

CURRICULUM VITAE

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

Education:

1977	B.A.	(Biology) <i>cum laude</i> , 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, NIEHS

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:

Summer Research Fellowship, University of Wisconsin School of Medicine, 1981
Dean's Award for Academic Achievement, University of Wisconsin School of Medicine,
1982 and 1983
Fellow, Conte Institute for Environmental Health
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."

Honors (continued):

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

Acting Clinical Director, NIEHS 12/1995-2/1996

NIH Merit Award 1997: "For development of the Environmental Genome Project"

NIEHS Merit Award for contributions to the NIEHS Strategic Plan 2005

NIEHS Annual Directors Allocation for Research Excellence (A-DARE) Award 2007

Committees and Faculties (past):

NIEHS:

NIEHS Institutional Review Board 1995-2003

Acting Chair, NIEHS Institutional Review Board 8/1998-11/1998

Vice Chair, NIEHS Institutional Review Board 1998-2003

NIEHS Executive Committee, 1997-2001

NIEHS Environmental Genomics Faculty - Chair 1999 – 2003

NIEHS Committee on Tenure and Promotions 2002-2007

NIEHS Microarray Core Facility Advisory Committee 2006-2011

NIH:

NIH Central Tenure Committee, *ad hoc* member 1997-2003

Trans-NIH Research Initiative, Working Group Co-Chair 2006

NIH Central Tenure Committee permanent member 2003-2007; *ad hoc* 2008, 2009

Other Governmental:

NCI Ad Hoc Study Section on Genetic Alterations in Bladder Carcinogenesis 1988

NRC Committee on DoE Radiation Epidemiological Research Program 1992-1994

National Toxicology Program Chemical Nominations Committee

NCI *ad hoc* committee on molecular-epidemiologic enhancements to the NCI Prostate, Lung, Colorectal (PLCO) Screening Trial.NCI Committee on Promotions, *ad hoc* member 1997Committees (current):

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

Journal Reviewer for:

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

Journal Board Activities:

Associate Editor: *Cancer Epidemiology, Biomarker and Prevention* 1998-2009
Editorial Review Board *Environmental Health Perspectives*
Editorial Board: *Journal of Cancer Epidemiology*
Senior Editorial Board: *International Journal of Molecular Epidemiology & Genetics*

Funded Grants:

Examination of genetic alterations in preneoplastic and neoplastic lesions of the lung from uranium miners. Consultant. DOE. St. Mary's Hospital 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. University of 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, September 2008 – August 2010, \$1,750,000

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 mu 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 mu. *Environ. Health Persp.* 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.
- 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. *Statistics in Medicine* 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 Epi 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.
- 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 JM, Berchuck A, Carney ME, Wiseman R, **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 Research* 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 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. Biophysical Res. Comm.* 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 (*TGF α* , *TGF β 3*, 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.
- 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; 63:7530-7538.
- 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. Research* 2004; 559:143-151.
- 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.
- 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 Genetics Cytogenetics* 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. Nonparametric Statistics* 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. *Molecular Carcinogenesis* 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. *Cancer Nutrition* 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.
- 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.
- 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.
- 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.
- 78 Wilcox AJ, Lie RT, Solvoll K, **Taylor JA**, McConaughy 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-
- 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.
- 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.
- 81 Xu Z, Kaplan NL, **Taylor JA**. TAGster: Efficient selection of LD tag SNPs in single or multiple populations. *Bioinformatics* 2008; 23:3254-3255.
- 82 Lie RT, Wilcox AJ, **Taylor JA**, Gjessing HK, Saugstad OD, Aabyholm F, Vindenes HA. Maternal smoking and oral clefts, the role of detoxification genes. *Epidemiology* 2008; 19:606-615.
- 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.
- 84 Rodriguez A, Dunson DB, **Taylor JA**. Bayesian hierarchically weighted finite mixture models for samples of distributions. *Biostatistics* 2009; 10:155-171.
- 85 Boyles AL, Wilcox AJ, **Taylor JA**, Shi M, Weinberg, CR, Meyer K, Fredriksen A, Ueland PM, Johansen AMW, 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.
- 86 Kim S, Parks CG, DeRoo LA, Chen H, **Taylor JA**, Cawthon RM, and Sandler DP. Obesity and Weight Gain in Adulthood and Telomere Length. *Cancer Epi. Biomarkers Prev.* 2009; 18:816-820.
- 87 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.* v 2009, ID 387423, doi:10.1155/2008/387423.
- 88 Xu Z, **Taylor JA**. SNPinfo: Integrating GWAS and candidate gene information in functional SNP selection for genetic association studies. *Nucleic Acids Res.* 2009 ; doi: 10.1093/nar/gkp290.
- 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, Gurrzau 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.
- 90 Boyles AL, DeRoo LA, Lie RT, **Taylor JA**, Jugessur A, Murray JC, Wilcox AJ. Maternal alcohol consumption, alcohol metabolism genes and the risk of oral clefts: a population-based case-control study in Norway, 1996-2001. *Am. J. Epidemiol.* 2010; 15:172:924-931.
- 91 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.* 2010; Aug 16. [Epub ahead of print] PMID: 20719408.
- 92 Rothman N, Garcia-Closas M, Chatterjee N, Malats N, Wu X, Figueroa J, Cortessis V, Matullo G, Baris D, Thun M, Kiemeny 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, Gurrzau 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 Genetics* 2010; 42:978-984.
- 93 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 ahead of print] PMID: 21086507.
- 94 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.

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- 96 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.
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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, IARC, Lyon, France, 1997.
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 NC,
 Mar 2001

AACR Annual Meeting, Organizer and Chair, Special Forum on Proteomics, 2004

Invited Talks (selected, since 1994):

- 1994 American Association for Cancer Research and Environmental Mutagen Society, Special Conference: "Risk Assessment in Environmental Carcinogenesis." Whistler, British Columbia, 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.
- 1995 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.
- 1996 Karolinska Institute Symposium: "Molecular mechanisms of environmental mutagenesis and Carcinogenesis." Stockholm, Sweden, Sep 1996.
- 1997 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
- 1998 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, Cincinnati OH, 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, Jun 1998; San Francisco CA, Sep 1998.
 12th International Conference on Carcinogenesis and Risk Assessment. Austin TX, Dec 1998.

- 1999 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.
- 2000 NIOSH Workshop on Genetic Susceptibility, Morgantown WV, Mar 2000.
American College of Epidemiology Workshops, Seattle WA, Jun 2000; Atlanta GA, Sep 2000.
Norway National Institute of Public Health Conference on Merging Genetics and Epidemiology, Keynote address, Oslo, Norway, Aug 2000.
- 2001 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.
- 2002 Centers for Disease Control, Atlanta GA, Feb 2002.
American College of Epidemiology Workshops, Albuquerque NM, Sep 2002.
- 2003 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.
- 2004 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.
- 2005 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.
- 2008 University of Wisconsin, UW Population Health Institute, Madison WI, Mar 2008.
Congress of the Netherlands Epidemiological Society (plenary address), Jun 2008.
- 2010 Cedars-Sinai Comprehensive Cancer Institute, Los Angeles CA, Sep 2010.
Global Alliance to Prevent Prematurity and Stillbirth, Seattle WA, Oct 2010.
- 2011 American Cancer Society, Atlanta GA, Mar 2011.
Department of Environmental and Molecular Toxicology, North Carolina State University, Raleigh NC, Apr 2011.