



## Alice S Whittemore

Professor Emerita, Epidemiology and Population Health

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### Bio

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### LINKS

- My Personal Web Site: <https://web.stanford.edu/~alicesw/>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Cancers of the prostate, breast and ovary account for a major proportion of new cancer cases and cancer deaths in the U.S. each year. We conduct population-based epidemiologic field studies aimed at understanding the etiologies of these cancers. The primary focus concerns the joint effects of genetic predisposition and modifiable lifestyle characteristics on cancer risk. We currently are analyzing data from a large case-control study of prostate cancer in black, white and Asian-American men. We are attempting to delineate the effects on prostate cancer risk of diet, body size, physical activity and family history of prostate cancer. We have established population-based registries of families with multiple cases of prostate cancer, and families with multiple cases of breast and/or ovarian cancer. We are using these registries for linkage analysis in search of cancer-susceptibility genes, for the study of gene-environment interactions, and for estimates of the proportions of cancers attributable to specific genes. Our recent research focus has been on developing improved statistical methods for the design and conduct of studies involving hereditary predisposition and modifiable lifestyle characteristics in the etiologies of site-specific cancers.

### Publications

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#### PUBLICATIONS

- **p53 and ovarian carcinoma survival: an Ovarian Tumor Tissue Analysis consortium study.** *The journal of pathology. Clinical research*  
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- **Lifetime ovulatory years and risk of epithelial ovarian cancer: a multinational pooled analysis.** *Journal of the National Cancer Institute*  
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- **MiXcan: a framework for cell-type-aware transcriptome-wide association studies with an application to breast cancer.** *Nature communications*  
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- **Copy Number Variants Are Ovarian Cancer Risk Alleles at Known and Novel Risk Loci.** *Journal of the National Cancer Institute*  
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- **Correction: Polygenic risk modeling for prediction of epithelial ovarian cancer risk.** *European journal of human genetics : EJHG*  
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- **Outdoor ambient air pollution and breast cancer survival among California participants of the Multiethnic Cohort Study.** *Environment international*  
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- **Polygenic risk modeling for prediction of epithelial ovarian cancer risk.** *European journal of human genetics : EJHG*  
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- **Identification of 31 loci for mammographic density phenotypes and their associations with breast cancer risk.** *Nature communications*  
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2020; 11 (1): 5116
- **Reply to Comment on: Racial, Ethnic, and Socioeconomic Disparities in Retinoblastoma Enucleation: A Population-Based Study, SEER 18 2000-2014** *AMERICAN JOURNAL OF OPHTHALMOLOGY*  
Rajeshuni, N., Whittemore, A. S., Ludwig, C. A., Mruthyunjaya, P., Moshfeghi, D. M.  
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- **Alcohol and tobacco use in relation to mammographic density in 23,456 women.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*  
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- **Expanding our understanding of ovarian cancer risk: the role of incomplete pregnancies.** *Journal of the National Cancer Institute*  
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- **A comprehensive gene-environment interaction analysis in Ovarian Cancer using genome-wide significant common variants** *INTERNATIONAL JOURNAL OF CANCER*  
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- **Functional Analysis and Fine Mapping of the 9p22.2 Ovarian Cancer Susceptibility Locus** *CANCER RESEARCH*  
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