer risk? [invited editorial] J Natl Cancer Inst 1999; 91:579-81

39 Lunn RM, Bell DA, Mohler JL, **Taylor JA**. Prostate cancer risk and polymorphism in 17 hydroxylase (CYP17) and steroid reductase (SRD5A2). Carcinogenesis 1999; 20:1727-1731.

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

41 Slebos RJC, Hoppin JA, Tolbert PE, Holly EA, Brock J, Zhang RH, Bracci PM, Foley J, Stockton P, McGregor LM, Flake G, **Taylor JA.** K-ras and p53 in pancreatic cancer: Association with medical history, histopathology and environmental exposures in a population-based study. Cancer Epidemiol Biomarkers Prev 2000; 9:1223-1232.

42. Stern MC, Umbach DM, van Gils CH, Lunn RM, **Taylor JA.** DNA repair gene XRCC1 polymorphisms, smoking, and bladder cancer risk. Cancer Epidemiol Biomarkers Prev 2001; 10:125-131.

43 Stern, MC, Umbach DM, Yu MC, London SJ, Zhang Z-Q, **Taylor JA**. Hepatitis B, Aflatoxin B1, and p53 codon p53 codon 249 mutation hepatocellular carcinomas from Guangxi, People's Republic of China. Cancer Epidemiol Biomarkers Prev 2001; 10:617-627.

44 Slebos RJC, **Taylor, JA.** A novel host cell reactivation assay to assess homologous recombination capacity in human cancer cell lines. Biochem Biophys Res Commun 2001; 281:212-219.

45 Devereux TR, Stern MC, Flake GP, Yu MC, London SJ, **Taylor JA** CTNNB1 mutations and β-catenin protein accumulation in human hepatocellular carcinomas associated with high exposure to aflatoxin B1. Mol Carcinogenesis 2001; 31:68-73.

46 Hoppin JA, Tolbert PE, **Taylor JA**, Schroeder JC, Holly EA. Potential for selection bias with tumor tissue retrieval for molecular epidemiology studies. Ann Epidemiol 2002; 12:1-6.

47 Stern MC, Johnson LR, Bell DA, **Taylor JA**. XPD codon 751 polymorphism, metabolism genes, smoking, and bladder cancer risk. Cancer Epidemiol Biomarkers Prev 2002; 11:1004-1011.

48 Thompson TE, Rogan PK, Risinger JI, **Taylor JA.** Splice variants, but not mutations, of DNA Polymerase β are common in bladder cancer. Cancer Res 2002; 62:3251-3256.

49 vanGils CH, Conway K, Li Y, **Taylor JA.** *HRAS1* variable number tandem repeat polymorphism and risk of bladder cancer. Int J Cancer 2002; 100:414-418.

50 vanGils CH, Bostick RM, Stern MC, **Taylor JA**. Differences in base excision repair capacity may modulate the effect of dietary antioxidant intake on prostate cancer risk: an example of polymorphisms in the XRCC1 gene. Cancer Epidemiol Biomarkers Prev 2002; 11:1279-1284.

51 Stern MC, Umbach DM, Lunn RM, **Taylor JA.** DNA repair gene XRCC3 codon 241 polymorphism, its interaction with smoking and XRCC1 polymorphisms and bladder cancer risk. Cancer Epidemiol Biomarkers Prev 2002; 11:939-943.

52 Slebos JC, Oh DS, Umbach DM, **Taylor JA**. Mutations in tetranucleotide repeats following DNA damage depend on repeat sequence and carcinogenic agent. Cancer Res 2002; 62:6052-6060.

53 Engel LS, Taioli E, Pfeiffer R, Garcia-Closas M, Marcus PM, Lan Q, Boffetta P, Vineis P, Autrup H, Bell DA, Branch RA, Brockmoller J, Kaly AK, Heckbert SR, Kalina I, Kang DH, Katoh T, Lafuente A, Lin HJU, Romkes M, **Taylor JA**, Rothman N. Pooled analysis and meta-analysis of GSTM1 and bladder cancer: A HuGE Mini-Review. Am J Epidemiol 2002; 156:95-109.

54 Jugessur A, Lie RT, Wilcox AJ, Murray JC, **Taylor JA**, Saugstad OD, Vindenes H, Abyholm F. Variants of developmental genes (*TGFα, TGFβ3, and MSX1*) and their associations with facial clefts – A case-parent triad analysis. Genetic Epidemiol 2003; 24:230-239.

55 Jugessur A, Wilcox AJ, Lie RT, Murray JC, **Taylor JA**, Ulvik A, Vindenes H, Abyholm F. Exploring the effects of methylenetetrahydrofolate reductase gene variants C677T and A1298C on the risk of orofacial clefts in 261 Norwegian case-parent triads. Am J Epidemiol 2003; 157:1083-1091.

56 Dunson DB, Watson M, **Taylor JA**. Bayesian latent variable models for median regression on multiple outcomes. Biometrics 2003; 59:296-304

57 Jin YH, Clark AB, Slebos RJC, Al-Refai H, **Taylor JA**, Kunkel TA, Resnick MA, Gordenin DA. Cadmium is a mutagen that acts by inhibiting mismatch repair. Nature Genetics 2003; 34:329-329.

58 Kamel F, Umbach DM, Lehman TA, Park LP, Munsat TL, Shefner JM, Sandler DP, Hu H, **Taylor JA**. Amyotrophic Lateral Sclerosis, Lead, and Genetic Susceptibility: Polymorphisms in the δ-Aminolevulinic Acid Dehydratase and Vitamin D Receptor Genes. Environ Health Perspect 2003; 111:1335-1339. PMID: 12896855. PMC1241615

59 Jugessur A, Lie RT, Wilcox AJ, Murray JC, **Taylor JA**, Saugstad OD, Vindenes HA, Abyholm FE Cleft Palate, Transforming Growth Factor Alpha Gene Variants, and Maternal Exposures: Assessing Gene-Environment Interactions in Case-Parent Triads. Genetic Epidemiol 2003; 25:367-374.

60 Cooper GS, Treadwell EL, Dooley MA, St. Clair EW, Gilkeson GS, **Taylor JA**. N-Acetyl Transferase Genotypes in Relation to Risk of Developing Systemic Lupus Erythematosus. J Rheum 2004; 31:76-80.

61 Schroeder JC, Conway K, Li Y, Mistry K, Bell DA, **Taylor JA**. P53 mutations in bladder cancer: evidence for exogenous versus endogenous risk factors. Cancer Res 2003 63:7530-7358.

62 Slebos RJC, Umbach DM, Sommer CA, Horner GA, Choi JY, **Taylor JA** Analytical and statistical methods to evaluate microsatellite allelic imbalance in small amounts of DNA. Lab Invest 2004; 84:648-657.

63 Li L, Umbach DM, Terry P, **Taylor JA**. Application of the GA/KNN method to SELDI proteomics data. Bioinformatics 2004; 20:1638-1640.

64 Slebos RJC, Little RE, Umbach DM, Antipkin Y, Zadaorozhnaja TD, Mendel NA, Sommer CA, Conway K, Parrish E, Gulino S, **Taylor JA**. Mini- and microsatellite mutations in children from Chernobyl accident cleanup works. Mut Res 2004; 559:143-51.

65 Terry PD, Kamel F, Umbach DM, Lehman TA, Hu H, Sandler DP, **Taylor JA** VEGF promoter haplotype and amyotrophic lateral sclerosis (ALS) J Neurogenetics 2004; 18:429-434. PMID: 15763997

66 Terry PD, Umbach DM, **Taylor JA.** No association between SOD2 or NQO1 genotypes and risk of bladder cancer. Cancer Epidemiol Biomarkers Prev 2005; 14:753-754.

67 Slebos RJC, Livanos E, Yim H-W, Randell SH, Parsons AM, Detterbeck FC, Rivera MP, **Taylor JA**. Chromosomal abnormalities in bronchial epithelium from smokers, non-smokers and lung cancer patients. Cancer Genet Cytogenet 2005; 159:137-142.

68 Kamel F, Umbach DM, Hu H, Munsat TL, Shefner JM, **Taylor JA**, Sandler DP. Lead exposure as a risk factor for amyotrophic lateral sclerosis. Neurodegener Dis 2005; 2:195-201.

69 Dunson DB, **Taylor JA.** Approximate Bayesian Inference for Quantiles. J Nonparametr Stat 2005; 17:385-400.

70 **Taylor JA**, Xu ZL, Kaplan NL, Morris RW. How well do HapMap haplotypes identify common haplotypes of genes? A comparison with haplotypes of 334 genes resequenced in the Environmental Genome Project. Cancer Epidemiol Biomarkers Prev 2006; 15:133-137.

71 Terry PD, Umbach DM, **Taylor JA**. APE1 genotype and risk of bladder cancer: Evidence for effect modification by smoking. Int J Cancer 2006; 31:516-518.

72 Stern MC, Conway K, Li Y, Mistry K, **Taylor JA.** DNA repair gene polymorphisms and probability of p53 mutation in bladder cancer. Mol Carcinog 2006; 45:715-719.

73 Goodman M, Bostick RM, Ward KC, Terry PD, VanGils CH, **Taylor JA**, Mandel JS. Lycopene intake and prostate cancer risk: effect modification by plasma antioxidants and XRCC1 genotype. Nutr Cancer 2006; 55:13-20.

74 Yim HW, Slebos RJC, Randell SH, Umbach DM, Parsons AM, Rivera MP, Detterbeck FC, **Taylor JA.** Smoking is associated with increased telomerase activity in short-term cultures of human bronchial epithelial cells. Cancer Lett 2007; 248:24-33. PMID 16517060

75 Flake GP, Rivera MP, Funkhouser WK, Slebos RJC, Maygarden SJ, Meadows KL, Long EH, Stockton PS, Jones TC, **Taylor JA**. Detection of pre-invasive lung cancer: Technical aspects of the LIFE Project. Toxicol Pathol 2007; 35:65-74. PMID 17325974

76 King, AA, Shaughnessy DT, Mure K, Leszczynska J, Ward WO, Umbach DM, Xu Z, Ducharme D, **Taylor JA**, DeMarini DM, Klein CB. Antimutagenicity of cinnamaldehyde and vanillin in human cells: Global gene expression and possible role of DNA damage and repair. Mutat Res 2007; 616:60-69. PMID: 17178418; PMC1955325

77 Gooden KM, Schroeder JC, North KE, Gammon MD, Hartmann KE, **Taylor JA**, Baird DD. Val153Met polymorphism of catechol-o-methyltransferase and prevalence of uterine leiomyomata. Reprod Sci 2007; 14:117-120. PMID: 17636223

78 Wilcox AJ, Lie RT, Solvoll K, **Taylor JA**, McConnaughey DR, Abyholm F, Vindenes H, Vollset SE, Drevon CA. Folic acid supplements and the risk of facial clefts: A national population-based case-control study. BMJ 2007; 334:464-469. PMID: 17259187; PMC1808175

79 Xu Z, Kaplan NL, **Taylor JA**. Tag SNP selection for candidate gene association studies using HapMap and gene resequencing data. Eur J Hum Genetics 2007; 115:902-908. PMID: 17568388

80 Boyles AL, Wilcox AJ, **Taylor JA**, Meyer K, Fredriksen A., Ueland PM, Drevon CA, Vollset SE, Lie RT. Folate and one-carbon metabolism gene polymorphisms and their associations with oral facial clefts. Am J Med Genetics 2008; 146A:440-449. PMID: 18203168; PMC2366099

81 Xu Z, Kaplan NL, **Taylor JA**. TAGster: Efficient selection of LD tag SNPs in single or multiple populations. Bioinformatics 2008; 23:3254-3255. PMID: 17827206; PMC2782964

82 Lie RT, Wilcox AJ, **Taylor JA,** Gjessing HK, Saugstad OD, Aabyholm F, Vindenes HA. Material smoking and oral clefts, the role of detoxification genes. Epidemiology 2008; 19:606-615. PMID: 18449058

83 Horton JK, Watson M, Stefanick DF, Shaughnessy DT, **Taylor JA,** Wilson SH. XRCC1 and DNA polymerase beta in cellular protection against cytotoxic DNA single strand breaks. Cell Res. 2008; 18:48-63. PMID: 18166976; PMC2366203

84 Markunas CA, Umbach DM, Xu Z, **Taylor JA** Assessing candidate gene nsSNPs for phenotypic differences in double-strand break repair using radiation-induced gamma H2A.X foci. J. Cancer Epidemiol 2008; 2008:387423.Epub 2009 Mar 12. PMID: 20445776; PMC2858903

83 Rodriguez A, Dunson DB, **Taylor, JA**. Bayesian hierarchically weighted finite mixture models for samples of distributions. Biostatistics 2009; 10:155-171. doi: 10.1093/biostatistics/kxn024. Epub 2008 Aug 16. PMID: 18708650; PMC2733158

84 Boyles AL, Wilcox AJ, **Taylor JA**, Shi M, Weinberg, CR, Meyer K, Fredriksen A, Ueland PM, Johansen AM, Drevon CA, Jugessur A, Trung TN, Gjessing HK, Vollset SE, Murray JC, Christensen K, Lie RT. Oral facial clefts and gene polymorphisms in metabolism of folate/one-carbon and vitamin A: a pathway-wide association study. Genet Epidemiol 2009; 33:247-255. PMID: 19048631; PMC2677659

85 Kim S, Parks CG, DeRoo LA, Chen H, **Taylor JA**, Cawthon RM, Sandler DP. Obesity and Weight Gain in Adulthood and Telomere Length. Cancer Epidemiol Biomarkers Prev 2009; 18:816-820. PMID: 19273484; PMC2805851

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89 Stern MC, Lin J, Figueroa JD, Kelsey KT, Kiltie AE, Yuan JM, Matullo G, Fletcher T, Benhamou S, **Taylor JA**, Placidi D, Zhang ZF, Steineck G, Rothman N, Kogevinas M, Silverman D, Malats N, Chanock S, Wu X, Karagas MR, Andrew AS, Nelson HH, Bishop DT, Sak SC, Choudhury A, Barrett JH, Elliot F, Corral R, Joshi A, Gago-Dominguez M, Cortessi VK, Xiang YB, Vineis P, Sacerdote C, Guarrera S, Polidoro S, Allione A, Gurzau E, Koppova K, Kumar R, Rudnai P, Porru S, Carta A, Campagna M, Arici C, Park SSL, Garcia-Closas M. Polymorphisms in DNA repair genes, smoking, and bladder cancer risk: findings from the International Consortium of Bladder Cancer. Cancer Res 2009; 69: 6857-6864. doi: 10.1158/0008-5472.CAN-09-1091. Epub 2009 Aug 25. PMID: 19706757; PMC2782435

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91 Rothman N, Garcia-Closas M, Chatterjee N, Malats N, Wu X, Figueroa J, Cortessis V, Matullo G, Baris D, Thun M, Kiemeney LA, Vineis P, De Vivo I, Real FX, Albanes D, Purdue M, Rafnar T, Hildebrandt M, Kiltie AE, Cussenot O, Golka K, Kumar R, **Taylor JA**, Mayordomo JI, Jacobs K, Hutchinson A, Wang Z, Fu Y-P, Prokunina-Olsson L, Burdette A, Yeager M. Wheeler W, Kogevinas M, Johson A. Schwenn M. Karagas M, Andriole G, Grubb R, Black A, Jacobs EJ, Diver RW, Gapstur SM, Weinstein S, Virtamo J, Van Den Berg D, Stern M, Yuan W, Gago M, Hunter D, McGrath M, Dinney C, Czerniak B, Chen M, Vermeulen SH, Aben KK, Witjes JA, Makkinje RR, Sulem P, Besenbacher S, Stefansson K, Riboli E, Brennan P, Panico S, Vararro C, Allen NE, Bueno-de-Mesquita HB, Trichopoulos D, Landi MT, Canzian F, Ljungberg B, Tjonneland A, Clavel-Chapelon F, Bishop DT, Teo MTW, Knowles MA, Guarrera S, Polidoro S, Ricceri F, Sacerdote C, Allione A, Cancel-Tassin G, Selinski S, Hengstler JG, Dietrich H, Fletcher T, Rudnai P, Gurzau E, Koppova K, Bolick S, Godfrey A, Xu Z, Sanz-Velez JI, Garcia-Prats MD, Sanchez M, Valdivia G, Caporaso N, Porru S, Benhamou S, Silverman DT, Chanock S. A multi-stage genome-wide association study of bladder cancer identifies multiple susceptibility loci. Nature Genet 2010: 42:978-984. doi: 10.1038/ng.687. Epub 2010 Oct 24. PMID: 20972438; PMC3049891

92 Xu X, Bensen JT, Smith GL, Mohler JL, **Taylor JA**. GWAS SNP replication among African Americans and European Americans in the North Carolina-Louisiana Prostate Cancer Project (PcaP). Prostate 2011 71:881-891. Epub 2010 Nov 17. PMID: 21086507

93 Meadows KL, Andrews DMK, Xu Z, Laughlin SK, Baird DD, **Taylor JA**. Genome-wide analysis of loss of heterozygosity and copy number amplification in uterine leiomyomas using the 100K single nucleotide polymorphism array. Exp Mol Pathol 2011; 91:434-439. PMID: 21497600

94 Shaughnessy DT, Gangarosa LM, Schliebe B, Umbach DM, Xu Z, MacIntosh B, Knize MG, Mathews PP, Swank AE, Sandler RS, DeMarini DM, **Taylor JA**. Inhibition of fried meat-induced rectal DNA damage and altered systemic genotoxicity in humans by crucifera, chlorophyllin, and yogurt. PLoS One 2011; 6:e18707 PMID: 21541030; PMC3081825

95 Kim S, Sandler DP, Carswell G, DeRoo LA, Parks CG, Cawthon R, Weinberg CR, **Taylor JA**. Telomere length in peripheral blood and breast cancer risk in a prospective case-cohort analysis: results from the Sister Study. Cancer Causes Control 2011; 22:1061-1066. PMID: 21643930; PMC3445257

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97 Fang F, Umbach DM, Xu Z, Ye W, Sandler DP, **Taylor JA**, Kamel F. No association between DNA repair gene XRCC1 polymorphisms and risk of amyotrophic lateral sclerosis. Neurobiol Aging 2012; 33:1015.e25-6. doi: 10.1016/j.neurobiolaging.2010.07.004. Epub 2010 Aug 16. PMID: 20719408; PMC3005140

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99 Bensen JT, Xu Z, Smith GJ, Mohler JL, Fontham ET, **Taylor JA**. Genetic polymorphism and prostate cancer aggressiveness: A case-only study of 1536 GWAS and candidate SNPs in African Americans and European Americans. Prostate 2013; 73:11-22. doi: 10.1002/pros.22532. Epub 2012 May 1. PMID: 22549899; PMC3480543

100 Kim S, Parks CG, Xu Z, DeRoo LA, Sandler DP, **Taylor JA**. Association between genetic variants in DNA and histone methylation and telomere length. PLoS ONE 2012; 7:e40504. Epub 2012 Jul 11. PMID: 22792358; PMC3394714

101 Xu Z, Bolick SC, Deroo LA, Weinberg CR, Sandler DP, **Taylor JA**. Epigenome-wide association study of breast cancer using prospectively collected Sister Study samples. J Natl Cancer Inst 2013 Apr 11. [Epub ahead of print] PMID: 23578854

102 White AJ, Sandler DP, Bolick SCE, Xu Z, **Taylor JA**, DeRoo LA. Recreational and household physical activity at different time points and DNA global methylation. Eur J Cancer 2013; pii: S0959-8049(13)00121-4. doi: 10.1016/j.ejca.2013.02.013. Epub 2013 Mar 6. PMID: 23473616

Book Chapters

1 Zhang, Z-F, Cordon-Cardo C, Rothman N, **Taylor JA**. Methodological issues in the use of tumor markers in cancer epidemiology. In: Application of Biomarkers in Cancer Epidemiology, Toniolo, Boffetta et al eds, 1997, IARC, Lyon.

2 Stern MC, Koper NP, **Taylor JA**. Molecular Epidemiology. In: Introduction to Biochemical Toxicology. Hodgson and Smart (eds) 2000.

Letters

1. **Taylor JA**. Cone loss of the week. Science 1990; 247:270-271.

2. **Taylor JA**, Sandler DP, Shore DL. Re: Acute Myelogenous Leukemia. JNCI 1993; 85:921.

3. **Taylor JA**, Anderson M. Re: p53 mutation hotspot in radon-associated lung cancer. Lancet 1994; 343:1158-1159.

4. **Taylor JA**, Wilcox AJ. Re: Risk of miscarriage and a common variant of the estrogen receptor gene. Am. J. Epidemiol. 1994; 140:1145

Conference Chair or Organizer

American Association for Cancer Research Program Committee 1997, 2000, 2001
Conference Co-Chairman, NIH Symposium on Environmental Genome Project, Oct 1997
Co-organizer EPA/NIEHS Workshop on Applying Biomarker Research, Chapel Hill NC, Aug 1999
Co-organizer NIEHS Conference on Epidemiology in the 21st Century, Chapel Hill NC Nov 1999
Co-organizer UNC/NIEHS Conference on Epidemiology of DNA Repair, Chapel Hill, Mar 2001
AACR Annual Meeting, Organizer and Chair, Special Forum on Proteomics, 2004

Invited Talks (selected, since 1994)

American Association for Cancer Research and Environmental Mutagen Society special conference: "Risk Assessment in Environmental Carcinogenesis" Whistler, Canada 1994.
Karolinska Institute, conference: "Molecular Mechanisms of Environmental Mutagenesis and Carcinogenesis" Huddinge, Sweden 1994.
Mayo Clinic Comprehensive Cancer Center, Rochester MN 1994
University of Minnesota Cancer Center, Minneapolis MN 1994
International Society for Environmental Epidemiology Annual Meeting, Symposium: "Genetic susceptibility to environmental hazards," Research Triangle Park, NC 1994.
Agency for Toxic Substances and Disease Registry workshop: "The role of biomarkers in field studies of environmentally associated cancers" Atlanta, GA 1994.
American Association for Cancer Research Annual Meeting, Symposium: “Mechanistic basis of ethnic differences in cancer risk” Toronto, Ontario, Canada 1995
International Society for Environmental Epidemiology Conference: “Host Factors in Environmental Epidemiology”. Keynote Address. Cracow, Poland 1995
Karolinska Institute Symposium “Molecular mechanisms of environmental mutagenesis and carcinogenesis” Stockholm, Sweden, Sep 1996
Fred Hutchinson Cancer Research Center and National Cancer Institute Workshop on Diet/Nutrition and Genetic Susceptibility in Relation to Cancer. Washington DC Jan 1997
MD Anderson Cancer Center, Grand Rounds, Houston TX, Jan 1997
University of California, San Francisco Symposium: “Molecular Advances in Cancer Epidemiology and Prevention. San Francisco CA Feb 1997
NIH Director’s Seminar Series, Bethesda, MD Mar 1997
Society of Toxicology Annual Meeting, Seattle WA, Mar 1998
Environmental Mutagen Society Annual Meeting, Plenary Address (Alexander Hollaender Lecture) Anaheim CA, Mar 1998
University of Cincinnati, Center for Environmental Genetics Apr 1998
Centers for Disease Control, Conference on Genetics and Public Health, Atlanta GA, May 1998
American College of Epidemiology Workshop on Genetic Fundamentals of Molecular Epidemiology, Chicago IL June 1998; San Francisco CA Sep 1998
12th International Conference on Carcinogenesis and Risk Assessment. Austin TX, Dec 1998
American Cancer Society 2nd Annual Schilling Conference. Santa Cruz CA, Mar 1999
Society of Toxicology, Chicago IL, May 1999
VII CEPH Annual Conference on Human Genetics; Paris France, May 1999
American College of Epidemiology Workshops, Baltimore MD June 1999; & Washington DC Oct 1999
NIOSH Workshop on Genetic Susceptibility, Morgantown WV Mar 2000
American College of Epidemiology Workshops, Seattle June 2000; Atlanta GA Sep 2000

Norway National Institute of Public Health Conference on Merging Genetics and Epidemiology, Keynote address, Oslo Norway, Aug 2000
American College of Epidemiology Workshops, Toronto Canada, Jun 2001
Congress of Epidemiology, Toronto Canada, Jun 2001
US-European Workshop on Gene-Environment Research at the Interface of Toxicology and Epidemiology, Garmisch, Germany Sep 2001
Brown University, Biomedical Center, Providence RI, Nov 2001
Centers for Disease Control, Atlanta GA, Feb 2002
American College of Epidemiology Workshops, Albuquerque Sep 2002
DNA Repair Interest Group National Videoconference, Jan 2003
American College of Epidemiology Workshop, Atlanta GA, Jun 2003
Environmental Protection Agency, Research Triangle Park NC Sep 2003
Centers for Disease Control, Atlanta GA, Sep 2003
Carleton College, Northfield MN, Feb 2004
American Association for Cancer Research Annual Meeting, Orlando FL Mar 2004
Jackson Laboratory Meeting: “Assessing Human Germ Cell Mutagenesis” Bar Harbor ME Sep 2004
University of North Carolina Center for Environmental Health and Susceptibility, Chapel Hill NC Feb 2005
American Association for Cancer Research Annual Meeting, Anaheim CA, Apr 2005
Society for Epidemiologic Research Annual Meeting, Toronto, Canada Jun 2005
University of Wisconsin, UW Population Health Institute, Madison WI, Mar 2008
Congress of the Netherlands Epidemiological Society (plenary address), Jun 2008
Cedars-Sinai Comprehensive Cancer Institute, Los Angles CA, Sep 2010
Global Alliance to Prevent Prematurity and Stillbirth. Seattle WA Oct 2010
American Cancer Society, Atlanta GA, Mar 2011
NC State, Dept Environmental and Molecular Toxicology, Raleigh NC Apr 2011
St. Olaf College, Northfield MN Mar 2013
Karmanos Cancer Institute, Detroit MI Mar 2013