

CANCER EPIDEMIOLOGY,  
BIOMARKERS & PREVENTION

# TABLE OF CONTENTS

## HIGHLIGHTS

1281 **Selected Articles from This Issue**

## COMMENTARY

1283 **The COronavirus Pandemic Epidemiology (COPE) Consortium: A Call to Action**

Andrew T. Chan, David A. Drew, Long H. Nguyen, Amit D. Joshi, Wenjie Ma, Chuan-Guo Guo, Chun-Han Lo, Raaj S. Mehta, Sohee Kwon, Daniel R. Sikavi, Marina V. Magicheva-Gupta, Zahra S. Fatehi, Jacqueline J. Flynn, Brianna M. Leonardo, Christine M. Albert, Gabriella Andreotti, Laura E. Beane-Freeman, Bijal A. Balasubramanian, John S. Brownstein, Fiona Bruinsma, Annie N. Cowan, Anusila Deka, Michael E. Ernst, Jane C. Figueiredo, Paul W. Franks, Christopher D. Gardner, Irene M. Ghobrial, Christopher A. Haiman, Janet E. Hall, Sandra L. Deming-Halverson, Brenda Kirpach, James V. Lacey Jr, Loïc Le Marchand, Catherine R. Marinac, Maria Elena Martinez, Roger L. Milne, Anne M. Murray, Denis Nash, Julie R. Palmer, Alpa V. Patel, Lynn Rosenberg, Dale P. Sandler, Shreela V. Sharma, Shepherd H. Schurman, Lynne R. Wilkens, Jorge E. Chavarro, A. Heather Eliassen, Jaime E. Hart, Jae Hee Kang, Karestan C. Koenen, Laura D. Kubzansky, Lorelei A. Mucci, Sebastien Ourselin, Janet W. Rich-Edwards, Mingyang Song, Meir J. Stampfer, Claire J. Steves, Walter C. Willett, Jonathan Wolf, and Tim Spector; for the COPE Consortium

1290 **Strengthening Resilience and Adaptive Capacity to Disasters in Cancer Control Plans: Lessons Learned from Puerto Rico**

Ana P. Ortiz, William A. Calo, Pablo Mendez-Lazaro, Sandra García-Camacho, Ana Mercado-Casillas, Jessica Cabrera-Márquez, and Guillermo Tortolero-Luna

## MINIREVIEW

1294 **Current State of Geospatial Methodologic Approaches in Canadian Population Oncology Research**

Jonathan Simkin, Anders C. Erickson, Michael C. Otterstatter, Trevor J.B. Dummer, and Gina Ogilvie

## RESEARCH ARTICLES

1304 **Medical Care Costs Associated with Cancer Survivorship in the United States**

Angela B. Mariotto, Lindsey Enewold, Jingxuan Zhao, Christopher A. Zeruto, and K. Robin Yabroff

1313 **Urban versus Rural Residence and Outcomes in Older Patients with Breast Cancer**

Kelly M. Kenzik, Gabrielle B. Rocque, Wendy Landier, and Smita Bhatia

1321 **Effects of Weight Loss and Weight Regain on Circulating Biomarkers in Overweight/Obese Breast Cancer Survivors Enrolled in a Weight Loss Trial in the Rural Midwest**

Christie A. Befort, Bruce F. Kimler, Leonidas E. Bantis, Teresa A. Phillips, and Carol J. Fabian

1329 **Serum Metabolomic Response to Low- and High-Dose Vitamin E Supplementation in Two Randomized Controlled Trials**

Jiaqi Huang, Howard N. Hodis, Stephanie J. Weinstein, Wendy J. Mack, Joshua N. Sampson, Alison M. Mondul, and Demetrius Albanes

1335 **Serum Iodine and Breast Cancer Risk: A Prospective Nested Case-Control Study Stratified for Selenium Levels**

Jonas Manjer, Malte Sandsveden, and Signe Borgquist

1341 **Hormone Replacement Therapy, Breast Cancer Risk Factors, and Breast Cancer Risk: A Nationwide Population-Based Cohort**

Tae-Kyung Yoo, Kyung Do Han, DaHye Kim, Juneyoung Ahn, Woo-Chan Park, and Byung Joo Chae

# TABLE OF CONTENTS

- 1348 Heterogeneity in Trust of Cancer Information among Hispanic Adults in the United States: An Analysis of the Health Information National Trends Survey**  
Marlene Camacho-Rivera, Christopher J. Gonzalez, Jason Amilcar Morency, Kelly D. Blake, and Rose Calixte
- 1357 Racial/Ethnic Disparities in Prostate Cancer Incidence, Distant Stage Diagnosis, and Mortality by U.S. Census Region and Age Group, 2012–2015**  
Siddharth Iyengar, Ingrid J. Hall, and Susan A. Sabatino
- 1365 Prostate Cancer Incidence and Aggressiveness in Appalachia versus Non-Appalachia Populations in Pennsylvania by Urban-Rural Regions, 2004–2014**  
Alicia C. McDonald, Emily Wasserman, Eugene J. Lengrich, Jay D. Raman, Nathaniel R. Geyer, Raymond J. Hohl, and Ming Wang
- 1374 Diversity of Enrollment in Prostate Cancer Clinical Trials: Current Status and Future Directions**  
Emily M. Rencsok, Latifa A. Bazzi, Rana R. McKay, Franklin W. Huang, Adam Friedant, Jake Vinson, Samuel Peisch, Jelani C. Zarif, Stacey Simmons, Kelly Hawthorne, Paul Villanti, Philip W. Kantoff, Elisabeth Heath, Daniel J. George, and Lorelei A. Mucci
- 1381 The Four-Kallikrein Panel Is Effective in Identifying Aggressive Prostate Cancer in a Multiethnic Population**  
Burcu F. Darst, Alisha Chou, Peggy Wan, Loreall Pooler, Xin Sheng, Emily A. Vertosick, David V. Conti, Lynne R. Wilkens, Loïc Le Marchand, Andrew J. Vickers, Hans G. Lilja, and Christopher A. Haiman
- 1389 Sex Differences in Cancer Incidence and Survival: A Pan-Cancer Analysis**  
Michelle Dong, Gino Cioffi, Jacqueline Wang, Kristin A. Waite, Quinn T. Ostrom, Carol Kruchko, Justin D. Lathia, Joshua B. Rubin, Michael E. Berens, James Connor, and Jill S. Barnholtz-Sloan
- 1398 Cancer Incidence Projections in Northern Ireland to 2040**  
David W. Donnelly, Lesley A. Anderson, and Anna Gavin; for the Northern Ireland Cancer Registry Group
- 1406 Prevalence of Cigarette Smoking among Patients with Different Histologic Types of Kidney Cancer**  
Ted Gansler, Stacey A. Fedewa, W. Dana Flanders, Lori A. Pollack, David A. Siegel, and Ahmedin Jemal
- 1413 Impact of Tobacco Control Policies on Smoking-Related Cancer Incidence in Germany 2020 to 2050—A Simulation Study**  
Thomas Gredner, Tobias Niedermaier, Hermann Brenner, and Ute Mons
- 1423 Association Analysis of Driver Gene-Related Genetic Variants Identified Novel Lung Cancer Susceptibility Loci with 20,871 Lung Cancer Cases and 15,971 Controls**  
Yuzhuo Wang, Olga Y. Gorlova, Ivan P. Gorlov, Meng Zhu, Juncheng Dai, Demetrius Albanes, Stephen Lam, Adonina Tardon, Chu Chen, Gary E. Goodman, Stig E. Bojesen, Maria Teresa Landi, Mattias Johansson, Angela Risch, Heunz-Erich Wichmann, Heike Bickeboller, David C. Christiani, Gad Rennert, Susanne M. Arnold, Paul Brennan, John K. Field, Sanjay Shete, Loïc Le Marchand, Olle Melander, Hans Brunnstrom, Geoffrey Liu, Rayjean J. Hung, Angeline S. Andrew, Lambertus A. Kiemeny, Shanbeh Zienolddiny, Kjell Grankvist, Mikael Johansson, Neil E. Caporaso, Penella J. Woll, Philip Lazarus, Matthew B. Schabath, Melinda C. Aldrich, Victoria L. Stevens, Hongxia Ma, Guangfu Jin, Zhibin Hu, Christopher I. Amos, and Hongbing Shen
- 1430 Association between Dietary Tomato Intake and the Risk of Hepatocellular Carcinoma: The Singapore Chinese Health Study**  
Claire E. Thomas, Hung N. Luu, Renwei Wang, Jennifer Adams-Haduch, Aizhen Jin, Woon-Puay Koh, and Jian-Min Yuan
- 1436 Modeling the Balance of Benefits and Harms of Cervical Cancer Screening with Cytology and Human Papillomavirus Testing**  
Talía Malagón, Marie-Hélène Mayrand, Gina Ogilvie, Walter H. Gotlieb, Jennifer Blake, Céline Bouchard, Eduardo L. Franco, and Shalini Kulasingam
- 1447 Hazard of Cervical, Oropharyngeal, and Anal Cancers in HIV-Infected and HIV-Uninfected Medicaid Beneficiaries**  
Joanne M. Michaud, Tingting Zhang, Theresa I. Shireman, Yoojin Lee, and Ira B. Wilson
- 1458 Patterns and Disparities in Human Papillomavirus (HPV) Vaccine Uptake for Young Female Adolescents among U.S. States: NIS-Teen (2008–2016)**  
Wonsuk Yoo, Alexis Koskan, Matthew Scotch, Heidi Pottinger, Warner K. Huh, and Deborah Helitzer
- 1468 Serum Concentrations of Emerging Vitamin D Biomarkers and Detection of Prevalent High-Risk HPV Infection in Mid-adult Women**  
Catherine Troja, Andrew N. Hoofnagle, Adam Szpiro, Joshua E. Stern, John Lin, and Rachel L. Winer

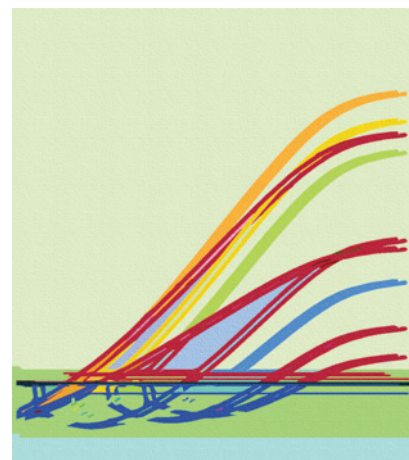
# TABLE OF CONTENTS

- 1475**     **Antibody Responses to *Helicobacter pylori* and Risk of Developing Colorectal Cancer in a European Cohort**  
Julia Butt, Mazda Jenab, Michael Pawlita, Anne Tjønneland, Cecilie Kyro, Marie-Christine Boutron-Ruault, Franck Carbonnel, Catherine Dong, Rudolf Kaaks, Tilman Kühn, Heiner Boeing, Matthias B. Schulze, Antonia Trichopoulou, Anna Karakatsani, Carlo La Vecchia, Domenico Palli, Claudia Agnoli, Rosario Tumino, Carlotta Sacerdote, Salvatore Panico, Bas Bueno-de-Mesquita, Roel Vermeulen, Inger T. Gram, Elisabete Weiderpass, Kristin Benjaminsen Borch, Jose Ramón Quirós, Antonio Agudo, Miguel Rodríguez-Barranco, Carmen Santiuste, Eva Ardanaz, Bethany Van Guelpen, Sophia Harlid, Liher Imaz, Aurora Perez-Cornago, Marc J. Gunter, Semi Zouiouich, Jin Young Park, Elio Riboli, Amanda J. Cross, Alicia K. Heath, Tim Waterboer, and David J. Hughes
- 1482**     **C-reactive Protein and Future Risk of Clinical and Molecular Subtypes of Colorectal Cancer**  
**AC** Stina Bodén, Robin Myte, Justin Harbs, Anneli Sundkvist, Carl Zingmark, Anna Löfgren Burström, Richard Palmqvist, Sophia Harlid, and Bethany Van Guelpen
- 1492**     **Leukocyte Telomere Length and Its Interaction with Germline Variation in Telomere-Related Genes in Relation to Pancreatic Adenocarcinoma Risk**  
Samuel O. Antwi, William R. Bamlet, Kari G. Rabe, Richard M. Cawthon, Isoken Umudi, Brooke R. Druliner, Hugues Sicotte, Ann L. Oberg, Aminah Jatoi, Lisa A. Boardman, and Gloria M. Petersen
- 1501**     **Associations between Genetically Predicted Blood Protein Biomarkers and Pancreatic Cancer Risk**  
Jingjing Zhu, Xiang Shu, Xingyi Guo, Duo Liu, Jiandong Bao, Roger L. Milne, Graham G. Giles, Chong Wu, Mengmeng Du, Emily White, Harvey A. Risch, Nuria Malats, Eric J. Duell, Phyllis J. Goodman, Donghui Li, Paige Bracci, Verena Katzke, Rachel E. Neale, Steven Gallinger, Stephen K. Van Den Eeden, Alan A. Arslan, Federico Canzian, Charles Kooperberg, Laura E. Beane Freeman, Ghislaine Scelo, Kala Visvanathan, Christopher A. Haiman, Loïc Le Marchand, Herbert Yu, Gloria M. Petersen, Rachael Stolzenberg-Solomon, Alison P. Klein, Qiuyin Cai, Jirong Long, Xiao-Ou Shu, Wei Zheng, and Lang Wu
- NULL RESULTS IN BRIEF**
- 1509**     **Gestational Diabetes and Risk of Breast Cancer in African American Women**  
Kimberly A. Bertrand, Nelsy Castro-Webb, Yvette C. Cozier, Shanshan Li, Katie M. O'Brien, Lynn Rosenberg, and Julie R. Palmer

**AC** AC icon indicates AuthorChoice  
For more information please visit [www.aacrjournals.org](http://www.aacrjournals.org)

## ABOUT THE COVER

The cover image is adapted from Figure 3 in the article, “Modeling the Balance of Benefits and Harms of Cervical Cancer Screening with Cytology and Human Papillomavirus Testing,” by Malagón and colleagues. The figure shows the cumulative lifetime net quality-adjusted life-years (QALY) gain and cervical cancer incidence by age and by number of 27 lifetime screens. In this study, the authors used a cervical cancer natural history Markov model calibrated to the Canadian context to examine different balance metrics to measure whether the benefits of cervical cancer screening outweigh its potential harms in unvaccinated women. Metrics were compared between cytology-based and human papilloma virus (HPV)-based screening strategies to assess which strategies may lead to a better balance between benefits and harms. Metrics using colposcopies as the main harm outcome favored cytology-based screening, whereas metrics based on screening tests and health preferences tended to favor HPV-based screening strategies. Whether HPV-based screening will improve the balance between benefits and harms of cervical cancer screening depends on how the balance between benefits and harms is assessed. For more information, see the article beginning on page 1436.



# BLOOD CANCER DISCOVERY

**29 (7)**

*Cancer Epidemiol Biomarkers Prev* 2020;29:1281-1511.

**Updated version** Access the most recent version of this article at:  
<http://cebp.aacrjournals.org/content/29/7>

**E-mail alerts** [Sign up to receive free email-alerts](#) related to this article or journal.

**Reprints and Subscriptions** To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at [pubs@aacr.org](mailto:pubs@aacr.org).

**Permissions** To request permission to re-use all or part of this article, use this link  
<http://cebp.aacrjournals.org/content/29/7>.  
Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.