

# Stanford

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## Alice S Whittemore

Professor of Health Research and Policy (Epidemiology) and of Biomedical Data Science, Emerita

Health Research & Policy

### CONTACT INFORMATION

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### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Health Research & Policy

#### LINKS

- My Personal Web Site: <http://www.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.

### Teaching

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#### COURSES

2016-17

- Epidemiology Research Seminar: HRP 236 (Spr)

#### STANFORD ADVISEES

Master's Program Advisor

Cecil Benitez

## Publications

### PUBLICATIONS

- **Reproductive Factors and Mammographic Density: Associations Among 24,840 Women and Comparison of Studies Using Digitized Film-Screen Mammography and Full-Field Digital Mammography** *AMERICAN JOURNAL OF EPIDEMIOLOGY*  
Alexeeff, S. E., Odo, N. U., McBride, R., McGuire, V., Achacoso, N., Rothstein, J. H., Lipson, J. A., Liang, R. Y., Acton, L., Yaffe, M. J., Whittemore, A. S., Rubin, D. L., Sieh, et al  
2019; 188 (6): 1144–54
- **Data-adaptive multi-locus association testing in subjects with arbitrary genealogical relationships** *STATISTICAL APPLICATIONS IN GENETICS AND MOLECULAR BIOLOGY*  
Gong, G., Wang, W., Hsieh, C., Van Den Berg, D. J., Haiman, C., Oakley-Girvan, I., Whittemore, A. S.  
2019; 18 (3)
- **Evaluation of vitamin D biosynthesis and pathway target genes reveals UGT2A1/2 and EGFR polymorphisms associated with epithelial ovarian cancer in African American Women** *CANCER MEDICINE*  
Grant, D. J., Manichaikul, A., Alberg, A. J., Bandera, E., Barnholtz-Sloan, J., Bondy, M., Cote, M. L., Funkhouser, E., Moorman, P. G., Peres, L. C., Peters, E. S., Schwartz, A. G., Terry, et al  
2019; 8 (5): 2503–13
- **Data-adaptive multi-locus association testing in subjects with arbitrary genealogical relationships.** *Statistical applications in genetics and molecular biology*  
Gong, G., Wang, W., Hsieh, C., Van Den Berg, D. J., Haiman, C., Oakley-Girvan, I., Whittemore, A. S.  
2019
- **Enrollment and biospecimen collection in a multiethnic family cohort: the Northern California site of the Breast Cancer Family Registry** *CANCER CAUSES & CONTROL*  
John, E. M., Sangaramoorthy, M., Koo, J., Whittemore, A. S., West, D. W.  
2019; 30 (4): 395–408
- **Association between ambient air pollution and breast cancer risk: The Multiethnic Cohort Study.** *International journal of cancer*  
Cheng, I., Tseng, C., Wu, J., Yang, J., Conroy, S. M., Shariff-Marco, S., Li, L., Hertz, A., Gomez, S. L., Le Marchand, L., Whittemore, A., Stram, D. O., Ritz, et al  
2019
- **Reproductive Factors and Mammographic Density: Associations Among 24,840 Women and Comparison of Studies Using Digitized Film-Screen Mammography and Full-Field Digital Mammography.** *American journal of epidemiology*  
Alexeeff, S. E., Odo, N. U., McBride, R., McGuire, V., Achacoso, N., Rothstein, J. H., Lipson, J. A., Liang, R. Y., Acton, L., Yaffe, M. J., Whittemore, A. S., Rubin, D. L., Sieh, et al  
2019
- **Enrollment and biospecimen collection in a multiethnic family cohort: the Northern California site of the Breast Cancer Family Registry.** *Cancer causes & control : CCC*  
John, E. M., Sangaramoorthy, M., Koo, J., Whittemore, A. S., West, D. W.  
2019
- **Genome-wide association study of germline variants and breast cancer-specific mortality.** *British journal of cancer*  
Escala-Garcia, M., Guo, Q., Dork, T., Canisius, S., Keeman, R., Dennis, J., Beesley, J., Lecarpentier, J., Bolla, M. K., Wang, Q., Abraham, J., Andrulis, I. L., Anton-Culver, et al  
2019
- **10-year performance of four models of breast cancer risk: a validation study.** *The Lancet. Oncology*  
Terry, M. B., Liao, Y., Whittemore, A. S., Leoce, N., Buchsbaum, R., Zeinomar, N., Dite, G. S., Chung, W. K., Knight, J. A., Southey, M. C., Milne, R. L., Goldgar, D., Giles, et al  
2019
- **Functional Analysis and Fine Mapping of the 9p22.2 Ovarian Cancer Susceptibility Locus** *CANCER RESEARCH*  
Buckley, M. A., Woods, N. T., Tyrer, J. P., Mendoza-Fandino, G., Lawrenson, K., Hazelett, D. J., Najafabadi, H. S., Gjyshi, A., Carvalho, R. S., Lyra, P. C., Coetzee, S. G., Shen, H. C., Yang, et al  
2019; 79 (3): 467–81

- **Shared heritability and functional enrichment across six solid cancers.** *Nature communications*  
Jiang, X., Finucane, H. K., Schumacher, F. R., Schmit, S. L., Tyrer, J. P., Han, Y., Michailidou, K., Lesueur, C., Kuchenbaecker, K. B., Dennis, J., Conti, D. V., Casey, G., Gaudet, et al  
2019; 10 (1): 431
- **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.  
2019
- **Identification of novel epithelial ovarian cancer loci in Women of African Ancestry.** *International journal of cancer*  
Manichaikul, A., Peres, L. C., Wang, X. Q., Barnard, M. E., Chyn, D., Sheng, X., Du, Z., Tyrer, J., Dennis, J., Schwartz, A. G., Cote, M. L., Peters, E., Moorman, et al  
2019
- **Publisher Correction: Shared heritability and functional enrichment across six solid cancers.** *Nature communications*  
Jiang, X., Finucane, H. K., Schumacher, F. R., Schmit, S. L., Tyrer, J. P., Han, Y., Michailidou, K., Lesueur, C., Kuchenbaecker, K. B., Dennis, J., Conti, D. V., Casey, G., Gaudet, et al  
2019; 10 (1): 4386
- **Evaluation of vitamin D biosynthesis and pathway target genes reveals UGT2A1/2 and EGFR polymorphisms associated with epithelial ovarian cancer in African American Women.** *Cancer medicine*  
Grant, D. J., Manichaikul, A., Alberg, A. J., Bandera, E. V., Barnholtz-Sloan, J., Bondy, M., Cote, M. L., Funkhouser, E., Moorman, P. G., Peres, L. C., Peters, E. S., Schwartz, A. G., Terry, et al  
2019
- **Race/ethnicity and accuracy of self-reported female first-degree family history of breast and other cancers in the Northern California Breast Cancer Family Registry.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*  
John, E. M., Canchola, A. J., Sanagaramoorthy, M., Koo, J., Whittemore, A. S., West, D. W.  
2019
- **Polygenic Risk Scores for Prediction of Breast Cancer and Breast Cancer Subtypes.** *American journal of human genetics*  
Mavaddat, N., Michailidou, K., Dennis, J., Lush, M., Fachal, L., Lee, A., Tyrer, J. P., Chen, T., Wang, Q., Bolla, M. K., Yang, X., Adank, M. A., Ahearn, et al  
2018
- **A Prediction Tool to Facilitate Risk-Stratified Screening for Squamous Cell Skin Cancer.** *The Journal of investigative dermatology*  
Wang, W., Jorgenson, E., Ioannidis, N. M., Asgari, M. M., Whittemore, A. S.  
2018; 138 (12): 2589–94
- **A Comprehensive Gene-Environment Interaction Analysis in Ovarian Cancer using Genome-wide Significant Common Variants.** *International journal of cancer*  
Kim, S., Wang, M., Tyrer, J. P., Jensen, A., Wiensch, A., Liu, G., Lee, A. W., Ness, R. B., Salvatore, M., Tworoger, S. S., Whittemore, A. S., Anton-Culver, H., Sieh, et al  
2018
- **Gene expression imputation identifies candidate genes and susceptibility loci associated with cutaneous squamous cell carcinoma.** *Nature communications*  
Ioannidis, N. M., Wang, W., Furlotte, N. A., Hinds, D. A., 23andMe Research Team, Bustamante, C. D., Jorgenson, E., Asgari, M. M., Whittemore, A. S., Agee, M., Alipanahi, B., Auton, A., Bell, R. K., et al  
2018; 9 (1): 4264
- **Association of p16 expression with prognosis varies across ovarian carcinoma histotypes: an Ovarian Tumor Tissue Analysis consortium study** *JOURNAL OF PATHOLOGY CLINICAL RESEARCH*  
Rambau, P. F., Vierkant, R. A., Intermaggio, M. P., Kelemen, L. E., Goodman, M. T., Herpel, E., Pharoah, P. D., Kommos, S., Jimenez-Linan, M., Karlan, B. Y., Gentry-Maharaj, A., Menon, U., Polo, et al  
2018; 4 (4): 250–61
- **rs495139 in the TYMS-ENOSF1 Region and Risk of Ovarian Carcinoma of Mucinous Histology** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*  
Kelemen, L. E., Earp, M., Fridley, B. L., Chenevix-Trench, G., Fasching, P. A., Beckmann, M. W., Ekici, A. B., Hein, A., Lambrechts, D., Lambrechts, S., Van Nieuwenhuysen, E., Vergote, I., Rossing, et al  
2018; 19 (9)

- **Germline Variation and Breast Cancer Incidence: A Gene-Based Association Study and Whole-Genome Prediction of Early-Onset Breast Cancer** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*  
Bryan, M., Argos, M., Andrulis, I. L., Hopper, J. L., Chang-Claude, J., Malone, K. E., John, E. M., Gammon, M. D., Daly, M. B., Terry, M., Buys, S. S., Huo, D., Olopade, et al  
2018; 27 (9): 1057–64
- **Variants in genes encoding small GTPases and association with epithelial ovarian cancer susceptibility** *PLOS ONE*  
Earp, M., Tyrer, J. P., Winham, S. J., Lin, H., Chornokur, G., Dennis, J., Aben, K. H., Anton-Culver, H., Antonenkova, N., Bandera, E. V., Bean, Y. T., Beckmann, M. W., Bjorge, et al  
2018; 13 (7): e0197561
- **A transcriptome-wide association study of 229,000 women identifies new candidate susceptibility genes for breast cancer** *NATURE GENETICS*  
Wu, L., Shi, W., Long, J., Guo, X., Michailidou, K., Beesley, J., Bolla, M. K., Shu, X., Lu, Y., Cai, Q., Al-Ejeh, F., Rozali, E., Wang, et al  
2018; 50 (7): 968+
- **Genetic variants in the HLA class II region associated with risk of cutaneous squamous cell carcinoma.** *Cancer immunology, immunotherapy : CII*  
Wang, W., Ollila, H. M., Whittemore, A. S., Demehri, S., Ioannidis, N. M., Jorgenson, E., Mignot, E., Asgari, M. M.  
2018
- **Metabolomic profiles in breast cancer: a pilot case-control study in the breast cancer family registry** *BMC CANCER*  
Dougan, M. M., Li, Y., Chu, L. W., Haile, R. W., Whittemore, A. S., Han, S. S., Moore, S. C., Sampson, J. N., Andrulis, I. L., John, E. M., Hsing, A. W.  
2018; 18: 532
- **Genetic susceptibility markers for a breast-colorectal cancer phenotype: Exploratory results from genome-wide association studies** *PLOS ONE*  
Pande, M., Joon, A., Brewster, A. M., Chen, W. V., Hoppers, J. L., Eng, C., Shete, S., Casey, G., Schumacher, F., Lin, Y., Harrison, T. A., White, E., Ahsan, et al  
2018; 13 (4): e0196245
- **Racial/ethnic differences in the epidemiology of ovarian cancer: a pooled analysis of 12 case-control studies** *INTERNATIONAL JOURNAL OF EPIDEMIOLOGY*  
Peres, L. C., Risch, H., Terry, K. L., Webb, P. M., Goodman, M. T., Wu, A. H., Alberg, A. J., Bandera, E. V., Barnholtz-Sloan, J., Bondy, M. L., Cote, M. L., Funkhouser, E., Moorman, et al  
2018; 47 (2): 460–72
- **Adult height is associated with increased risk of ovarian cancer: a Mendelian randomisation study** *BRITISH JOURNAL OF CANCER*  
Dixon-Suen, S. C., Nagle, C. M., Thrift, A. P., Pharoah, P. P., Ewing, A., Pearce, C., Zheng, W., Chenevix-Trench, G., Fasching, P. A., Beckmann, M. W., Lambrechts, D., Vergote, I., Lambrechts, et al  
2018; 118 (8): 1123–29
- **Susceptibility Loci-Associated Cutaneous Squamous Cell Carcinoma Invasiveness** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Wang, W., Jorgenson, E., Whittemore, A. S., Asgari, M. M.  
2018; 138 (3): 557–61
- **MyD88 and TLR4 Expression in Epithelial Ovarian Cancer** *MAYO CLINIC PROCEEDINGS*  
Block, M. S., Vierkant, R. A., Rambau, P. F., Winham, S. J., Wagner, P., Traficante, N., Toloczko, A., Tiezzi, D. G., Taran, F., Sinn, P., Sieh, W., Sharma, R., Rothstein, et al  
2018; 93 (3): 307–20
- **Persistent Postoperative Opioid Use in Older Head and Neck Cancer Patients.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Saraswathula, A., Chen, M. M., Mudumbai, S. C., Whittemore, A. S., Divi, V.  
2018: 194599818778276
- **MyD88 and TLR4 Expression in Epithelial Ovarian Cancer.** *Mayo Clinic proceedings*  
Block, M. S., Vierkant, R. A., Rambau, P. F., Winham, S. J., Wagner, P., Traficante, N., Toloczko, A., Tiezzi, D. G., Taran, F. A., Sinn, P., Sieh, W., Sharma, R., Rothstein, et al  
2018; 93 (3): 307–20
- **Circulating sex hormones in relation to anthropometric, sociodemographic and behavioural factors in an international dataset of 12,300 men** *PLOS ONE*  
Watts, E. L., Appleby, P. N., Albanese, D., Black, A., Chan, J. M., Chen, C., Cirillo, P. M., Cohn, B. A., Cook, M. B., Donovan, J. L., Ferrucci, L., Garland, C. F., Giles, et al  
2017; 12 (12): e0187741

- **Identification of ten variants associated with risk of estrogen-receptor-negative breast cancer** *NATURE GENETICS*  
Milne, R. L., Kuchenbaecker, K. B., Michailidou, K., Beesley, J., Kar, S., Lindstrom, S., Hui, S., Lemacon, A., Soucy, P., Dennis, J., Jiang, X., Rostamianfar, A., Finucane, et al  
2017; 49 (12): 1767–78
- **Dose-Response Association of CD8(+) Tumor-Infiltrating Lymphocytes and Survival Time in High-Grade Serous Ovarian Cancer** *JAMA ONCOLOGY*  
Goode, E. L., Block, M. S., Kalli, K. R., Vierkant, R. A., Chen, W., Fogarty, Z. C., Gentry-Maharaj, A., Toloczko, A., Hein, A., Bouligny, A. L., Jensen, A., Osorio, A., Hartkopf, et al  
2017; 3 (12): e173290
- **Association analysis identifies 65 new breast cancer risk loci** *NATURE*  
Michailidou, K., Lindstrom, S., Dennis, J., Beesley, J., Hui, S., Kar, S., Lemacon, A., Soucy, P., Glubb, D., Rostamianfar, A., Bolla, M. K., Wang, Q., Tyrer, et al  
2017; 551 (7678): 92–+
- **Age at Menarche and Late Adolescent Adiposity Associated with Mammographic Density on Processed Digital Mammograms in 24,840 Women** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*  
Alexeeff, S. E., Odo, N. U., Lipson, J. A., Achacosol, N., Rothstein, J. H., Yaffe, M. J., Liang, R. Y., Acton, L., McGuire, V., Whittemore, A. S., Rubin, D. L., Sieh, W., Habel, et al  
2017; 26 (9): 1450–58
- **Pubertal development in girls by breast cancer family history: the LEGACY girls cohort** *BREAST CANCER RESEARCH*  
Terry, M., Keegan, T. M., Houghton, L. C., Goldberg, M., Andrulis, I. L., Daly, M. B., Buys, S. S., Wei, Y., Whittemore, A. S., Protacio, A., Bradbury, A. R., Chung, W. K., Knight, et al  
2017; 19: 69
- **Identification of 12 new susceptibility loci for different histotypes of epithelial ovarian cancer** *NATURE GENETICS*  
Phelan, C. M., Kuchenbaecker, K. B., Tyrer, J. P., Kar, S. P., Lawrenson, K., Winham, S. J., Dennis, J., Pirie, A., Riggan, M. J., Chornokur, G., Earp, M. A., Lyra, P. C., Lee, et al  
2017; 49 (5): 680–?
- **Genetic modifiers of CHEK2\*1100delC-associated breast cancer risk** *GENETICS IN MEDICINE*  
Muranen, T. A., Greco, D., Blomqvist, C., Aittomaki, K., Khan, S., Hogervorst, F., Verhoef, S., Pharoah, P. D., Dunning, A. M., Shah, M., Luben, R., Bojesen, S. E., Nordestgaard, et al  
2017; 19 (5): 599-603
- **No Evidence That Genetic Variation in the Myeloid-Derived Suppressor Cell Pathway Influences Ovarian Cancer Survival.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*  
Sucheston-Campbell, L. E., Cannioto, R., Clay, A. I., Etter, J. L., Eng, K. H., Liu, S., Battaglia, S., Hu, Q., Szender, J. B., Minlikeeva, A., Joseph, J. M., Mayor, P., Abrams, et al  
2017; 26 (3): 420-424
- **gsSKAT: Rapid gene set analysis and multiple testing correction for rare-variant association studies using weighted linear kernels.** *Genetic epidemiology*  
Larson, N. B., McDonnell, S., Cannon Albright, L., Teerlink, C., Stanford, J., Ostrander, E. A., Isaacs, W. B., Xu, J., Cooney, K. A., Lange, E., Schleutker, J., Carpten, J. D., Powell, et al  
2017
- **Predicting Prostate Cancer Recurrence After Radical Prostatectomy** *PROSTATE*  
Jeffers, A., Sochat, V., Kattan, M. W., Yu, C., Melcon, E., Yamoah, K., Rebbeck, T. R., Whittemore, A. S.  
2017; 77 (3): 291-298
- **Enrichment of putative PAX8 target genes at serous epithelial ovarian cancer susceptibility loci.** *British journal of cancer*  
Kar, S. P., Adler, E., Tyrer, J., Hazelett, D., Anton-Culver, H., Bandera, E. V., Beckmann, M. W., Berchuck, A., Bogdanova, N., Brinton, L., Butzow, R., Campbell, I., Carty, et al  
2017; 116 (4): 524-535
- **Cutaneous squamous cell cancer (cSCC) risk and the human leukocyte antigen (HLA) system.** *Human immunology*  
Yesantharao, P., Wang, W., Ioannidis, N. M., Demehri, S., Whittemore, A. S., Asgari, M. M.  
2017
- **Breast Cancer Risk and Mammographic Density Assessed with Semiautomated and Fully Automated Methods and BI-RADS.** *Radiology*  
Jeffers, A. M., Sieh, W., Lipson, J. A., Rothstein, J. H., McGuire, V., Whittemore, A. S., Rubin, D. L.

2017; 282 (2): 348-355

- **Cigarette smoking is associated with adverse survival among women with ovarian cancer: Results from a pooled analysis of 19 studies.** *International journal of cancer*  
Praestegaard, C., Jensen, A., Jensen, S. M., Nielsen, T. S., Webb, P. M., Nagle, C. M., deFazio, A., Høgdall, E., Rossing, M. A., Doherty, J. A., Wicklund, K. G., Goodman, M. T., Modugno, et al  
2017
- **ERRATUM.** *The Prostate*  
Whittemore, A. S.  
2017; 77 (8): 934
- **Germline whole exome sequencing and large-scale replication identifies FANCM as a likely high grade serous ovarian cancer susceptibility gene.** *Oncotarget*  
Dicks, E., Song, H., Ramus, S. J., Oudenhove, E. V., Tyrer, J. P., Intermaggio, M. P., Kar, S., Harrington, P., Bowtell, D. D., Group, A. S., Cicek, M. S., Cunningham, J. M., Fridley, et al  
2017; 8 (31): 50930-40
- **Evaluating disease prediction models using a cohort whose covariate distribution differs from that of the target population.** *Statistical methods in medical research*  
Powers, S., McGuire, V., Bernstein, L., Canchola, A. J., Whittemore, A. S.  
2017: 962280217723945
- **FIRE: functional inference of genetic variants that regulate gene expression.** *Bioinformatics (Oxford, England)*  
Ioannidis, N. M., Davis, J. R., DeGorter, M. K., Larson, N. B., McDonnell, S. K., French, A. J., Battle, A. J., Hastie, T. J., Thibodeau, S. N., Montgomery, S. B., Bustamante, C. D., Sieh, W., Whittemore, et al  
2017; 33 (24): 3895-3901
- **Does radiotherapy still have a role in unresected biliary tract cancer?** *Cancer medicine*  
Pollom, E. L., Alagappan, M., Park, L. S., Whittemore, A. S., Koong, A. C., Chang, D. T.  
2017; 6 (1): 129-141
- **Inherited variants affecting RNA editing may contribute to ovarian cancer susceptibility: results from a large-scale collaboration** *ONCOTARGET*  
Permeth, J. B., Reid, B., Earp, M., Chen, Y. A., Monteiro, A. N., Chen, Z., Chenevix-Trench, G., Fasching, P. A., Beckmann, M. W., Lambrechts, D., Vanderstichele, A., Van Nieuwenhuysse, E., Vergote, et al  
2016; 7 (45): 72381-72394
- **Predicting Prostate Cancer Recurrence After Radical Prostatectomy.** *Prostate*  
Jeffers, A., Sochat, V., Kattan, M. W., Yu, C., Melcon, E., Yamoah, K., Rebbeck, T. R., Whittemore, A. S.  
2016
- **Risk Prediction for Epithelial Ovarian Cancer in 11 United States-Based Case-Control Studies: Incorporation of Epidemiologic Risk Factors and 17 Confirmed Genetic Loci** *AMERICAN JOURNAL OF EPIDEMIOLOGY*  
Clyde, M. A., Weber, R. P., Iversen, E. S., Poole, E. M., Doherty, J. A., Goodman, M. T., Ness, R. B., Risch, H. A., Rossing, M. A., Terry, K. L., Wentzensen, N., Whittemore, A. S., Anton-Culver, et al  
2016; 184 (8): 555-569
- **Risk Prediction for Epithelial Ovarian Cancer in 11 United States-Based Case-Control Studies: Incorporation of Epidemiologic Risk Factors and 17 Confirmed Genetic Loci.** *American journal of epidemiology*  
Clyde, M. A., Palmieri Weber, R., Iversen, E. S., Poole, E. M., Doherty, J. A., Goodman, M. T., Ness, R. B., Risch, H. A., Rossing, M. A., Terry, K. L., Wentzensen, N., Whittemore, A. S., Anton-Culver, et al  
2016; 184 (8): 579-589
- **REVEL: An Ensemble Method for Predicting the Pathogenicity of Rare Missense Variants** *AMERICAN JOURNAL OF HUMAN GENETICS*  
Ioannidis, N. M., Rothstein, J. H., Pejaver, V., Middha, S., McDonnell, S. K., Baheti, S., Musolf, A., Li, Q., Holzinger, E., Karyadi, D., Cannon-Albright, L. A., Teerlink, C. C., Stanford, et al  
2016; 99 (4): 877-885
- **Genetic modifiers of CHEK2\*1100delC-associated breast cancer risk.** *Genetics in medicine*  
Muranen, T. A., Greco, D., Blomqvist, C., Aittomäki, K., Khan, S., Hogervorst, F., Verhoef, S., Pharoah, P. D., Dunning, A. M., Shah, M., Luben, R., Bojesen, S. E., Nordestgaard, et al  
2016

- **Geographic variation in Medicare treatment costs and outcomes for advanced head and neck cancer** *ORAL ONCOLOGY*  
Divi, V., Tao, L., Whittemore, A., Oakley-Girvan, I.  
2016; 61: 83-88
- **Association of vitamin D levels and risk of ovarian cancer: a Mendelian randomization study** *INTERNATIONAL JOURNAL OF EPIDEMIOLOGY*  
Ong, J., Cuellar-Partida, G., Lu, Y., Fasching, P. A., Hein, A., Burghaus, S., Beckmann, M. W., Lambrechts, D., van Nieuwenhuysen, E., Vergote, I., Vanderstichele, A., Doherty, J. A., Rossing, et al  
2016; 45 (5): 1619-1630
- **PALB2, CHEK2 and ATM rare variants and cancer risk: data from COGS.** *Journal of medical genetics*  
Southey, M. C., Goldgar, D. E., Winqvist, R., Pylkäs, K., Couch, F., Tischkowitz, M., Foulkes, W. D., Dennis, J., Michailidou, K., Van Rensburg, E. J., Heikkinen, T., Nevanlinna, H., Hopper, et al  
2016
- **Association of vitamin D levels and risk of ovarian cancer: a Mendelian randomization study.** *International journal of epidemiology*  
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