

# Stanford

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## Esther M. John

Professor (Research) of Epidemiology and Population Health and of Medicine (Oncology)

### CONTACT INFORMATION

- **Administrative Contact**

Sanavy Lou

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### Bio

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#### BIO

Esther M. John, PhD, MSPH is Professor of Epidemiology & Population Health and of Medicine (Division of Oncology) and co-leader of the Population Sciences Program of the Stanford Cancer Institute. Dr. John is a cancer epidemiologist and her research focuses on the etiology and prognosis of breast and prostate cancer, to better understand modifiable lifestyle, hormonal and genetic causes and outcomes of these common cancers. She has a special interest in understanding cancer health disparities and cancer in Hispanics and African Americans, two understudied populations.

#### ACADEMIC APPOINTMENTS

- Professor (Research), Epidemiology and Population Health
- Professor (Research), Medicine - Oncology
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Co-leader, Population Sciences Program, Stanford Cancer Institute, (2014- present)
- Co-leader, Cancer Epidemiology Program, Stanford Cancer Institute, (2005-2014)
- Lecturer & Consulting Assistant/Associate/Full Professor, Dept. Health Research & Policy, Stanford University School of Medicine, (1994-2017)
- Director of Research, Cancer Prevention Institute of California, (2015-2018)
- Director of Epidemiology, Cancer Prevention Institute of California, (2000-2002)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Editorial Board, Cancer Epidemiology, Biomarkers & Prevention (2013 - present)
- Member, American Association of Cancer Research (AACR) (2007 - present)
- Member, American Public Health Association (APHA) (1991 - present)
- Member, Society of Epidemiologic Research (SER) (1988 - present)

#### PROFESSIONAL EDUCATION

- D.E.S., Université de Fribourg, Fribourg, Switzerland , Secondary Education
- M.A., University of North Carolina at Chapel Hill, Chapel Hill, NC , Geography

- M.S.P.H., University of North Carolina at Chapel Hill, Chapel Hill, NC , Epidemiology
- Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC , Epidemiology

## LINKS

- Breast Cancer Family Registry: <http://www.bcfamilyregistry.org>
- Northern California Breast Cancer Family Registry: <http://www.med.stanford.edu/ca-bcfr>
- LEGACY Girls Study: <http://www.legacygirlsstudy.org>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. John has extensive expertise in conducting population-based epidemiologic studies and has led as Principal Investigator multiple large-scale studies, including multi-center studies with a study site in the San Francisco Bay Area with its diverse population. Many of her studies and collaborations investigated cancer health disparities. Her research has focused on the role of modifiable lifestyle factors (e.g., body size, physical activity, diet), hormonal factors, early-life exposures, genetic variants, and gene-environment interactions; differences in risk factors by race/ethnicity, breast cancer subtypes, and prostate cancer subtypes; risk factors for familial breast cancer and second primary breast cancer, as well as prognostic factors related to survival disparities.

As Principal Investigator, Dr. John has led a number of studies conducted in the San Francisco Bay Area, including:

- the Northern California site of the Breast Cancer Family Registry, an on-going prospective multi-generational cohort of over 13,000 families established in 1995 at six international sites;
- the Northern California site of the WECARE Study that investigates risk factors for second primary breast cancer;
- the California site of the Breast Cancer Health Disparities Study that investigated genetic variability and breast cancer risk and survival in Hispanic and non-Hispanic white populations in the context of genetic admixture;
- the Breast Cancer Etiology in Minorities (BEM) Study, a pooled analysis of risk factors for breast cancer subtypes in racial/ethnic minorities;
- the San Francisco Bay Area Breast Cancer Study, a population-based case-control study in nearly 5,000 Hispanic, African American and non-Hispanic white women that investigated the role of modifiable lifestyle factors and other risk factors;
- the San Francisco Bay Area Prostate Cancer Study, a population-based case-control study of lifestyle and genetic risk factors for advanced and localized disease.

These studies collected and pooled extensive data and biospecimens and continue to support numerous ancillary studies, collaborations and international consortia and have contributed to a better understanding of cancer risk and survival in racial/ethnic minority populations.

Dr. John is also a founding PI of the LEGACY Girls Study, an on-going prospective cohort established in 2011 that investigates early life exposures in relation to pubertal development outcomes, breast tissue characteristics, and behavioral and psychosocial outcomes in the context of having a family history or breast cancer.

## Publications

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### PUBLICATIONS

- **Tumor-Infiltrating lymphocytes and breast cancer mortality in racially and ethnically diverse participants of the Northern California breast cancer family registry.** *JNCI cancer spectrum*  
Ransohoff, J. D., Miller, I., Koo, J., Joshi, V., Kurian, A. W., Allison, K. H., John, E. M., Telli, M. L.  
2024
- **Large-scale genome-wide association study of 398,238 women unveils seven novel loci associated with high-grade serous epithelial ovarian cancer risk.** *medRxiv : the preprint server for health sciences*

- Barnes, D. R., Tyrer, J. P., Dennis, J., Leslie, G., Bolla, M. K., Lush, M., Aeilts, A. M., Aittomäki, K., Andrieu, N., Andrulis, I. L., Anton-Culver, H., Arason, A., Arun, et al  
2024
- **Novel breast cancer susceptibility loci under linkage peaks identified in African ancestry consortia.** *Human molecular genetics*  
Ochs-Balcom, H. M., Preus, L., Du, Z., Elston, R. C., Teerlink, C. C., Jia, G., Guo, X., Cai, Q., Long, J., Ping, J., Li, B., Stram, D. O., Shu, et al  
2024
  - **A genome-wide association study of contralateral breast cancer in the Women's Environmental Cancer and Radiation Epidemiology Study.** *Breast cancer research : BCR*  
Sun, X., Reiner, A. S., Tran, A. P., Watt, G. P., Oh, J. H., Mellekjær, L., Lynch, C. F., Knight, J. A., John, E. M., Malone, K. E., Liang, X., Woods, M., Derkach, et al  
2024; 26 (1): 16
  - **Childhood physical activity and pubertal timing: findings from the LEGACY girls study.** *International journal of epidemiology*  
Kehm, R. D., Knight, J. A., Houghton, L. C., McDonald, J. A., Schwartz, L. A., Goldberg, M., Chung, W. K., Frost, C. J., Wei, Y., Bradbury, A. R., Keegan, T. H., Daly, M. B., Buys, et al  
2024
  - **Observational and genetic associations between cardiorespiratory fitness and cancer: a UK Biobank and international consortia study.** *British journal of cancer*  
Watts, E. L., Gonzales, T. I., Strain, T., Saint-Maurice, P. F., Bishop, D. T., Chanock, S. J., Johansson, M., Keku, T. O., Le Marchand, L., Moreno, V., Newcomb, P. A., Newton, C. C., Pai, et al  
2023
  - **Characterizing prostate cancer risk through multi-ancestry genome-wide discovery of 187 novel risk variants.** *Nature genetics*  
Wang, A., Shen, J., Rodriguez, A. A., Saunders, E. J., Chen, F., Janivara, R., Darst, B. F., Sheng, X., Xu, Y., Chou, A. J., Benlloch, S., Dadaev, T., Brook, et al  
2023
  - **A Likelihood Ratio Approach for Utilizing Case-Control Data in the Clinical Classification of Rare Sequence Variants: Application to *BRCA1* and *BRCA2*** *HUMAN MUTATION*  
Zanti, M., O'Mahony, D. G., Parsons, M. T., Li, H., Dennis, J., Aittomäki, K., Andrulis, I. L., Anton-Culver, H., Aronson, K. J., Augustinsson, A., Becher, H., Bojesen, S. E., Bolla, et al  
2023; 2023
  - **Risk of Multiple Primary Cancers in Patients With Merkel Cell Carcinoma: A SEER-Based Analysis.** *JAMA dermatology*  
Eid, E., Maloney, N. J., Cai, Z. R., Zaba, L. C., Kibbi, N., John, E. M., Linos, E.  
2023
  - **Elevated Risk of Visceral Malignant Neoplasms in Extramammary Paget Disease.** *JAMA dermatology*  
Maloney, N. J., Yao, H., Aasi, S. Z., John, E. M., Linos, E., Kibbi, N.  
2023
  - **Trends in Radiation Dose to the Contralateral Breast During Breast Cancer Radiation Therapy.** *Radiation research*  
Watt, G. P., Smith, S. A., Howell, R. M., Pérez-Andújar, A., Reiner, A. S., Cerviño, L., McCormick, B., Hess, D., Knight, J. A., Malone, K. E., John, E. M., Bernstein, L., Lynch, et al  
2023
  - **A genome-wide gene-environment interaction study of breast cancer risk for women of European ancestry.** *Breast cancer research : BCR*  
Middha, P., Wang, X., Behrens, S., Bolla, M. K., Wang, Q., Dennis, J., Michailidou, K., Ahearn, T. U., Andrulis, I. L., Anton-Culver, H., Arndt, V., Aronson, K. J., Auer, et al  
2023; 25 (1): 93
  - **Evaluation of European-based polygenic risk score for breast cancer in Ashkenazi Jewish women in Israel.** *Journal of medical genetics*  
Levi, H., Carmi, S., Rosset, S., Yerushalmi, R., Zick, A., Yablonski-Peretz, T., Wang, Q., Bolla, M. K., Dennis, J., Michailidou, K., Lush, M., Ahearn, T., Andrulis, et al  
2023
  - **Association of the CHEK2 c.1100delC variant, radiotherapy, and systemic treatment with contralateral breast cancer risk and breast cancer-specific survival.** *Cancer medicine*  
Morra, A., Schreurs, M. A., Andrulis, I. L., Anton-Culver, H., Augustinsson, A., Beckmann, M. W., Behrens, S., Bojesen, S. E., Bolla, M. K., Brauch, H., Broeks, A., Buys, S. S., Camp, et al

2023

- **Associations of height, body mass index, and weight gain with breast cancer risk in carriers of a pathogenic variant in BRCA1 or BRCA2: the BRCA1 and BRCA2 Cohort Consortium.** *Breast cancer research : BCR*  
Kast, K., John, E. M., Hopper, J. L., Andrieu, N., Noguès, C., Mouret-Fourme, E., Lasset, C., Fricker, J. P., Berthet, P., Mari, V., Salle, L., Schmidt, M. K., Ausems, et al  
2023; 25 (1): 72
- **Understanding the genetic complexity of puberty timing across the allele frequency spectrum.** *medRxiv : the preprint server for health sciences*  
Kentistou, K. A., Kaisinger, L. R., Stankovic, S., Vaudel, M., de Oliveira, E. M., Messina, A., Walters, R. G., Liu, X., Busch, A. S., Helgason, H., Thompson, D. J., Santon, F., Petricek, et al  
2023
- **Evaluating approaches for constructing polygenic risk scores for prostate cancer in men of African and European ancestry.** *American journal of human genetics*  
Darst, B. F., Shen, J., Madduri, R. K., Rodriguez, A. A., Xiao, Y., Sheng, X., Saunders, E. J., Dadaev, T., Brook, M. N., Hoffmann, T. J., Muir, K., Wan, P., Le Marchand, et al  
2023
- **Evaluating Approaches for Constructing Polygenic Risk Scores for Prostate Cancer in Men of African and European Ancestry.** *medRxiv : the preprint server for health sciences*  
Darst, B. F., Shen, J., Madduri, R. K., Rodriguez, A. A., Xiao, Y., Sheng, X., Saunders, E. J., Dadaev, T., Brook, M. N., Hoffmann, T. J., Muir, K., Wan, P., Le Marchand, et al  
2023
- **Genetically proxied glucose-lowering drug target perturbation and risk of cancer: a Mendelian randomisation analysis.** *Diabetologia*  
Yarmolinsky, J., Bouras, E., Constantinescu, A., Burrows, K., Bull, C. J., Vincent, E. E., Martin, R. M., Dimopoulou, O., Lewis, S. J., Moreno, V., Vujkovic, M., Chang, K. M., Voight, et al  
2023
- **Ovarian cancer pathology characteristics as predictors of variant pathogenicity in BRCA1 and BRCA2.** *British journal of cancer*  
O'Mahony, D. G., Ramus, S. J., Southey, M. C., Meagher, N. S., Hadjisavvas, A., John, E. M., Hamann, U., Imyanitov, E. N., Andrulis, I. L., Sharma, P., Daly, M. B., Hake, C. R., Weitzel, et al  
2023
- **Antimicrobial exposure is associated with decreased survival in triple-negative breast cancer.** *Nature communications*  
Ransohoff, J. D., Ritter, V., Purington, N., Andrade, K., Han, S., Liu, M., Liang, S. Y., John, E. M., Gomez, S. L., Telli, M. L., Schapira, L., Itakura, H., Sledge, et al  
2023; 14 (1): 2053
- **Genome-Wide Analyses Characterize Shared Heritability Among Cancers and Identify Novel Cancer Susceptibility Regions.** *Journal of the National Cancer Institute*  
Lindström, S., Wang, L., Feng, H., Majumdar, A., Huo, S., Macdonald, J., Harrison, T., Turman, C., Chen, H., Mancuso, N., Bammler, T., Gallinger, S., Gruber, et al  
2023
- **Evidence of Novel Susceptibility Variants for Prostate Cancer and a Multiancestry Polygenic Risk Score Associated with Aggressive Disease in Men of African Ancestry.** *European urology*  
Chen, F., Madduri, R. K., Rodriguez, A. A., Darst, B. F., Chou, A., Sheng, X., Wang, A., Shen, J., Saunders, E. J., Rhie, S. K., Bensen, J. T., Ingles, S. A., Kittles, et al  
2023
- **Changes in breast cancer risk and risk factor profiles among U.S.-born and immigrant Asian American women residing in the San Francisco Bay Area.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*  
John, E. M., Koo, J., Ingles, S. A., Kurian, A. W., Hines, L. M.  
2023
- **Breast Cancer Diagnosis, Treatment, and Outcomes of Patients From Sex and Gender Minority Groups.** *JAMA oncology*  
Eckhart, E., Lansinger, O., Ritter, V., Liu, M., Han, S., Schapira, L., John, E. M., Gomez, S., Sledge, G., Kurian, A. W.  
2023

- **Whole exome sequencing and replication for breast cancer among Hispanic/Latino women identifies FANCM as a susceptibility gene for estrogen-receptor-negative breast cancer.** *medRxiv : the preprint server for health sciences*  
Nierenberg, J. L., Adamson, A. W., Hu, D., Huntsman, S., Patrick, C., Li, M., Steele, L., Tong, B., Shieh, Y., Fejerman, L., Gruber, S. B., Haiman, C. A., John, et al  
2023
- **Aggregation tests identify new gene associations with breast cancer in populations with diverse ancestry.** *Genome medicine*  
Mueller, S. H., Lai, A. G., Valkovskaya, M., Michailidou, K., Bolla, M. K., Wang, Q., Dennis, J., Lush, M., Abu-Ful, Z., Ahearn, T. U., Andrulis, I. L., Anton-Culver, H., Antonenkova, et al  
2023; 15 (1): 7
- **Contralateral Breast Cancer Risk Among Carriers of Germline Pathogenic Variants in ATM, BRCA1, BRCA2, CHEK2, and PALB2.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*  
Yadav, S., Boddicker, N. J., Na, J., Polley, E. C., Hu, C., Hart, S. N., Gnanaolivu, R. D., Larson, N., Holtegaard, S., Huang, H., Dunn, C. A., Teras, L. R., Patel, et al  
2023: JCO2201239
- **Genome- and transcriptome-wide association studies of 386,000 Asian and European-ancestry women provide new insights into breast cancer genetics.** *American journal of human genetics*  
Jia, G., Ping, J., Shu, X., Yang, Y., Cai, Q., Kweon, S. S., Choi, J. Y., Kubo, M., Park, S. K., Bolla, M. K., Dennis, J., Wang, Q., Guo, et al  
2022
- **Copy number variants as modifiers of breast cancer risk for BRCA1/BRCA2 pathogenic variant carriers.** *Communications biology*  
Hakkaart, C., Pearson, J. F., Marquart, L., Dennis, J., Wiggins, G. A., Barnes, D. R., Robinson, B. A., Mace, P. D., Aittomaki, K., Andrulis, I. L., Arun, B. K., Azzollini, J., Balmana, et al  
2022; 5 (1): 1061
- **Pathogenic Variants in Breast Cancer Susceptibility Genes and Polygenic Risk among US Latinas and Mexican Women**  
Nierenberg, J. L., John, E. M., Torres-Mejia, G., Haiman, C. A., Kushi, L. H., Gruber, S., Weitzel, J. N., Fejerman, L., Ziv, E., Neuhausen, S. L.  
WILEY.2022: 519-520
- **Physical activity, sedentary time and breast cancer risk: a Mendelian randomisation study.** *British journal of sports medicine*  
Dixon-Suen, S. C., Lewis, S. J., Martin, R. M., English, D. R., Boyle, T., Giles, G. G., Michailidou, K., Bolla, M. K., Wang, Q., Dennis, J., Lush, M., Investigators, A., Ahearn, et al  
2022; 56 (20): 1157-1170
- **Incorporating progesterone receptor expression into the PREDICT breast prognostic model.** *European journal of cancer (Oxford, England : 1990)*  
Grootes, I., Keeman, R., Blows, F. M., Milne, R. L., Giles, G. G., Swerdlow, A. J., Fasching, P. A., Abubakar, M., Andrulis, I. L., Anton-Culver, H., Beckmann, M. W., Blomqvist, C., Bojesen, et al  
2022; 173: 178-193
- **Urinary biomarkers of polycyclic aromatic hydrocarbons (PAHs) and timing of pubertal development: The California PAH Study.** *Epidemiology (Cambridge, Mass.)*  
John, E. M., Keegan, T. H., Terry, M. B., Koo, J., Ingles, S. A., Nguyen, J. T., Thomsen, C., Santella, R. M., Nguyen, K., Yan, B.  
2022
- **Physical activity, sedentary time and breast cancer risk: a Mendelian randomisation study** *BRITISH JOURNAL OF SPORTS MEDICINE*  
Dixon-Suen, S. C., Lewis, S. J., Martin, R. M., English, D. R., Boyle, T., Giles, G. G., Michailidou, K., Bolla, M. K., Wang, Q., Dennis, J., Lush, M., Ahearn, T. U., Ambrosone, et al  
2022
- **Women's thoughts on receiving and sharing genetic information: Considerations for genetic counseling.** *Journal of genetic counseling*  
Pfledderer, C. D., Gren, L. H., Frost, C. J., Andrulis, I. L., Chung, W. K., Genkinger, J., Glendon, G., Hopper, J. L., John, E. M., Southey, M., Terry, M. B., Daly, M. B.  
2022
- **Adherence to the 2020 American Cancer Society Guideline for Cancer Prevention and risk of breast cancer for women at increased familial and genetic risk in the Breast Cancer Family Registry: an evaluation of the weight, physical activity, and alcohol consumption recommendations.** *Breast cancer research and treatment*  
Geczik, A. M., Ferris, J. S., Terry, M. B., Andrulis, I. L., Buys, S. S., Daly, M. B., Hopper, J. L., John, E. M., Kurian, A. W., Southey, M. C., Liao, Y., Genkinger, J. M.  
2022

- **Transcriptome-wide association study identifies novel genes associated with breast cancer susceptibility in Latinas**  
Kapoor, P., Mak, A. C., Kachuri, L., Hu, D., Huntsman, S., Kushi, L. H., Haiman, C., John, E. M., Torres-Mejia, G., Burchard, E. G., Neuhausen, S. L., Fejerman, L., Ziv, et al  
AMER ASSOC CANCER RESEARCH.2022
- **National claims data analysis of outcomes of hospitalized cancer patients without COVID-19 infection during versus prior to the COVID-19 pandemic.**  
Caswell-Jin, J., Shafae, M., Liu, M., Xiao, L., John, E. M., Bondy, M., Kurian, A. W.  
LIPPINCOTT WILLIAMS & WILKINS.2022: E18679
- **Breast cancer diagnosis and treatment during the COVID-19 pandemic in a nationwide, insured population.** *Breast cancer research and treatment*  
Caswell-Jin, J. L., Shafae, M. N., Xiao, L., Liu, M., John, E. M., Bondy, M. L., Kurian, A. W.  
2022
- **Maternal and prenatal factors and age at thelarche in the LEGACY Girls Study cohort: implications for breast cancer risk.** *International journal of epidemiology*  
Goldberg, M., McDonald, J. A., Houghton, L. C., Andrulis, I. L., Knight, J. A., Bradbury, A. R., Schwartz, L. A., Buys, S. S., Frost, C. J., Daly, M. B., John, E. M., Keegan, T. H., Chung, et al  
2022
- **Polygenic Risk Scores for Prediction of Breast Cancer Risk in Women of African Ancestry: a Cross-Ancestry Approach.** *Human molecular genetics*  
Gao, G., Zhao, F., Ahearn, T. U., Lunetta, K. L., Troester, M. A., Du, Z., Ogundiran, T. O., Ojengbade, O., Blot, W., Nathanson, K. L., Domchek, S. M., Nemesure, B., Hennis, et al  
2022
- **Relevance of the MHC region for breast cancer susceptibility in Asians.** *Breast cancer (Tokyo, Japan)*  
Ho, P. J., Khng, A. J., Tan, B. K., Tan, E. Y., Tan, S. M., Tan, V. K., Lim, G. H., Aronson, K. J., Chan, T. L., Choi, J. Y., Dennis, J., Ho, W. K., Hou, et al  
2022
- **Overall survival is the lowest among young women with postpartum breast cancer.** *European journal of cancer (Oxford, England : 1990)*  
Shagisultanova, E., Gao, D., Callihan, E., Parris, H. J., Risendal, B., Hines, L. M., Slattery, M. L., Baumgartner, K., Schedin, P., John, E. M., Borges, V. F.  
2022; 168: 119-127
- **Ancestral diversity improves discovery and fine-mapping of genetic loci for anthropometric traits-The Hispanic/Latino Anthropometry Consortium.** *HGG advances*  
Fernandez-Rhodes, L., Graff, M., Buchanan, V. L., Justice, A. E., Highland, H. M., Guo, X., Zhu, W., Chen, H., Young, K. L., Adhikari, K., Palmer, N. D., Below, J. E., Bradfield, et al  
2022; 3 (2): 100099
- **Genome-wide and transcriptome-wide association studies of mammographic density phenotypes reveal novel loci.** *Breast cancer research : BCR*  
Chen, H., Fan, S., Stone, J., Thompson, D. J., Douglas, J., Li, S., Scott, C., Bolla, M. K., Wang, Q., Dennis, J., Michailidou, K., Li, C., Peters, et al  
2022; 24 (1): 27
- **Correction: Polygenic risk modeling for prediction of epithelial ovarian cancer risk.** *European journal of human genetics : EJHG*  
Dareng, E. O., Tyrer, J. P., Barnes, D. R., Jones, M. R., Yang, X., Aben, K. K., Adank, M. A., Agata, S., Andrulis, I. L., Anton-Culver, H., Antonenkova, N. N., Aravantinos, G., Arun, et al  
2022
- **Association of contralateral breast cancer risk with mammographic density defined at higher-than-conventional intensity thresholds.** *International journal of cancer*  
Watt, G. P., Knight, J. A., Nguyen, T. L., Reiner, A. S., Malone, K. E., John, E. M., Lynch, C. F., Brooks, J. D., Woods, M., Liang, X., Bernstein, L., Pike, M. C., Hopper, et al  
2022
- **Diet Quality and All-Cause Mortality in Women with Breast Cancer from the 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*  
Haslam, D. E., John, E. M., Knight, J. A., Li, Z., Buys, S. S., Andrulis, I. L., Daly, M. B., Genkinger, J. M., Terry, M. B., Zhang, F. F.  
2022
- **Body mass index rebound and pubertal timing in girls with and without a family history of breast cancer: the LEGACY girls study.** *International journal of epidemiology*

- Houghton, L. C., Wei, Y., Wang, T., Goldberg, M., Paniagua-Avila, A., Sweeden, R. L., Bradbury, A., Daly, M., Schwartz, L. A., Keegan, T., John, E. M., Knight, J. A., Andrulis, et al  
2022
- **Prostate cancer risk stratification improvement across multiple ancestries with new polygenic hazard score.** *Prostate cancer and prostatic diseases*  
Huynh-Le, M., Karunamuni, R., Fan, C. C., Asona, L., Thompson, W. K., Martinez, M. E., Eeles, R. A., Kote-Jarai, Z., Muir, K. R., Lophatananon, A., Schleutker, J., Pashayan, N., Batra, et al  
2022
  - **Cancer Risks Associated With BRCA1 and BRCA2 Pathogenic Variants.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*  
Li, S., Silvestri, V., Leslie, G., Rebbeck, T. R., Neuhausen, S. L., Hopper, J. L., Nielsen, H. R., Lee, A., Yang, X., McGuffog, L., Parsons, M. T., Andrulis, I. L., Arnold, et al  
1800: JCO2102112
  - **Oral Contraceptive Use in BRCA1 and BRCA2 Mutation Carriers: Absolute Cancer Risks and Benefits.** *Journal of the National Cancer Institute*  
Schrijver, L. H., Mooij, T. M., Pijpe, A., Sonke, G. S., Mourits, M. J., Andrieu, N., Antoniou, A. C., Easton, D. F., Engel, C., Goldgar, D., John, E. M., Kast, K., Milne, et al  
1800
  - **Improvement on recovery and reproducibility for quantifying urinary mono-hydroxylated polycyclic aromatic hydrocarbons (OH-PAHs).** *Journal of chromatography. B, Analytical technologies in the biomedical and life sciences*  
Nguyen, K., Pitiranggon, M., Wu, H., John, E. M., Santella, R. M., Terry, M. B., Yan, B.  
1800; 1192: 123113
  - **A Rare Germline HOXB13 Variant Contributes to Risk of Prostate Cancer in Men of African Ancestry.** *European urology*  
Darst, B. F., Hughley, R., Pfennig, A., Hazra, U., Fan, C., Wan, P., Sheng, X., Xia, L., Andrews, C., Chen, F., Berndt, S. I., Kote-Jarai, Z., Govindasami, et al  
1800
  - **Breast Cancer Screening Strategies for Women With ATM, CHEK2, and PALB2 Pathogenic Variants: A Comparative Modeling Analysis.** *JAMA oncology*  
Lowry, K. P., Geuzinge, H. A., Stout, N. K., Alagoz, O., Hampton, J., Kerlikowske, K., de Koning, H. J., Miglioretti, D. L., van Ravesteyn, N. T., Schechter, C., Sprague, B. L., Tosteson, A. N., Trentham-Dietz, et al  
2022
  - **Differences in Thickness-Specific Incidence and Factors Associated With Cutaneous Melanoma in the US From 2010 to 2018.** *JAMA oncology*  
Chen, M. L., de Vere Hunt, I. J., John, E. M., Weinstock, M. A., Swetter, S. M., Linos, E.  
2022
  - **Rare germline copy number variants (CNVs) and breast cancer risk.** *Communications biology*  
Dennis, J., Tyrer, J. P., Walker, L. C., Michailidou, K., Dorling, L., Bolla, M. K., Wang, Q., Ahearn, T. U., Andrulis, I. L., Anton-Culver, H., Antonenkova, N. N., Arndt, V., Aronson, et al  
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