

CURRICULUM VITAE

ANDREW F. OLSHAN

March 7, 2019

DATE & PLACE OF BIRTH: December 14, 1955; Melrose, Massachusetts

BUSINESS ADDRESS: Department of Epidemiology
Gillings School of Global Public Health
McGavran-Greenberg Hall, CB #7400
University of North Carolina
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EDUCATION:

1973-78	Arizona State University Tempe, Arizona	B.A. Anthropology, August 12, 1978
1981-82	University of Washington Seattle, Washington	M.S. Epidemiology, August 20, 1982
1982-87	University of Washington Seattle, Washington	Ph.D. Epidemiology, December 17, 1987
1987-89	University of British Columbia Vancouver, British Columbia	Postdoctoral Fellow Medical Genetics

APPOINTMENTS AND POSITIONS:

1981-88	Research Associate Division of Public Health Sciences The Fred Hutchinson Cancer Center Seattle, Washington
1989-91	Assistant Professor Department of Clinical Epidemiology and Preventive Medicine School of Medicine University of Pittsburgh
1990-91	Assistant Professor Department of Human Genetics Graduate School of Public Health

	University of Pittsburgh
1989-91	Affiliate Member Pittsburgh Cancer Institute
1991-1996	Assistant Professor Department of Epidemiology School of Public Health University of North Carolina
1996- 2001	Associate Professor Department of Epidemiology School of Public Health University of North Carolina
1992-Present	Fellow, Carolina Population Center University of North Carolina
1992-Present	Member, Lineberger Comprehensive Cancer Center University of North Carolina
1994- 1997	Research Assistant Professor Department of Surgery School of Medicine University of North Carolina
1998	Visiting Scientist Occupational Epidemiology Branch National Cancer Institute
1998- Present	Leader, Cancer Epidemiology Program Lineberger Comprehensive Cancer Center University of North Carolina
2000-Present	Member, UNC Center for Environmental Health and Susceptibility
2000-Present	Internal Advisory Committee, UNC Center for Environmental Health and Susceptibility
2001- Present	Professor Department of Epidemiology School of Public Health University of North Carolina
2001- Present	Adjunct Professor Department of Otolaryngology/Head and Neck Surgery School of Medicine University of North Carolina
2006-2018	Chair

Department of Epidemiology
School of Public Health
University of North Carolina, Chapel Hill

- 2009-2012 Associate Director for Population Sciences (Interim)
UNC Lineberger Comprehensive Cancer Center
- 2012-Present Associate Director for Population Sciences
UNC Lineberger Comprehensive Cancer Center
- 2014-Present Barbara Sorenson Hulka Distinguished Professor of Cancer
Epidemiology

HONORS AND AWARDS:

- 1975 One of three finalists for Juan Comas Award for the best student paper
presented at the 44th Annual Meeting of the American Association of
Physical Anthropologists, Denver.
- 1985 Invited participant, Society for Epidemiologic Research Student
Workshop, Chapel Hill, North Carolina.
- 1999 Delta Omega Public Health Honor Society.

ACTIVITIES:

International/ National/ Community Committees

- 1984-1987 Chairman, Case-Control Study of Wilms' Tumor, Childrens Cancer
Study Group, Pediatric Oncology Group.
- 1990-1996 Chairman, Case-Control Study of Neuroblastoma, Childrens Cancer
Study Group, Pediatric Oncology Group.
- 1989-1990 Member, NCI Working Group, Epidemiology of Multiple Myeloma and
Black/White Risk Factors.
- 1991-1993 Chairman, Working Group, International Commission for Protection
Against Environmental Mutagens and Carcinogens, Genetic Effects of
Cyclosporin A.
- 1991-1992 Co-Chairman, International Conference on Male-Mediated
Developmental Toxicity, Pittsburgh, PA, September 16-19, 1992.
- 1994 Member, State of North Carolina Advisory Committee on Birth Defects
Surveillance.

- 1994 Member, Organizing Committee, Preventing Birth Defects in North Carolina: Making Folic Acid Work. A Statewide Conference and Workshop on Preventing Neural Tube Defects. May 19, 1995, Raleigh, NC.
- 1995- 1996 Member, Committee to Study the Feasibility of, and Need for, Epidemiologic Studies of Adverse Reproductive Outcomes in Families of Military Personnel Present at Atmospheric Tests of Nuclear Weapons. Institute of Medicine, National Academy of Sciences.
- 1992 Member, Committees to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides. Institute of Medicine, National Academy of Sciences.
- 1996 Member, Committees to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides. Institute of Medicine, National Academy of Sciences.
- 1998 Member, Committees to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides. Institute of Medicine, National Academy of Sciences.
- 1999 Member, External Peer Review Committee, Environmental Protection Agency, Toxicological Review for Cadmium and Compounds.
- 1999- 2000 Member, Committee to Review the Evidence Regarding Link Between Exposure Agent Orange and Diabetes. Institute of Medicine, National Academy of Sciences.
- 2000-2004 Member, Epidemiology Steering Committee, Children's Oncology Group.
- 2000-2003 External Advisory Committee, University of Washington Superfund Basic Research Program, "Effects-Related Biomarkers of Toxic Exposures", H. Checkoway, PI, P42ES4696ZES1.
- 2000- 2001 Chair, Meeting Organizing Committee, Lineberger Cancer Center/NIEHSConference: Gene-Environment Interaction and Cancer Risk: The Role of DNA Repair. March 12-13, 2001.
- 2000- 2001 Member, Organizing Committee, Second International Conference on Male-Mediated Developmental Toxicity, June, 2001.
- 2001 Expert Panel On Reproductive and Developmental Toxicity of 1-Bromopropane and 2-Bromopropane. Center for the Evaluation of Risks to Human Reproduction. National Toxicology Program.
- 2001 Member, Gene-Environment Interaction Working Group. Longitudinal Cohort Study of Environmental Effects on Child Health and Development.

2002	Member, External Advisory Committee, Oral Cancer Center, University of Pittsburgh.
2003-2010	Member, External Advisory Board, MD Anderson Cancer Center, Head and Neck Cancer SPORE.
2004-2010	Co-Chair, Epidemiology Steering Committee, Children's Oncology Group.
2004-2009	Member, Board of Scientific Counselors, Subcommittee-1, National Cancer Institute.
2004-2008	Member, Scientific Committee, International Society of Paediatric Oncology
2005	Expert Panel Reproductive and Developmental Toxicity of Styrene. Center for the Evaluation of Risks to Human Reproduction. National Toxicology Program.
2005	Member, Informal Population Sciences Biorepository Advisory Group, National Cancer Institute.
2005-2009	Member, External Advisory Board, Duke University Brain Tumor SPORE.
2005-Present	Member, External Advisory Board, University of Pittsburgh Head and Neck Cancer SPORE.
2006-2009	Member, Committee on Contaminated Drinking Water at Camp Lejeune. National Research Council.
2009	Member, Search Committee, Associate Director, Epidemiology and Genetics Research Program, Division of Cancer Control and Population Sciences, National Cancer Institute.
2009	Member, Search Committee, Director, Environmental Public Health Division, National Health and Environmental Effects Research Laboratory, U.S. Environmental Protection Agency.
2009-2012	Member at Large, Board, Society for Epidemiologic Research
2010	Ad-Hoc Reviewer, National Toxicology Program, Board of Scientific Counselors Meeting
2010-2011	Vice-Chair, Committee to Review the Draft IRIS Assessment of Formaldehyde, National Research Council
2010-Present	External Advisory Committee, Translational Epidemiology Research Training program, University of Minnesota.

2012	MURDOCK Study Epidemiology Advisory Board, Duke University
2013-Present	External Advisory Committee, Cancer T32 Training Grant, Columbia University
2013-Present	External Advisory Committee, Vanderbilt Training Program in Molecular and Genetic Epidemiology of Cancer
2013	Ad-Hoc Member, NIEHS Tenure Review Committee
2014	Member, Qualification Review Board, Editor-In-Chief, <i>Environmental Health Perspectives</i> .
2014-	External Advisory Committee, Ohio State University Comprehensive Cancer Center.
2015	Chair, Peer Review Panel for the Draft Report on Carcinogens Monograph on Selected Viruses. National Toxicology Program, December 17, 2015.
2017-Present	Member, Committees to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides. Eleventh Biennial Update. Institute of Medicine, National Academy of Sciences. Final Approval Pending.
2017	Member, NIEHS Board of Scientific Counselors Review, Epidemiology Branch, Division of Intramural Research, National Institute of Environmental Health Sciences, May 8, 2017, Research Triangle Park, NC.

University Committees

1991-1993	Doctoral Program Committee Department of Epidemiology
1993	Admissions Committee Department of Epidemiology
1993	Information Systems Committee Department of Epidemiology
1993- 1998	Advisor, Department Newsletter Department of Epidemiology
1994	Member, Task Group on Tenure and Promotion Department of Epidemiology
1994-1996	Curriculum Committee Department of Epidemiology

1996- 2006	Graduate Studies Committee Department of Epidemiology
1997-2006	Chair, Curriculum Subcommittee Department of Epidemiology
1998-1999	Chair, Cancer Faculty Search Committee Department of Epidemiology
1998	Member, Health Sciences Library Committee School of Public Health
1998-	Program Head, Cancer Epidemiology Department of Epidemiology
1999-2001	Chair, Cancer Faculty Search Committee Department of Epidemiology
1999,2000	Southard Award Committee School of Public Health
1999	Delta Omega Award Committee School of Public Health
2000	Greenberg Award Committee School of Public Health
2002-2006	Space Committee School of Public Health
2002-2003	Appointment, Promotion, and Tenure Committee School of Public Health
2003-2005	Chair, Appointment, Promotion, and Tenure Committee School of Public Health
2005-2006	Chair, Department of Biostatistics Chair Search Committee School of Public Health
2006-	Member, Sheps Center Policy Board
2007	Member, Center for Women's Health Research Director Search Committee
2007	Member, ad hoc committee to review Center Director (H. Shelton Earp)
2008-	Research Fellow, Cecil G. Sheps Center for Health Services Research

2008	Chair, UNC Lineberger Comprehensive Cancer Center Associate Director Search Committee
2009-	Leader, University Cancer Research Fund Population Sciences Theme Team
2009-	Member, Research Computing Coordinating Committee, University of North Carolina
2009-2013	CTSA/NC TraCS Institute Translational Research Advisory Board
2010	CTSA/NC TraCS Institute Education Core Interdisciplinary Advisory Committee
2011	UNC Health Informatics Taskforce
2012-	UNC Health Informatics Program Steering Committee
2013-2015	Member, Carolina Population Center Training Program Committee
2016-2017	Member, Search Committee, Director, Carolina Population Center
2017-	Member, Precision Health and Society Workgroup

Teaching

1981-86	EPI 513 Epidemiologic Methods, University of Washington (Teaching Assistant)
1989-90	Clinical Epidemiology, School of Medicine, University of Pittsburgh (Instructor)
1994-1997	EPID268, Theory and Quantitative Methods in Epidemiology (Co-Instructor)
1992-	EPID 851 Reproductive and Perinatal Epidemiology (Lead Instructor, 1993-2005, 2014)
2006-	EPID775 Advanced Cancer Epidemiology
2007-2009	EPID690 Integrating Biomarkers in Population-based Research (Lead Instructor)
2016	Advanced Topics in Perinatal and Pediatric Epidemiology

Theses and Dissertations

Masters Theses (Major Advisor)

- 1993 Gwenevere C. McIntosh: Paternal Age and the Risk of Birth Defects.
- 1993 Susan E. Carozza: Maternal Exposure to N-nitrosatable Drugs as a

Risk Factor for Childhood Brain Tumors.

- 1994 External Examiner, McGill University, Department of Epidemiology and Biostatistics: C. Sharpe: Risk Factors for Wilms' tumor: analysis of a case-control study.
- 1995 Michael McMahon: The Risk of Vaginal Birth After Previous Cesarean.
- 1998 Qinghong Yang: Parental Smoking and Alcohol Consumption and Risk of Neuroblastoma.
- 1998 Michael Cook: Prenatal Medication Use and the Risk of Childhood Cancer: A Review of Epidemiologic Studies.
- 2000 Juliet Hatcher: Multiple Myeloma and Diagnostic Radiation Among Blacks and Whites in the United States.
- 2001 Tara Patton: Parental Exposure to Medical Radiation and Neuroblastoma in Offspring.
- 2001 Mia Gaudet: Diet, Polymorphisms of GSTM1 and GSTT1 and Incidence of Head and Neck Cancer.
- 2003 Katrina Trivers: Demographic and Lifestyle Predictors of Survival in Patients with Esophageal or Gastric Cancers.
- 2004 Elizabeth Bluhm: Maternal Use of Recreational Drugs and Neuroblastoma in Offspring.
- 2004 Erin McCall: Maternal Hair Dye Use and Neuroblastoma.
- 2004 Muge Calikoglu: Polymorphisms of Methylenetetrahydrofolate reductase (MTHFR), Preconceptional Multivitamin Use and Risk of Preterm delivery
- 2005 Stephanie Saddlemire: Breastfeeding and Wilms tumor.
- 2007 Jonathan George: XRCC1 polymorphisms, dietary folate intake, and risk of squamous cell carcinoma of the head and neck.
- 2008 Jennifer Slickers: Maternal body mass index and lifestyle exposures affect the risk of bilateral renal agenesis or hypoplasia.
- 2008 Brian Feldman: Maternal perinatal vitamin and mineral supplementation and the risk of Wilms in offspring.
- 2008 Ruchika Goel: Maternal exposure to medical radiation and Wilms tumor in the offspring: A report from the Children's Oncology Group.
- 2015 Anne Williams: Determinants of contagious mastitis in organic and conventional dairy herds in North Carolina.
- 2017 Marisa Ryan: Risk factors for anotia/microtia: The National Birth Defects Prevention Study, 1997-2011.

Doctoral Dissertations (Major Academic Advisor)

- 1994 Patricia G. Schnitzer: Paternal Occupation and the Risk of Birth Defects in Offspring.
- 1996 Susan Lief: Maternal Cigarette Smoking During Pregnancy and Risk of Oral Facial Clefts in Newborns.
- 1998 Samuel Arbes: Factors Contributing to the Racial Differences in Survival from Oral Cancer.
- 1999 Jane Schroeder: Epidemiology of t(14;18) non-Hodgkin's lymphoma.
- 1999 Julie Daniels: Occupational and Residential Pesticide Exposure and Risk of Neuroblastoma.
- 1999 Anneclaire De Roos: Parental Occupational Exposures and the Incidence of Neuroblastoma in Offspring.
- 2001 Michael Cook: Maternal and Paternal Medication Use and Neuroblastoma in the Offspring.
- 2001 Garth Rauscher: Family Histories of Cancer and Joint Contribution with Exposures in the Incidence of Acute Leukemia in Adults
- 2001 Stacy Geisler: Survival and Squamous Cell Carcinoma of the Head and Neck.
- 2002 Edwin van Wijngaarden: Parental Occupational Exposures and Childhood Brain Tumors.
- 2003 Stephanie Mulherin Engel: Genetic Variation in Pro- and Anti-Inflammatory Cytokines and Risk of Preterm Birth and Small-for-Gestational Age.
- 2005 Suzanne Gilboa: Seven County Study of Air Quality and Birth Defects, Texas, 1997-2000.
- 2006 Martha Felini: Reproductive Factors and DNA Repair Polymorphisms XRCC1 and MGMT Associated with Adult-Onset Gliomas.
- 2009 Reem Hasan: Vaginal bleeding in early pregnancy: patterns, predictors, and association with miscarriage.
- 2009 Jessica Lazenby: Preconception and Prenatal Maternal Caffeine Consumption and Diagnosis of Wilms Tumor in Offspring: Results from a North American Case-Control Study.
- 2009 Shannon Laughlin: Elimination and Size Reduction of Fibroids During Pregnancy and Postpartum Uterine Remodeling.

- 2010 Sharon Myers: Pesticide Use and Uterine Leiomyoma Prevalence Among Farm Women: An Analysis of the Agricultural Health Study with Assessment of Outcome Misclassification.
- 2011 Tania Desrosiers: Maternal Occupational Exposure to Organic Solvents During Pregnancy and Selected Congenital Anomalies Among Offspring.
- 2011 Anne Hakenewerth: Joint Effects of Alcohol Consumption and Polymorphisms in Alcohol and Oxidative Stress Metabolism Genes on Risk and Survival from Head and Neck Cancer.
- 2012 Kimon Divaris: Exploring the Genetic Basis of Chronic Periodontitis: A Genome-Wide Approach.
- 2013 Annah Wyss: Single Nucleotide Polymorphisms in Nucleotide Excision Repair Genes and Head and Neck Cancer Risk and Outcomes.
- 2013 Jeannette Stingone: Maternal Exposure to Criteria Air Pollutants During Early Pregnancy and Congenital Heart Defects in Offspring.
- 2013 Nicholas Taylor: Common Genetic Variation in Cell Cycle Regulatory Genes and Etiology of Intrinsic Breast Cancer Subtype: A Candidate Gene Approach.
- 2014 Leila Family: Associations Between Genetic polymorphisms in DNA bypass polymerases and base excision repair genes with the risk of breast cancer.
- 2016 Saira Khan: Diabetes and Prostate Cancer Aggressiveness at Diagnosis and Progression in White Americans and Black Americans from the North Carolina-Louisiana Prostate Cancer project (PCaP).
- 2016 Angela Liu Mazul: Single Nucleotide Polymorphisms in Vitamin A, Folate and Choline Related Genes and Interaction with Maternal Vitamin Intake and Neuroblastoma.
- 2018 Marie-Josèphe Horner: Cancer Burden Among HIV-Infected Individuals on Antiretroviral Therapy in Malawi: A Record Linkage Study.

External Dissertation Reader

- 2003 Kimberly Perez: Urogenital and Reproductive Outcomes in Men Prenatally Exposed to Diethylstilbesterol. Department of Social and Preventive Medicine. State University of New York at Buffalo.

Journal Refereeing

American Journal of Epidemiology
 American Journal of Industrial Medicine
 American Journal of Obstetrics and Gynecology
 Annals of Oncology

Biomarkers
BMC Cancer
BMC Medical Research Methodology
British Journal of Cancer
Cancer
Cancer Causes & Control
Cancer Epidemiology, Prevention, & Biomarkers
Cancer Letters
Cancer Research
Cleft Palate-Craniofacial Journal
Clinical Cancer Research
Pharmacoepidemiology and Drug Safety
Epidemiology
The European Journal of Cancer
European Journal of Oral Sciences
FASEB
Fertility and Sterility
Genetic Epidemiology
Head & Neck
International Journal of Cancer
International Journal of Epidemiology
Journal of Andrology
Journal of the National Cancer Institute
Journal of Clinical Oncology
Journal of Pediatrics
Medical and Pediatric Oncology
Nutrition and Cancer
Oral Diseases
Paediatric & Perinatal Epidemiology
Pediatric Blood & Cancer
Pediatric Hematology and Oncology
Pharmacogenetics
Reproductive Toxicology
Teratology
Xenobiotica

Editorial

Editorial Board, Cancer Causes and Control, 2003-
Associate Editor, American Journal of Epidemiology, 2004-2014
Associate Editor, Cancer Research, 2004-2010
Associate Editor, International Journal of Molecular Epidemiology and Genetics, 2009-
Editorial Board, Cancer Medicine, 2012-
Senior Editorial Board, Epidemiology, 2013-
Editor-in Chief, Current Epidemiology Reports, 2013-

Other Reviewing

2002: Institute of Medicine, National Academy of Sciences: "Veterans and Agent Orange. Herbicide/Dioxin Exposure and Acute Myelogenous Leukemia in the Children of Vietnam Veterans. National Academy Press, 2002.

2002: Institute of Medicine, National Academy of Sciences: "A Literature Review of Pesticides and Solvents. Committee on Gulf War and Health. National Academy Press, 2003.

2010: Centers for Disease Control and Prevention: "The Health Consequences of Smoking and Involuntary Exposure to Tobacco Smoke: An Update." Chapter on "Tobacco Exposure and Congenital Defects".

2013: Chapter Reviewer, U.S. Department of Health and Human Services. The Health Consequences of Smoking —50 Years of Progress: A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2014.

Evaluation of Faculty for Promotion

Duke University
Emory University
Fred Hutchinson Cancer Research Center
Georgetown University
Harvard University
Indian Statistical Institute
John Hopkins University
MD Anderson Cancer Center
National Institute of Environmental Health Sciences
North Carolina State University
Stanford University
State University of New York, Buffalo
Tufts University
University of Alabama, Birmingham
University of British Columbia
University of California, Berkeley
University of California, Los Angeles
University of Michigan
University of Minnesota
University of Pennsylvania
University of Pittsburgh
University of Rochester
University of South Carolina
University of Utah

Grant and Program Review

1993-1996 National Cancer Institute of Canada Review Committee, Standing Member

1994-1996 National Cancer Institute, Ad-Hoc Review.

- 1995 National Institute of Environmental Health Sciences, Center Grant Site Visit.
- 1997 National Institute of Environmental Health Sciences, Chair, R03 Special Review Committee.
- 1999 Grant review committee, National Cancer Institute of Canada RFP, Cancer Etiologic Research, Toronto, September 13, 1999.
- 2000 National Institutes of Health, Epidemiology and Disease Control-2 (EDC-2), Special Emphasis Panel, ZRG1 (03), Chair, April 7, 2000.
- 2000 Site Visit Team Member, Division of Epidemiology, Statistics and Prevention Research, National Institute of Child Health and Human Development, December 4-6, 2000.
- 1999- 2001 National Institutes of Health, Epidemiology and Disease Control-2 (EDC-2) Study Section, Regular Member.
- 2002 Epidemiology Study Section Committee, Tobacco-Related Disease Research Program, May 18-19, 2002.
- 2003 National Institutes of Health, SNEM-5 Study Section.
- 2003 National Institutes of Health, RFA: "Long Term Cancer Survivors" Review Committee.
- 2004 National Cancer Institute, Program Project: "New Approaches to the Biology of MDS". MD Anderson Cancer Center, Initial Review Group.
- 2004 National Cancer Institute, Program Project: "Childhood Brain Tumors: Biologic and Environmental Risks". University of California, Berkeley, Initial Review Group.
- 2007 CDC Risk Factors for Birth Defects Special Emphasis Panel.
- 2008- Alex's Lemonade Stand Foundation for Childhood Cancer.
- 2008 Children with Leukaemia Foundation.
- 2008 Site Visit Team Member, NICHD, Division of Epidemiology, Statistics and Prevention Research, National Institute of Child Health and Human Development, September 24-26, 2008.
- 2010 Site Visit Team Member, NCI, New Mexico Cancer Center, February 25, 2010.
- 2011 Ad Hoc Member, NCI-F Review Subcommittee on Manpower and Training, February 22-23, 2011
- 2011 Ad Hoc Member, NIH, Special Emphasis Panel, ZRG1 PSE-D (03)

- 2012 Site Visit Team Member, NCI, City of Hope Cancer Center, May 22, 2012
- 2013 Site Visit Team Member, NCI, Mayo Clinic Cancer Center, December 3, 2013

PROFESSIONAL ORGANIZATIONS

- 1984- Present Society for Epidemiologic Research
 1986- Present Teratology Society
 1988- Present International Society of Pediatric Oncology
 2002- Present International Society for Environmental Epidemiology
 2003- Present American Association for Cancer Research
 2005- Present Society for Pediatric and Perinatal Epidemiology
 2009- 2014 American Epidemiological Society
 2013- Present American Society of Preventive Oncology

GRANT SUPPORT:

(Total Costs Indicated)

- 1984-1985 Institutional Cancer Grant IN-26Y from the American Cancer Society. University of Washington, Principal Investigator (Graduate Student Research).
- 1984-1985 Training Grant, National Cancer Institute, Cancer Epidemiology and Biostatistics.
- 1984-1986 Co-Investigator: A Case-Control Study of Risk Factors for Wilms' Tumor. Research Grant from the March of Dimes Birth Defects Foundation. (N. Breslow, Principal Investigator).
- 1986 Predoctoral Stipend, Charles A. Dana Foundation Grant for Program in Genetics and Environmental Health (A.G. Motulsky, Director).
- 1986-1988 Co-Investigator: Paternal Occupation and Birth Defects in Offspring. Research Grant from the March of Dimes Birth Defects Foundation. (P.A. Baird, Principal Investigator).
- 1986-1988 Co-Investigator: Paternal Occupation and Birth Defects in Offspring. Research Grant from the B.C. Health Care Research Foundation. (P.A. Baird, Principal Investigator).
- 1991 Principal Investigator: An Ecogenetic Study of Head and Neck Cancer, Biomedical Research Support Grant, School of Medicine, University of Pittsburgh.
- 1991-1997 Principal Investigator: A Case-Control Study of Risk Factors for Neuroblastoma, R01 CA 57004, N.I.H.

- 1992-1993 Co-Principal Investigator: The Role of Diet in the Etiology of Head and Neck Cancer. Institute of Nutrition Grant, University of North Carolina.
- 1992 Co-Principal Investigator: International Conference on Male-Mediated Developmental Toxicity, CA 58438, N.I.H.
- 1993-1994 Principal Investigator: Paternal Occupation and Risk of Birth Defects in Offspring. Research Grant from the March of Dimes Birth Defects Foundation.
- 1993-1998 Principal Investigator: Carcinogen Metabolizing Enzymes and Head and Neck Cancer, R01 CA61188, N.I.H.
- 1993-1996 Co-Investigator: Study of Multiple Myeloma Among Workers Exposed to Ionizing Radiation and Other Physical and Chemical Agents. Centers for Disease Control. (S. Wing, Principal Investigator).
- 1994-1995 Principal Investigator: The Role of Human Papillomavirus in the Etiology of Head and Neck Cancer: A Molecular Epidemiology Study. Lineberger Comprehensive Cancer Center, Cancer Prevention and Control and Cancer Epidemiology Research Award, University of North Carolina.
- 1996-1998 Principal Investigator: Epidemiology of t(14;18) in Non-Hodgkin's Lymphoma R03CA71617, N.I.H.
- 1992-1998 Co-Investigator: Research to Advance Environmental Epidemiology: Improving the Use of Human Data in Risk Assessment. CR820076, U.S. EPA. (D. Savitz, Principal Investigator).
- 1997-1998 Principal Investigator: A Case Control Study of Risk Factors for Wilms Tumor. R55 CA75385, Shannon Award, N.I.H.
- 1997-1998 Co-Investigator: Epidemiology of Clubfoot. R01HD28779, N.I.H. (B. Alderman, Principal Investigator).
- 1997-2002 Co-Investigator: Epidemiology of Down Syndrome and Down Syndrome-Leukemia. R01CA75169, N.I.H., (J. Ross, Principal Investigator).
- 1998-2004 Principal Investigator: A Case Control Study of Risk Factors for Wilms Tumor. R01 CA75385-01, N.I.H.
- 1999-2000 Co-Principal Investigator: A Multifactorial Study of Survival in Head and Neck Cancer. Oral & Maxillofacial Surgery Foundation.
- 1999-2015 Co-investigator. Cancer Center Core Support Grant – Program Leaders Cancer Center Core Support Grant – Rapid Case Ascertainment Core P30-CA1601866-30 (H. Earp, Principal Investigator).
- 2001-2011 Principal Investigator: Training Grant in Cancer Epidemiology. 2-T32-CA09330-21-26, N.I.H.

- 2000-2001 Principal Investigator: The Role of Folic Acid and Methylenetetrahydrofolate Reductase (MTHFR) Polymorphisms in Preterm Delivery in North Carolina. Institute of Nutrition, University of North Carolina.
- 2001-2010 Co-Investigator (Core Director, Developmental Susceptibility Research Core): UNC-CH Center for Environmental Health and Susceptibility. National Institute of Environmental Health Science, (J. Swenberg, Principal Investigator).
- 2001-2008 Principal Investigator: Gene-Environment Interaction in Head and Neck Cancer R01CA90731-01, NIH.
- 2001-2002 Principal Investigator: International Conference on Male Mediated Developmental Toxicity. 1-R13-HD/ES40801-01, NIH.
- 2001-2006 Principal Investigator: Drinking Water Disinfection By-Products and Male Reproductive Health: Semen Quality and Sperm Biomarkers. R-82932701-0 (Cooperative Agreement), US Environmental Protection Agency, \$500,000.
- 2003-2008 Co-Investigator (K. North, PI): Gene-by-smoking interaction and risk of atherosclerosis. NIH.
- 2006-2008 Co-Investigator (B. Entwisle, PI): Incorporating a Biomedical Perspective in Population-Based Research. R25 HD053765, N.I.H.
- 2007-2012 Principal Investigator: Quality of Life Among African-American Head and Neck Cancer Survivors. Lance Armstrong Foundation.
- 2007-2011 Co-Investigator (B. Entwisle, PI): Study Centers for the National Children's Study. HHSN267200700049C. NICHD.
- 2002- 2013 Principal Investigator: North Carolina Center for Birth Defects Research and Prevention. U50/CCU422096-01 (Cooperative Agreement) Centers for Disease Control.
- 2008-2013 Principal Investigator: Genetic Susceptibility Factors in the Etiology of Neuroblastoma. 1-R01-CA132887-01. NCI.
- 2008-2012 Co-Principal Investigator (A.M. Siega-Riz, PI): Training Program in Reproductive, Perinatal, and Pediatric Epidemiology. 5-T32-HD052468-02, NICHD.
- 2010-2013 Co-Investigator (R. Fry, PI): In utero to arsenic, links to epigenetic variation and disease. R01-ES019315, NIEHS.
- 2011-2013 Co-Investigator (A. Herring, PI): Bayesian Methods for High-Dimensional Epidemiologic Data. R01-ES020619, NIEHS.
- 2013-2017 Co-Principal Investigator (C. Ambrosone, PI): Epidemiology of Breast Cancer Subtypes in African American Women: A Consortium. P01CA151135, NCI.

2013- 2018 Principal Investigator: North Carolina Birth Defects Study To Evaluate Pregnancy Exposures (NC BDSTEPS). 1U01DD001036-01. (Cooperative Agreement) Centers for Disease Control.

PUBLICATIONS:

Book

Male-Mediated Developmental Toxicity, Editors: **AF Olshan** and DR Mattison, New York Plenum Press, 406 pp, 1994.

Epidemiology, Pathogenesis, and Prevention of Head and Neck Cancer. Editor: **AF Olshan**, Springer-Verlag, 2010.

Chapters and Other Publications

Olshan AF: Familial and Genetic Associations. In: Epidemiology and Biology of Multiple Myeloma, Editors: M. Potter and G.I. Ojra, Berlin:Springer-Verlag, pp. 31-39, 1991.

Reproductive Effects, Chapter 9, In: Veterans and Agent Orange. Health Effects of Herbicides Used in Vietnam. National Academy Press, 1994.

Herrinton LJ, Weiss NS, **Olshan AF**. The Epidemiology of Multiple Myeloma. In: Myeloma, Editors: Bergsagel D, Kyle RA, Malpas JS, Oxford University Press, 1994.

Olshan AF and P. Schnitzer: Paternal Occupation and Birth Defects.

In: Male-Mediated Developmental Toxicity, Editors: **AF Olshan** and DR Mattison, Plenum Press, 1994.

Herrinton LJ, Weiss NS, Koepsell TD, **Olshan AF**. Multiple Myeloma. In: Cancer Epidemiology and Prevention, Editors: D. Schottenfeld and JF Fraumeni, Oxford University Press, pp. 946-970, 1996.

Reproductive Effects, Chapter 9, In: Veterans and Agent Orange. Health Effects of Herbicides Used in Vietnam. National Academy Press, 1996.

Reproductive Effects, Chapter 9, In: Veterans and Agent Orange. Health Effects of Herbicides Used in Vietnam. National Academy Press, 1998.

Goodman MT, Gurney JG, Smith MA, **Olshan AF**. Sympathetic nervous system tumors. Chapter IV. In: Ries, LAG, Smith MA, Gurney JG, Linet M, Tamra T, Young JL, Bunin GR (eds). Cancer Incidence and Survival among Children and Adolescents: United States SEER Program 1975-1995, National Cancer Institute, SEER Program. NIH Pub. No. 00-4649. Bethesda, MD 1999.

Bernstein L, Linet M, Smith MA, **Olshan AF**. Renal Tumors. Chapter VI. In: Ries, LAG, Smith MA, Gurney JG, Linet M, Tamra T, Young JL, Bunin GR (eds). Cancer Incidence and Survival among Children and Adolescents: United States SEER Program 1975-1995, National Cancer Institute, SEER Program. NIH Pub. No. 00-4649. Bethesda, MD 1999.

Olshan AF, Anderson L, Roman E, Fear N, Wolff M, Whyatt R, Vu V, Diwan BA, Potischman N. Workshop to Identify Critical Windows of Exposure for Children's Health: Cancer Work Group Summary. Environ Health Perspect, 108 (Suppl 3):595-597, 2000.

Olshan AF and Bunin GR: Epidemiology of Neuroblastoma. In: Neuroblastoma. Brodeur GM, Sawada T, Tsuchida Y, Voute PA (Eds). Elsevier, Amsterdam, pp 33-39, 2000.

Olshan AF. Pesticides and Childhood Cancer: A Review and Perspective. Children's Environmental Health: What Role for the Federal Government? Congressional Research Service, 107-62, 2002.

Olshan AF and van Wijngaarden E : Paternal Occupation and Childhood Cancer. In: Advances in Male Mediated Developmental Toxicity. Robaire B, Hales BF (Eds.) Plenum Press, 147-161, 2003.

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De Roos, AJ, **Olshan AF**, Teschke K, Poole C, Pollock BH, Bondy ML. Parental occupational exposures to chemicals and the incidence of neuroblastoma in offspring. *Am J Epidemiol* 151:S47, 2000.

Baris D, Garrity TJ, Telles JL, Heineman EF, **Olshan A**, Zahm SH. A cohort mortality study of Philadelphia firefighters. *Am J Epidemiol* 151:S84, 2000.

Morris RA, Jeffay SC, Strader LF, Evenson DP, **Olshan AF**, Lansdell LW, Perreault SD. Evaluation of sperm chromatin structure assay (SCSA®) in human sperm after simulated overnight shipment. *J. Andrology, Suppl.*, 54, 2003.

Jeffay SC, Strader LF, Morris RA, Schmid JE, **Olshan AF**, Lansdell LW, Perreault SD. Comparison of three methods for counting human spermatozoa. *J. Andrology, Suppl.*, 55, 2003.

Ross, JA, Blair, CK, Robison, LL, Smith, FO, **Olshan, AF**, Heerema, NA, Roesler, M. Maternal vitamin supplementation around the time of pregnancy and risk of leukemia in children with Down syndrome. *Cancer Epidemiology, Biomarkers & Prevention*, 13:1852S, 2004.

Huang, WY, **Olshan, AF**, Schwartz, SM, Berndt, SI, Chu, C, Hayes, RB. A pooled analysis of DNA repair polymorphisms and head and neck cancer risk. *Cancer Epidemiology, Prevention & Biomarkers*, 13:1931S, 2004.

Engel, SM, **Olshan, AF**, Savitz, DA, Thorp, J, Erichsen, HC, Chanock, SJ. Anti-inflammatory cytokine polymorphisms and risk of small-for-gestational age or spontaneous preterm birth. *American Journal of Epidemiology*, 159: Suppl. S, S34, 2004.

Gilboa, SM, Mendola, P, **Olshan, AF**, Herring, AH, Harness, C, Langlois, P. Case-control study of air quality and birth defects: Comparison of geocoded and nongeocoded populations. *American Journal of Epidemiology*, 159:Suppl. S, S48, 2004.

Jeffay, SC, Buus, RM, Strader, LF, **Olshan, AF**, Evenson, DP, Perreault, SD. Evaluation of chromomycin A(3) assay in human sperm after simulated overnight shipment. *Journal of Andrology, Suppl. S*, 91, 2004.

Gilboa, SM, Mendola, P, **Olshan, AF**, Langlois, P, Savitz, DA, Loomis, D, Herring, AH, Fixler, DE. Relationship between air quality and selected cardiac defects and oral clefts, seven county study, Texas, 1997-2000. *Epidemiology*, 16: S46-S47, 2005.

Jeffay SC, Buus RM, Strader LF, **Olshan AF**, Evenson DP, Perreault SD. Evaluation of chromomycin A3 (CMA) assay in human sperm after simulated overnight shipment, *J. Andrology* 25, Suppl., 91, 2004.

Strader L, Jeffay S, Herring A., **Olshan A.**, Bradley L., Smith J, Perreault S. Sperm count distributions in fertile men. *J. Andrology Suppl.* March/April, p. 78, 2005.

Jeffay SC, Strader LF, Buus RM, Evenson DP, **Olshan AF**, Herring AH, Bradley LE, Smith JC, Perreault SD. Relationships among semen endpoints used as indicators of sperm nuclear integrity. *J. Andrology Suppl.*, 55, 2006.

Luben TJ, **Olshan AF**, Herring AH, Jeffay S, Strader L, Chan RL, Savitz DA, Perreault, S.D. The Health Men Study: An evaluation of exposure to water disinfection by-products and sperm quality. J. Andrology. 28, Suppl., 55, 2007.

INVITED PRESENTATIONS:

Epidemiology of Childhood Cancers. National Cancer Institute Meeting: Perinatal Carcinogenesis: Current Directions, Frederick, Maryland, 1990.

Epidemiology and Genetics of Wilms' Tumor. Department of Human Genetics, University of Pittsburgh, 1990.

Male-Mediated Developmental Toxicity: Paternal Exposures and Birth Defects. North Carolina Medical Genetics Association Meeting, 1992.

Male-Mediated Developmental Toxicity: Epidemiologic Perspectives. Department of Epidemiology, Johns Hopkins University, 1992.

Monitoring the Human Population for Genotoxic Effects: Epidemiologic Approaches to the Study of Male-Mediated Teratogenesis. Genotoxicity and Environmental Mutagen Society Annual Meeting, Raleigh, North Carolina, 1992.

Cyclosporin A: Review of genotoxicity and potential for adverse human reproductive effects. International Commission for Protection Against Environmental Mutagens and Carcinogens, 26th Annual Meeting, Compiègne, France, 1993.

Male-mediated developmental toxicity: Epidemiologic Evidence. Symposium: Male Mediated Developmental Toxicity: Fact or Fiction?, Annual Meeting of The Society of Toxicology, New Orleans, 1993.

Paternal Occupation and Neural Tube Defects. International Conference on Neural Tube Defects, Harlingen, Texas, 1993.

Molecular Epidemiology of Head and Neck Cancer. University of Michigan Cancer Center, 1997.

Molecular Epidemiology of Head and Neck Cancer. National Institute of Dental Research, 1998.

Parental Occupation and Childhood Cancer. Children's Environmental Health and Safety Task Force (CDC, ATSDR, EPA, NCI, DOE, NIEHS). Cancer Work Group Meeting. Washington, DC., 1998.

Molecular Epidemiology: Prospects and Strategies. Committee on Developmental Toxicity. National Research Council. Washington, DC, June, 1998.

Agent Orange Health Effect Review: Methodology. Committee on Health Effects Associated with Exposures Experienced During the Gulf War. Institute of Medicine. Washington, DC, June, 1999.

Molecular Epidemiology in the Environmental Genome Project. Division of Extramural Research and Training, National Institute of Environmental Health Sciences, Planning Retreat, January 11, 2000, Pinehurst, NC.

The Human Story: Where are We Now? Symposium on Male-Mediated Developmental Toxicity, Teratology Society Meeting, Montreal, June 24, 2001.

Head and Neck Cancer as a Model for Gene-Environment Interaction. 13th Conference of the International Society for Environmental Epidemiology, Symposium on Gene-Environment Interaction, September 2-5, 2001, Garmisch-Partenkirchen, Germany.

The Human Story- Where are we now? March of Dimes Symposium, Male-Mediated Developmental Toxicity, Teratology Society Meeting, Montreal, June 24, 2001.

Head and Neck Cancer as a Model for Gene-Environment Interaction. University of Minnesota Cancer Center, Minneapolis, February 5, 2002.

NC Center for Birth Defects Research and Prevention. NC Statewide Joint Maternal-Fetal Medicine Joint Meeting. Chapel Hill, NC, April 11, 2003.

Cancer and the Environment. Cancer Issues 2003. National Press Foundation. Washington, DC, October 22, 2003.

Environment and childhood cancer: challenges and prospects. International Childhood Cohort Consortium meeting. Rockville, MD, September 28, 2005.

Birth Defects and Childhood Cancer: Epidemiologic Approaches and Opportunities. National Cancer Institute Meeting on Epidemiology of Birth Defects and Cancer, February 13, 2006.

Childhood Cancer as a Model for Developmental Disorders. Symposium on the role of environmental toxicity and human disease, Society of Toxicology Annual Meeting, Charlotte, NC, March 26, 2007.

Environment, Epidemiology, and Childhood Cancer: At a Crossroads? Hacettepe University Institute of Oncology, Ankara, June 26, 2007.

Environment, Epidemiology, and Childhood Cancer: At a Crossroads? National Institute of Environmental Health Sciences, July 16, 2007.

Formaldehyde Studies. Current Topics in Occupational and Environmental Cancer. National Cancer Institute. November 28, 2007.

Rapid Case Ascertainment. Cancer Control and Population Science Directors and Program Leaders Meeting. Sixth Annual AACR International Conference Frontiers in Cancer Prevention, December 6, 2007.

Integrating Biomarkers Into Population Research. School of Social and Family Dynamics Center for Population Dynamics, Arizona State University, Tempe, AZ. April 7, 2009.

Epidemiology as Translational Science. University of Ulm, Ulm, Germany, July 29, 2009.

The Epidemiology of Childhood Cancer: Lessons Learned and What's Next. Texas Children's Hospital, Houston, Texas, March 4, 2010.

The Epidemiology of Neuroblastoma. Children's Neuroblastoma Cancer Foundation, July 29, 2011.

The Epidemiology of Childhood Cancer: Lessons Learned and What's Next. Duke University, Cancer Control Seminar Series, Durham, NC, October 11, 2011.

Gene-Environment Interaction in Head and Neck Cancer: The Role of Alcohol Metabolism. North Carolina Central University, Durham, NC, November 30, 2011.

The Causes of Birth Defects: Opportunities and Challenges. Department of Public Health Sciences. Medical University of South Carolina. Charleston, SC, April 28, 2014.

The Causes of Birth Defects: Opportunities and Challenges. Pediatrics, Moses H. Cone Memorial Hospital. Greensboro, NC, May 7, 2014.

Approaches to Studying the Etiology of Neuroblastoma: The Neuroblastoma in North America (NENA) Study. Department of Pediatric Hematology/Oncology, Columbia University Medical Center, New York, NY, November 18, 2015.

The Evolution of Cancer Epidemiology: Promise and Pitfall. Geoffrey Howe Memorial Lecture at the Columbia University Epidemiology Grand Rounds. Department of Epidemiology, Columbia University. New York, NY, November 18, 2015.

The UNC CHANCE Study: Adventures in the Molecular Epidemiology of Head and Neck Cancer. Department of Environmental Health, University of Cincinnati, Cincinnati, Ohio, March 30, 2016.

Gene-Exposure Interaction in the Etiology of Childhood Cancer. Symposium. Germline Genetic Risk of Childhood Cancer: Where Do We Go from Here? Minneapolis, Minnesota, May 9, 2016

The Evolution of Cancer Epidemiology: Promise and Pitfall. Cancer Control Program Seminar, Ohio State University Comprehensive Cancer Center. Columbus, Ohio, NY, May 25, 2016.

Reflections on the Future of Epidemiology: How Students Can Inform Our Vision. Department of Epidemiology, Johns Hopkins University. December 8, 2017.

INVITED, OTHER:

Invited, Meeting to Review the Status of clinical and epidemiologic research on structural birth defects, NICHD, Bethesda, MD, October 15, 1997

Invited, Meeting on The Need for and Design of a Nationwide Childhood Cancer Registry, Washington DC, July 24, 1998.

Invited, Head and Neck Cancer Priority Setting Workshop, NCI, NIDCR, Bethesda, February 21, 1999

Invited, Toward New Paradigms in Genetic and Molecular Epidemiologic Research: Identifying Infrastructure Needs for Population-Based Studies. NCI, Rockville, MD, February 19, 1999.

External Peer Review Panel, Environmental Protection Agency Preliminary Risk Assessment of Cadmium. Research Triangle Park, NC, August 3, 1999

Cancer Breakout Group Chair, Critical Windows of Exposure for Child's Health. Richmond, VA. Environmental Protection Agency. Richmond, VA, September 14-15, 1999

Invited, EPI-21, Epidemiology in the Twenty-First Century. National Institute of Environmental Health Sciences, Raleigh, NC, October 31- November 2, 1999.

Invited, Workshop on Environmental Contributors to Infant Mortality. National Institute of Environmental Health Sciences, Research Triangle Park, NC, May 15-16, 2001.

Invited, Session Co-Chair, Workshop, Gene-Environment Interactions in the Etiology of Childhood Cancer, National Cancer Institute, Bethesda, MD, March 25-26, 2002.

Invited, Workshop Organizer, Molecular Epidemiologic Approaches to the Evaluation of Cancer Risk, Progression, and Therapeutic Efficacy, The Sixth Research Workshop on the Biology, Prevention, and Treatment of Head and Neck Cancer, McLean, Virginia, October 9-13, 2002.

Invited, Discussant, Childhood Cancer Prevention: Opportunities Before and During Pregnancy to Reduce Risk. Division of Cancer Prevention and Control, Centers for Disease Control and Prevention, May 23, 2014.