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**Geodesy, Inc.**  
**615 East Reeceville Road**  
**Downingtown, PA 19335**

March 22, 2017

Town of Huntersville  
101 Huntersville-Concord Rd.  
Huntersville, NC

Attention: Mr. Gerry Vincent, Town Council Manager

**RE: Proposal to conduct a geospatial/epidemiological investigation into the uveal melanoma cancer cluster in the Huntersville Area.**

Dear Gerry:

As requested by your community, it is my pleasure to provide this letter proposal/scope of services to conduct a geospatial investigation including scientific collaboration with epidemiologists from the University of North Carolina (UNC).

Geodesy, Inc. has several years of experience compiling data from numerous databases to support human health and ecological risk assessments. Risk assessments are predictive studies about the impact of environmental exposure scenarios, however, with the guidance of expert epidemiologists from UNC, an outcome based investigation is being proposed to seek the possible cause of this cancer cluster in the Huntersville community.

It is proposed that John Cassels, Principal Scientist at Geodesy, Inc. will be the spatial analyst for this investigation in collaboration with lead epidemiologist Dr. Andy Olshan, PhD. Dr. Olshan is the Chair of the UNC Epidemiology Department, Gillings School of Public Health. A brief resume and CV are attached.

During the first phase of this investigation, we intend to gathering geospatial data at the local, county and state levels, including but not limited to planimetric/cadastral base layers, current/historic aerial photography, current/historic land use, and numerous additional environmental thematic layers. Overlays of patient behavioral patterns and histories will be analyzed for spatial and temporal patterns within the study population.

A site visit is planned for the week of April 10, 2017 to gain an understanding of local conditions and gather additional location specific data. Locations will be based on direct observations, and interviews with local officials, historians, patients, and their support network. Initial collaboration with project epidemiologists will occur prior to the site visit to develop topics of discussion for pending interviews.

The second phase will begin with a thorough map review and consultation with Dr. Olshan to formulate further investigative direction and emphasis. This may include the need for more specific data collection efforts and perhaps additional field work to gather focused information from the patients, their families, the community, or local environment.

The third phase will include final map preparation of all data collected and report presentation of environmental/health facts found. A list of all references compiled during this investigation will be included. A town hall meeting will be requested to review the mapping prepared and reported finding to the community.

The following are the estimated levels of effort and cost for each Phase described above:

- Phase I – Data gathering and initial map preparation: assumes 68 technical labor hours and \$1,500 in travel related expenses – cost \$7,100
- Phase II – Map review and collaboration: assumes 32 technical labor hours with no expenses anticipated – cost \$2,720
- Phase III – Final mapping/reporting, and on-site presentation: assumes 49 technical labor hours including prep, travel expenses, and presentation – cost \$4,780.

Expenses are estimated to include travel to the Huntersville area during the initial site visit and the follow up trip to report findings. It is assumed that actual direct expenses will be reimbursed at a rate of 1.0. Billing rates proposed included:

Spatial Analyst - \$80.00/technical labor hour

Epidemiologist - \$100.00/technical labor hour

**Total cost (Labor and Expenses) \$14,600**

Thank you for the opportunity to provide this proposal to the Town of Huntersville. If you have any questions, please give me a call at (610) 384-4678.

Best Regards,  
GEODESY, INC.



John Cassels  
President

**Qualifications Summary**

- Thirty-three years of experience conducting environmental investigations in aquatic, marine, and terrestrial ecosystems.
- Career began as a research assistant at the Academy of Natural Sciences of Philadelphia studying natural lakes in northeastern Pennsylvania. Later began to concentrate on water resource investigations primarily storm water management/planning and risk assessment projects where digital information management skills were acquired.
- Experienced in all aspects in aquatic ecological investigations beginning with project planning/design to field coordination, data collection, management, and presentation, technical report writing, Geographic Information Systems (GIS) development, database analysis and cartographic presentation.
- Use of geo-referenced digital photography and digital video documentation during field investigations.
- Recent Certificates received from the Emergency Management Institute upon completion of ICS-100, Introduction to the Incident Command System and ICS-200, ICS for single Resources and Initial Action Incidents.

**John W. Cassels****Fields of Competence**

Environmental investigations, including terrestrial, aquatic, and marine habitats, ecological surveys, hydrologic, and hydrographic surveys, Geographic Information Systems (GIS), Global Positioning Systems (GPS) Computer Aided Design (CAD) and geo-spatial modeling.

**Credentials**

- Graduate Certificate, GIST, Penn State University
- B.Sc., Biology, East Stroudsburg State College
- B.Sc., Marine Science, East Stroudsburg State College
- Emergency Management Institute Certificates including, ICS-100 Introduction to the Incident Command System and ICS-200, ICS for single Resources and Initial Action Incidents. IS-00700.a National Incident Management System (NIMS)
- OSHA 40-h Health and Safety Training, /8-h annual refresher.
- US Coast Guard Safe Boating Certificate
- NAUI and YMCA Certified SCUBA

**Employment History**

1998-Present	Geodesy, Inc.
1997-1998	Cahill Associates
1986-1997	Roy F. Weston, Inc.
1983-1985	Academy of Natural Sciences of Philadelphia

**Municipal Planning History (West Brandywine Twp., PA)**

2016 – Present	Township Board of Supervisors - Member
2013-2014	Municipal Authority Board Member – Secretary
2006-2014	Open Space Review Board, Chairman 2006-2010
2005	Comprehensive Plan Update Committee
2004	Act 209 Committee
2000-2014	Planning Commission Member, Chairman 2003-2004.

**Key Projects**

**Waterway Debris Removal Project, New Jersey Department of the Treasury, Division of Purchase and Property April-August, 2013.** In the wake of Superstorm Sandy, provided geo-processing support using sidescan sonar data collected by several marine survey firms to identify subsurface contacts (debris) which may pose a threat to boater safety in New Jersey coastal waterways. Reports generated daily providing contact target location information and area coverage to marine salvage firms tasked with target removal. GIS support provided for Zones 1, 2, 8, 9, and 10, covering nearly 50,000 acres of coastal waterways.

## **KEY PROJECTS (CONTINUED)**

**BP Gulf Oil Spill Response, USEPA/START-Region 6, June-October 2010.** Provided GIS and Data Management support for EPA at the Incident Command Center (ICC) located in Houma, LA, and later at the Unified Area Command (UAC) in New Orleans, LA. Support included management and upload to EPA Scribe database, oceanographic data collected by NOAA and BP vessels during Subsurface Monitoring Unit (SMU) operations. Provided GIS and data assessment support to NOAA/USCG for the Special Monitoring of Applied Response Technologies (SMART) program, including dispersant test vessel data analysis and GIS summary presentations which helped document the effectiveness of vessel and aerial application of dispersants. Tracked daily operations of EPA's response operations including water, sediment, and air monitoring efforts throughout the region.

**USACE New England District, PCB Contamination of the Housatonic River, OU2, Pittsfield, MA** Geographic Information Manager, 1999- present. Managed GIS overseeing all aspects of project spatial data for several key EPA contractor user groups, including ecological and human health risk assessors, ecologists, hydrologist, geomorphologists, modelers, remedial design, and construction engineers. Led a team of GIS specialists to ensure all spatial data were collected, analyzed, and presented in the most efficient, accurate means available to support one of the largest environmental assessments undertaken by the USEPA. Efficiency was gained through the development of a robust map request and delivery system over a secure internet connection, cutting the time required to get maps on the table in a remote field office from days to hours and sometimes minutes. Developed an interactive application used to simulate remediation by calculating Exposure Point Concentration (EPCs) on the fly for comparison with Interim Media Protection Goals (IMPGs) specified as Human Health Risk Targets for a given Exposure Unit. The tool allows for avoidance of sensitive habitats and selective removal of contaminated soil to achieve remedial goals as well as providing estimates of removal volume.

**Wind Energy Development Site Selection Tool, Confidential Client.** Developed a spatial model to analyze statewide GIS data layers to reveal specific areas within a given state which have the highest wind capacity and power price potential projected over a period years, excluding sensitive areas due to the nature of land use, ownership, and protective status. Results allow the alternative energy developer to focus efforts on highest priority areas with minimal impact on sensitive areas. Separate models and analysis were conducted for the several States including Pennsylvania, New York, Massachusetts, Maine, Kansas, West Virginia, and Ohio. Results provided the top ten locations within each State with maximum potential for wind generation.

**USACE Philadelphia District, Aberdeen Proving Grounds, Canal Creek Spatial Weighting Task, Aberdeen, MD.** Using various interpolation methods, spatially weighted average concentrations for eight contaminants of potential concern (COPC) were calculated for all stream reaches and wetland areas within a 123-acre tidal marsh. Geo-statistics were used to understand the extent of contamination and compute volume and mass estimates as part of a site remediation Feasibility Study.

**Important Mammal Areas of Pennsylvania (IMAP).** Geo-Spatial data analysis used in preparation of IMAP Stewardship Plans and Conservation Assessments for several IMAP locations, including the Hopewell Big Woods, Delaware State Forest, Delaware Water Gap/ Pocono Education Center, Cherry Valley Watershed, and the Laurel Highlands of PA. Analysis of land cover type, sensitive/protected area mapping, and environmental inventories were compiled, summarized and presented for planning purposes. Field surveys were conducted with an innovative vehicle mounted GPS link and real time GIS data access which provided efficient use of field investigation efforts.

**USACE, New England District, AE services for HTRW/MEC Projects.** GIS support for Hazardous, Toxic and Radioactive Waste (HTRW) and Munitions and Explosives Concerns (MEC) projects for the US Army Corps of Engineers at various locations in the North Atlantic Division, including the former Raritan Arsenal, Raritan, NJ., LO-58-Former NIKE Missile Site, Caribou, ME., UST Sites 1 and 2- Former Dow AFB, Bangor, ME., and the Hingham Former Burning Grounds, Hingham, MA.

## **KEY PROJECTS (CONTINUED)**

**Pennsylvania Act 537 Plan Preparation GIS Support Services.** Working as a sub-contractor to the Township Engineer in numerous municipalities including East Nottingham, East Fallowfield, New London, Upper Oxford, Brecknock, Upper Salford, Sadsbury, West Brandywine, and South Heidelberg Townships, prepared environmental resource maps and spatial analysis, as well as, service area, system infrastructure, and soil suitability mapping for the draft review and final Act 537 Plan documents.

**MS4 Stormwater Support Services for Municipalities.** Working as a sub-contractor to the Township Engineer in several municipalities including Honey Brook, Avondale, Penn, New London, London Grove, Earl, Hereford, Upper Salford, East Fallowfield, West Brandywine, and Upper Oxford Townships, provided Phase I and II support, including annual report preparation, TMDL analysis, outfall and other infrastructure mapping and attribution.

**Comprehensive Plan Preparation GIS Support Services.** Working as a sub-contractor to the Township Engineer in New London, East Nottingham, Earl, and Upper Oxford Townships, developed environmental, cultural, scenic and historic resource inventory maps, including composite and priority resources overlay map preparations and spatial analysis for draft review and final Comprehensive Plan documents.

**Open Space, Recreation, and Environmental Resources Plan Development Services.** Several municipalities including Lower Oxford, Birmingham, Upper Oxford, West Nottingham, and New London Townships located in Chester County, Pennsylvania. Managed staff members towards the development of an extensive GIS which included land, water, biotic, scenic, historic, and cultural resources, in addition to flooding, zoning, land use, and other administrative boundary information. Thematic layers were prioritized and overlaid to identify suitability and priorities to aid in decision-making for open space preservation and future development.

**Androscogen River, NH Fish Tissue Sampling Program - USEPA.** Conducted a field sampling effort to during the summer 2009 to collect fish tissue for laboratory analysis to support on-going investigations by USEPA of the Chlor-Alkali Site located in Berlin New Hampshire.

**Ely Copper Mine Site Small Mammal Study- USEPA.** Assisted in a small mammal and terrestrial invertebrate sampling effort to collect small mammal and insect tissue samples for laboratory analysis to support ecological risk assessments for the historic copper mine site located in eastern Vermont.

**Elizabeth River Oyster and Crab Study, USEPA.** Conducted a multi-year study to assess the effects on the growth rate and uptake of organic chemicals in oyster and blue crab in the lower Chesapeake Bay. The study included sampling natural oyster and crab populations to assess chemical levels found in edible tissues as well as deployment and recovery of a several sets of live oysters caged for specific periods of time to gauge contaminant uptake over time.

**Kensico Reservoir Water Quality Control Program, New York City Department of Environmental Protection.** Developed/managed a GIS to support a comprehensive water quality investigation to manage future water supply for the City of New York. GIS support impact analysis of various storm water BMP alternatives as well as provide SWMM modeling input for design purposes. An interactive GIS application was developed to illustrate how retrofit BMPs could reduce the impact of land use change in watersheds. The application allows “what if” scenarios following a display of base conditions. After the user selects an area and changes the land use, the SWMM model is run with results returned in terms of increased runoff and contaminant loads. The user then chooses from a list of BMPs and places them strategically in the watershed, which is followed by the SWMM model run with results to illustrate just how effective the BMP can mitigate the impact of the land use change.

## **CURRICULUM VITAE**

**ANDREW F. OLSHAN**

March 10, 2017

**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  
Chapel Hill, NC 27599-7400  
(919) 966-7424  
andy\_olschan@unc.edu

### **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	Professor Department of Otolaryngology/Head and Neck Surgery School of Medicine University of North Carolina

2006-Present	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/NIEHS Conference: 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	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.

### **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	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
2016-2017	Member, Search Committee, Director, Carolina Population Center

### **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)

### **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 Determinants of contagious mastitis in organic and conventional dairy herds in North Carolina.

Doctoral Dissertations                      (Major Academic Advisor)

- 1994 Patricia G. Schnitzer: Paternal Occupation and the Risk of Birth Defects in Offspring.
- 1996 Susan Lieff: 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.

#### 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  
 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.
1997- 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	Predocutorial 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.

Ward EM, Schulte, PA, Bayard S, Blair, A, Brandt-Rauf P, Butler MA, Dankovic D, Hubbs AF, Jones C, Karstadt M, Kedderis, GL, Melnick R, Redlich CA, Rothman N, Savage RE, Sprinker M, Toraason M, Weston A, (**Olshan AF**, Stewart P, Zahm SH, Contributors). Priorities for Development of Research Methods in Occupational Cancer. Environmental Health Perspectives, 111:1-12, 2003.

Boekelheide K, Darney SP, Daston GP, David RM, Luderer U, **Olshan AF**, Sanderson WT, Willhite CC, Woskie S. NTP-CERHR Expert Panel Report on the reproductive and developmental toxicity of 1-bromopropane. Reproductive Toxicology, 18:157-188, 2004.

Boekelheide K, Darney SP, Daston GP, David RM, Luderer U, **Olshan AF**, Sanderson WT, Willhite CC, Woskie S. NTP Center for the Evaluation of Risks to Human Reproduction Bromopropanes Expert Panel. NTP-CERHR Expert Panel Report on the reproductive and developmental toxicity of 2-bromopropane. Reproductive Toxicology, 18:189-217, 2004.

**Olshan AF**. Epidemiology. In: Neuroblastoma Cheung N-K V. and Cohn SL. (Eds.), Springer-Verlag Berlin, pp. 1-5, 2005.

**Olshan AF**. Laryngeal Cancer. In: Cancer Epidemiology and Prevention, 2<sup>nd</sup> Ed. D. Schottenfeld and JF Fraumeni (Eds.), Oxford University Press, 2006.

Fallon R, **Olshan A**, Saxman S. Chapter 13, Male Genital Tract Cancer. In: Bleyer A, O'Leary M, Barr R, Ries LAG (eds): Cancer Epidemiology in Older Adolescents and Young Adults 15 to 29 Years of Age, including SEER Incidence and Survival: 1975-2000. National Cancer Institute, NIH Pub. No. 06-5767. Bethesda, MD 2006.

O'Leary M, Sheaffer J, Finklestein J, **Olshan A**, Brown J. Female Genital Tract Cancer. In: Bleyer A, O'Leary M, Barr R, Ries LAG (eds): Cancer Epidemiology in Older Adolescents and Young Adults 15 to 29 Years of Age, including SEER Incidence and Survival: 1975-2000. National Cancer Institute, NIH Pub. No. 06-5767. Bethesda, MD 2006.

Luderer U, Collins TF, Daston GP, Fischer LJ, Gray RH, Mirer FE, **Olshan AF**, Setzer RW, Treinen KA, Vermeulen R. NTP-CERHR Expert Panel Report on the reproductive and developmental toxicity of styrene. Birth Defects Res B Dev Reprod Toxicol. 77:110-93, 2006.

**Olshan AF**. Meeting report: the use of newborn blood spots in environmental research: opportunities and challenges. Environ Health Perspect. 115:1767-79, 2007.

## Book Reviews

**Olshan AF**. Review of "Molecular Dosimetry and Human Cancer" by J.D. Groopman and P.L. Skipper. American Journal of Epidemiology, 138:889-891, 1993.

Savitz DA, McMahon M, **Olshan AF**. Review of "Occupational and Environmental Reproductive Hazards: A Guide for Clinicians" by M. Paul. New England Journal of Medicine, 329:1588-1589, 1993.



**Olshan AF.** Review of "Mechanisms of Carcinogenesis: Contributions of Molecular Epidemiology" By P. Buffler, J. Rice, R. Baan, M. Bird, P. Boffetta. *Cancer Causes and Control*, 15:851-852, 2004.

## **Dissertation**

A Case-Control Study of Risk Factors for Wilms' Tumor. 1987. Department of Epidemiology, University of Washington. Chairperson of Supervisory Committee: Janet R. Daling, Ph.D.

## **Refereed Articles** (\* major advisor for students)

1. Vitaliano PP, Prinz P, Vitiello MV, **Olshan AF**, Roehrs TA: On the use of repeated measures designs in psychopharmacology. *Psychopharmacology* 72:247-249, 1981. PMID: 6784142
2. Swindler DR, **Olshan AF**, Sirianni JE: Sex Differences in permanent mandibular tooth development in *Macaca nemestrina*. *Human Biology* 54:45-53, 1982. PMID: 7084931
3. Daniel HJ, Schmidh RT, **Olshan AF**, Swindler DR: Ontogenetic changes in the bony labyrinth of *Macaca mulatta*. *Folia Primatologica* 38:122-129, 1982. PMID: 7095657
4. **Olshan AF**, Siegel AF, Swindler DR: Robust and least squares orthogonal mapping: Methods for the study of cephalofacial form and growth. *American Journal of Physical Anthropology* 59: 131-137, 1982. PMID: 7149014
5. Swindler DR, **Olshan AF**: Molar size sequence in old world monkeys. *Folia Primatologica* 39:201-212, 1982. PMID: 7166286
6. Daling JR, Starzyk P, **Olshan AF**, Weiss NS: Birthweight and the incidence of childhood cancer. *Journal of the National Cancer Institute* 72:1039- 1041, 1984. PMID: 6585581
7. **Olshan AF**, Shy KK, Hickok DE, Luthy DA, Weiss NS, Daling JR: Effect of cesarean birth on neonatal mortality in very low birthweight infants. *Obstetrics and Gynecology* 64:267-70, 1984. PMID: 6738960
8. **Olshan AF**, Breslow NE, Daling JR, Weiss NS, Leviton A: Childhood brain tumors and paternal occupation in the aerospace industry. *Journal of the National Cancer Institute*, 77:17-19, 1986. PMID: 3459911
9. **Olshan AF**: Wilms' tumor, overgrowth and fetal growth factors: A hypothesis. *Cancer Genetics and Cytogenetics* 21:303-307, 1986. PMID: 3006909
10. Koepsell TD, Daling Jr, Weiss NS, Taylor JW, **Olshan AF**, Lyon JL, Swanson GM, Child M: Antigenic stimulation and the occurrence of multiple myeloma. *American Journal of Epidemiology* 126:1051-1062, 1987. PMID: 3687917

11. Shy KK, **Olshan AF**, Hickok DE, Luthy DA: Electronic fetal heart rate monitoring and the occurrence of perinatal mortality in very low birthweight infants. *Birth*, 15:14-18, 1988. PMID: 3348870
12. Breslow N, Norkool P, **Olshan A**, Evans A, D'Angio GJ: Second malignant neoplasms in survivors of Wilms' tumor: A report from the National Wilms' Tumor Study. *Journal of the National Cancer Institute*, 80:592-595, 1988. PMID: 2836600
13. Muhm JM, **Olshan AF**: A program to calculate sample size, power and least detectable relative risk using a programmable calculator. *American Journal of Epidemiology* 129:205-211, 1989. PMID: 2910062
14. **Olshan AF**, Baird PA, Teschke K: Paternal occupational exposures and the risk of Down syndrome. *American Journal of Human Genetics* 44:646-651, 1989. PMCID: PMC1715649
15. **Olshan AF**, Faustman E: Nitrosatable drug exposure during pregnancy and adverse pregnancy outcome. *International Journal of Epidemiology*, 18:891-899, 1989. PMID: 2621027
16. **Olshan AF**, Teschke, K, Baird PA: Birth defects among offspring of firemen. *American Journal of Epidemiology* 131:312-321, 1990. PMID: 2296983
17. **Olshan AF**, Breslow NE, Daling J, Falletta J, Grufferman S, Robison L, Waskerwitz M, Hammond D: Wilms' tumor and paternal occupation. *Cancer Research*, 50:3212-3217, 1990. PMID: 2159375
18. **Olshan AF**, Teschke K, Baird PA: Paternal occupation and congenital anomalies in offspring. *American Journal of Industrial Medicine*, 20:447- 475, 1991. PMID:1785611
19. Blatt J, **Olshan AF**, Gula MJ, Dickman PS, Zaranek B: Second malignancies in very long term survivors of childhood cancer. *American Journal of Medicine*, 93:57-60, 1992. PMID: 1320804
20. Ambinder RF, Browing PJ, Mann RB, Lorenzana I, Levanthal B, Cosenza H, MacMahon E, Medina R, Cardona V, Grufferman S, **Olshan A**, Levin A, Petersen EA, Blattner W, Levine PH. Epstein-Barr Virus and childhood Hodgkin's Disease in Honduras and the United States. *Blood*, 81:462-467, 1992. PMID: 8380725
21. Breslow N, **Olshan A**, Beckwith JB, Green DM. Epidemiology of Wilms tumor. *Medical and Pediatric Oncology*, 21:172-181, 1993. PMID: 7680412
22. **Olshan AF**, Faustman E: Male-Mediated Developmental Toxicity. *Annual Review of Public Health*, 14:159-181, 1993. (Reprinted in *Reproductive Toxicology*, 7:191-202, 1993) PMID: 7686758
23. **Olshan AF**, Breslow NE, Falletta J, Grufferman S, Pendergrass T, Robison L, Waskerwitz M, Woods W, Vietti T, Hammond D: Risk factors for Wilms' tumor: Report from the National Wilms' Tumor Study. *Cancer* 72:938-944, 1993. PMID: 8392906

24. Breslow N, **Olshan A**, Beckwith JB, Moksness J, Feigel P, Green D: Ethnic variation in the incidence, diagnosis, prognosis and followup of children with Wilms Tumor. *Journal of the National Cancer Institute*, 86:49-51, 1994. PMID: 8271283
25. Zhang J, **Olshan A**, Cai WW: Birth defects in relation to threatened abortion. *Epidemiology*, 5:341-344, 1994. PMID: 8038250
26. Savitz DA, Sonnenfeld N, **Olshan A**. Review of epidemiologic studies of paternal exposure and spontaneous abortion. *American Journal of Industrial Medicine*, 25:361-383, 1994. PMID: 8160656
27. Teschke K, Kennedy SM, **Olshan AF**: Effect of different questionnaire formats on reporting of occupational exposures. *American Journal of Industrial Medicine*, 26:327-337, 1994. PMID: 7977406
28. **Olshan AF**, Schnitzer P, Baird PA: Paternal age and the risk of cardiac defects. *Teratology*, 50:80-84, 1994. PMID: 7974258
29. **Olshan AF**, Mattison DR, Zwanenburg TSB: Cyclosporin A: Review of genotoxicity and potential for adverse human reproductive effects. *Mutation Research*, 317:163-173, 1994. PMID: 7511794
30. \*McIntosh GC, **Olshan AF**, Baird PA: Paternal age and the risk of birth defects in offspring. *Epidemiology*, 6:282-288, 1995. PMID: 7619937
31. Carozza SE, **Olshan AF**, Faustman EM, Gula MJ, Kolonel LN, Austin DF, West D, Weiss NS, Swanson M, Lyon JL, Hedley-White T, Gilles FH, Aschenbrener C, Leviton A: Maternal Exposure to N-nitrosatable Drugs as a Risk Factor for Childhood Brain Tumors. *International Journal of Epidemiology*, 24:308-312, 1995. PMID: 7635590
32. \*Schnitzer PG, **Olshan AF**, Savitz DA, Erickson JD: Validity of mother's report of father's occupation in a study of paternal occupation and congenital malformations. *American Journal of Epidemiology*, 141:872-877, 1995. PMID: 7717364
33. \*Schnitzer PG, Teschke K, **Olshan AF**: A classification scheme for aggregating US census occupation and industry codes. *American Journal of Industrial Medicine*, 28:185-191, 1995. PMID: 8585516
34. \*Schnitzer PG, **Olshan AF**, Savitz DA, Erickson JD: Paternal occupation and risk of birth defects in offspring. *Epidemiology*, 6:577-583, 1995. PMID: 8589087
35. **Olshan AF**, Ananth CV, Savitz DA: Intrauterine growth retardation as an endpoint in mutation epidemiology: an evaluation based on paternal age, *Mutation Research*, 344:89-94, 1995. PMID: 7565898
36. Savitz DA, **Olshan AF**: Multiple comparisons and related distractions in the interpretation of epidemiologic data, *American Journal of Epidemiology*, 142:904-908, 1995. PMID: 7572970

37. **Olshan AF.** Lessons learned from human studies of environmental exposure and genetic disease. *Environmental and Molecular Mutagenesis*, 25, Supplement 26:74-80, 1995. PMID: 7789365
38. Savitz DA, **Olshan AF**, Gallagher K: Maternal occupation and pregnancy outcome: results from the 1988 national maternal and infant health survey. *Epidemiology*, 7:269-274, 1996. PMID: 8728440
39. \*McMahon MJ, Luther ER, Bowes WA, **Olshan AF**: Trial of labor versus elective repeat cesarean: a population-based study. *New Engl J Med*, 335:689-695, 1996. PMID: 8703167
40. Yarbrough WG, Aprelikova O, Pei H, **Olshan AF**, Liu ET: Familial tumor syndrome associated with a germline non-functional p16<sup>INK4a</sup> allele. *J Natl Cancer Inst*, 88:1489-1491, 1996. PMID: 8841025
41. **Olshan AF**, Weissler MC, Pei, H, Conway K, Anderson S: Alterations of the p16 gene in head and neck cancer: Frequency and association with p53, PRAD-1, and HPV. *Oncogene*, 14:811-818, 1997. PMID: 9047388
42. **Olshan AF**, Weissler MC, Pei H, Conway K: p53 mutations in head and neck cancer: new data and evaluation of mutational spectra. *Cancer Epidemiology, Biomarkers & Prevention*, 6:499-504, 1997. PMID: 9232336
43. McMahon MJ, Li R, Schenck AP, **Olshan AF**, Royce RA: Previous cesarean birth as a risk factor for placenta previa: A population-based case-control study. *Journal of Reproductive Medicine*, 42:409-412, 1997. PMID: 9252931
44. Blatt J, **Olshan A**, Lee PA, Ross JL: Neuroblastoma and related tumors in Turner's syndrome. *Journal of Pediatrics*, 131:666-670, 1997. PMID: 9403643
45. \*Daniels JL, **Olshan AF**, and Savitz DA: Pesticides and childhood cancer: A review. *Environmental Health Perspectives*, 105:1068-1077, 1997. PMID: 9349828
46. \*McKaig R, Baric R, **Olshan AF**: HPV and Head and Neck Cancer: A Review. *Head & Neck*, 20:250-265, 1998. PMID: 9570632
47. Shults R, Arndt V, Martin C, **Olshan A**, Royce R: Effects of short interpregnancy intervals on intrauterine growth retardation and preterm birth. *Epidemiology* 10:250-254, 1999. PMID: 10230833
48. \*Lief S, **Olshan AF**, Savitz DA, Werler M: Selection bias and the use of controls with malformations in case-control studies of birth defects. *Epidemiology* 10:238-241, 1999. PMID: 10230831
49. \*Lief S, **Olshan AF**, Strauss R, Werler M: Maternal cigarette smoking during pregnancy and risk of oral clefts in newborns. *American Journal of Epidemiology*, 150:683-694, 1999. PMID: 10512422

50. **Olshan AF**, Smith J, Cook MN, Grufferman S, Pollock BH, Stram DO, Seeger RC, Look AT, Cohn SL, Castleberry RP, Bondy ML: Hormone and fertility drug use and the risk of neuroblastoma: A report from the Children's Cancer Group and the Pediatric Oncology Group. *American Journal of Epidemiology*, 150:930-938, 1999. PMID: 10547138
51. **Olshan AF**, DeRoos AJ, Teschke K, Neglia JP, Stram DO, Pollock BH, Castleberry RP: Neuroblastoma and parental occupation. *Cancer Causes and Control*, 10:539-549, 1999. PMID: 10616823
52. \*Arbes SJ, Jr, **Olshan AF**, Caplan DJ, Schoenbach VJ, Slade GD, Symons MJ. Factors contributing to the poorer survival of black Americans diagnosed with oral cancer. *Cancer Causes and Control* 10:513-523, 1999. PMID: 10616821
53. Li R, Boerwinkle E, **Olshan AF**, Chambless LE, Pankow JS, Tyroler HA, Bell DA, Heiss G. Glutathione S-transferase genotypes as susceptibility factors in smoking-related coronary heart disease. *Atherosclerosis*, 149:451-462, 2000. PMID: 10729397
54. **Olshan AF**, Weissler MC, Watson MA, Bell DA: GSTM1, GSTT1, GSTP1, CYP1A1, and NAT1 polymorphisms, tobacco use and the risk of head and neck cancer. *Cancer Epidemiology, Biomarkers & Prevention*, 9:185-191, 2000. PMID: 10698480
55. Carozza SE, Wrensch M, Miike R, Newman B, **Olshan A**, Savitz D, Yost M, Lee M. Occupation and adult glioma. *American Journal of Epidemiology*, 152:838-846, 2000. PMID: 11085395
56. Teschke K, Smith J, **Olshan AF**: Evidence of recall bias in volunteered vs. prompted responses about occupational exposures. *American Journal of Industrial Medicine*, 38:385-388, 2000. PMID: 10982978
57. \*Yang Q, **Olshan AF**, Bondy ML, Shah NR, Pollock BH, Seeger RC, Look AT, Cohn SL: Parental smoking and alcohol consumption and risk of neuroblastoma. *Cancer Epidemiology, Biomarkers & Prevention*, 9:967-972, 2000. PMID: 11008916
58. \*Daniels JL, **Olshan AF**, Teschke K, Hertz-Picciotto I, Savitz DA, Blatt J, Bondy ML, Neglia JP, Pollock BH, Cohn SL, Look AT, Seeger RC, Castleberry RP. Residential pesticide exposure and the risk of neuroblastoma. *Epidemiology*, 12:20-27, 2001. PMID: 11138814
59. **Olshan AF**, Weissler MC, Watson MA, Bell DA: Risk of head and neck cancer and the alcohol dehydrogenase 3 genotype. *Carcinogenesis*, 22:57-61, 2001. PMID: 11159741
60. Gurney JG, Smith MA, **Olshan AF**, Hecht SS, Kasum CM: Clues to the etiology of childhood brain cancer: n-nitroso compounds, polyomaviruses and other factors of interest. *Cancer Investigation*, 19:630-640, 2001. PMID: 11486706
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## Editorials

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Ross JA and **Olshan AF**. Pediatric Cancer in the United States: The Children's Oncology Group Epidemiology Research Program. Cancer Epidemiology Prevention & Biomarkers, 13:1552-4, 2004.

**Olshan AF**. Are "Further Studies" Really Needed? If So, Which Ones?. Epidemiology, 4:544-5, 2008.

**Olshan AF**, Hobbs CA, Shaw GM. Discovery of Genetic Susceptibility Factors for Human Birth Defects: An Opportunity for a National Agenda. Am J Med Genet A. 155(8):1794-7. Epub 2011 Jul 7, 2011.

Evans JP, Berg JS, **Olshan AF**, Magnuson T, Rimer BK. We screen newborns, don't we?: realizing the promise of public health genomics. Genet Med. 15(5):332-4, 2013.

## Other Publications

**Olshan AF**, Ambrosone CB, Barnholtz-Sloan JS, Berwick M, Palmer J, Thomas NE. Robert C. Millikan: in memoriam. Cancer Epidemiol Biomarkers Prev.22(1):176-7, 2013.

Lash TL, **Olshan AF**. EPIDEMIOLOGY Announces the "Validation Study" Submission Category. Epidemiology. 2016 Sep;27(5):613-4. doi: 10.1097/EDE.0000000000000532. PubMed PMID: 27388372.

## Letters

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## Published Abstracts (until 2007)

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**Olshan AF:** A multivariate morphometric study of *Meganthropus*. *American Journal of Physical Anthropology* 44:196-197, 1976.

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**Olshan AF,** Campbell MA: Orthogonal mapping: A method for analysis of malformations in cultured embryos. *Teratology* 25:65A, 1982.

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Grufferman S, **Olshan AF,** Gula MJ, Maurer HM: The role of active immunization in the etiology of childhood cancer: protective or simply proscribed ? *American Journal of Epidemiology*, 132:758, 1990.

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**Olshan AF:** Male-mediated developmental toxicity: Epidemiologic Evidence. *The Toxicologist*, 13:28, 1993.

**Olshan AF**, Schnitzer PG, Baird PA: Paternal age and the risk of congenital cardiac defects. *Teratology*, 47:431, 1993.

Schnitzer PG, **Olshan AF**, Erickson JD: Paternal occupation and the risk of birth defects in offspring. *Teratology*, 49:377, 1994.

**Olshan AF**, Weissler MC, Pei H, Conway K: p53 mutations in head and neck cancer: new data and evaluation of the mutational spectrum. *Head & Neck*, 16:516, 1994.

**Olshan A**, Watson MA, Smith J, Weissler M, Bell DA: Association of N-acetyltransferase 1 (NAT1) genotype and smoking in head and neck cancer. *Proc Am Assoc Cancer Res*, 38:2220, 1997.

Daniels JD, **Olshan AF**, Teschke K, et al., Parental residential pesticide exposure and the risk of neuroblastoma. *Am J Epidemiol* 147:S44, 1998.

De Roos AJ, **Olshan AF**, Teschke K, et al., Parental occupation and the risk of neuroblastoma in offspring: a case-control study. *Am J Epidemiol* 147:S86, 1998.

Watson MA, **Olshan A**, Weissler MC, Bell DA: XRCC1 polymorphisms (Arg194Trp and ARG399Gln) and risk for head and neck cancer. *Proc Am Assoc Cancer Res*, 41:557, 2000.

Schroeder JC, **Olshan AF**, Baric R, Dent G, Weinberg CR, Yount B, Cerhan J, Mandel J, Lynch CF, Shuman L, Tolbert P, Millikan R, Rothman N, Cantor K, A Blair A case-control study of agricultural and non-occupational risk factors for t(14;18) non-Hodgkin's lymphoma. *Am J Epidemiol* 151:S29, 2000.

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.

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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.

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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. 13<sup>th</sup> 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.

#### **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.