

## Highlights of This Issue 1

## HYPOTHESIS/COMMENTARY

- 3** The Evolving Scale and Profile of Cancer Worldwide: Much Ado About Everything  
Freddie Bray  
*See related article, p. 16*

## MINIREVIEW

- 6** Diagnostic Metabolomic Blood Tests for Endoluminal Gastrointestinal Cancer—A Systematic Review and Assessment of Quality  
Stefan Antonowicz, Sacheen Kumar, Tom Wiggins, Sheraz R. Markar, and George B. Hanna


## REVIEW

- 16** Global Cancer Incidence and Mortality Rates and Trends—An Update  
Lindsey A. Torre, Rebecca L. Siegel, Elizabeth M. Ward, and Ahmedin Jemal  
*See related commentary, p. 3*

## CANCER SURVEILLANCE RESEARCH

- 28** Herpes Zoster and Risk of Cancer in the Elderly U.S. Population  
Parag Mahale, Elizabeth L. Yanik, and Eric A. Engels

## RESEARCH ARTICLES

- 36** Risk Stratification Using Human Papillomavirus Testing among Women with Equivocally Abnormal Cytology: Results from a State-Wide Surveillance Program  
 Julia C. Gage, William C. Hunt, Mark Schiffman, Hormuzd A. Katki, Li C. Cheung, Jack Cuzick, Orrin Myers, Philip E. Castle, and Cosette M. Wheeler, for The New Mexico HPV Pap Registry Steering Committee
- 43** Periodontal Disease and Breast Cancer: Prospective Cohort Study of Postmenopausal Women  
Jo L. Freudenheim, Robert J. Genco, Michael J. LaMonte, Amy E. Millen, Kathleen M. Hovey, Xiaodan Mai, Ngozi Nwizu, Christopher A. Andrews, and Jean Wactawski-Wende

- 51** Body Mass Index at Diagnosis and Breast Cancer Survival Prognosis in Clinical Trial Populations from NRG Oncology/NSABP B-30, B-31, B-34, and B-38  
Reena S. Cecchini, Sandra M. Swain, Joseph P. Costantino, Priya Rastogi, Jong-Hyeon Jeong, Stewart J. Anderson, Gong Tang, Charles E. Geyer Jr, Barry C. Lembersky, Edward H. Romond, Alexander H.G. Paterson, and Norman Wolmark

- 60** Association of Parity and Time since Last Birth with Breast Cancer Prognosis by Intrinsic Subtype  
Xuezheng Sun, Hazel B. Nichols, Chiu-Kit Tse, Mary B. Bell, Whitney R. Robinson, Mark E. Sherman, Andrew F. Olshan, and Melissa A. Troester

- 68** Clinicopathologic Risk Factor Distributions for *MLH1* Promoter Region Methylation in CIMP-Positive Tumors  
A. Joan Levine, Amanda I. Phipps, John A. Baron, Daniel D. Buchanan, Dennis J. Ahnen, Stacey A. Cohen, Noralane M. Lindor, Polly A. Newcomb, Christophe Rosty, Robert W. Haile, Peter W. Laird, and Daniel J. Weisenberger

- 76** Partnership Status and Socioeconomic Factors in Relation to Health Behavior Changes after a Diagnosis of Ductal Carcinoma *In Situ*  
Sherrie Khadanga, Susan G. Lakoski, Vicki Hart, Brian L. Sprague, Yi Ba, John M. Hampton, Stephen T. Higgins, Philip A. Ades, Polly A. Newcomb, and Amy Trentham-Dietz

- 83** The Role of Stage at Diagnosis in Colorectal Cancer Black–White Survival Disparities: A Counterfactual Causal Inference Approach  
Linda Valeri, Jarvis T. Chen, Xabier Garcia-Albeniz, Nancy Krieger, Tyler J. VanderWeele, and Brent A. Coull

- 90** Obesity and the Incidence of Upper Gastrointestinal Cancers: An Ecological Approach to Examine Differences across Age and Sex  
Melina Arnold, Amy Colquhoun, Michael B. Cook, Jacques Ferlay, David Forman, and Isabelle Soerjomataram

# Table of Contents

- 98** Co-occurrence of Myeloproliferative Neoplasms and Solid Tumors Is Attributed to a Synergism Between Cytoreductive Therapy and the Common *TERT* Polymorphism rs2736100  
Tunde Krahling, Katalin Balassa, Katalin Piroska Kiss, Andras Bors, Arpad Batai, Gabriella Halm, Miklos Egyed, Sandor Fekete, Peter Remenyi, Tamas Masszi, Attila Tordai, and Hajnalka Andrikovics
- 105** Quantifying the Role of Circulating Unconjugated Estradiol in Mediating the Body Mass Index–Breast Cancer Association  
Catherine Schairer, Barbara J. Fuhrman, Jennifer Boyd-Morin, Jeanine M. Genkinger, Mitchell H. Gail, Robert N. Hoover, and Regina G. Ziegler
- 114** Confounding of the Association between Radiation Exposure from CT Scans and Risk of Leukemia and Brain Tumors by Cancer Susceptibility Syndromes  
Johanna M. Meulepas, Cécile M. Ronckers, Johannes Merks, Michel E. Weijerman, Jay H. Lubin, and Michael Hauptmann
- 127** Acrylamide and Glycidamide Hemoglobin Adducts and Epithelial Ovarian Cancer: A Nested Case–Control Study in Nonsmoking Postmenopausal Women from the EPIC Cohort  
Mireia Obón-Santacana, Leila Lujan-Barroso, Ruth C. Travis, Heinz Freisling, Pietro Ferrari, Gianluca Severi, Laura Baglietto, Marie-Christine Boutron-Ruault, Renée T. Fortner, Jennifer Ose, Heiner Boeing, Virginia Menéndez, Emilio Sánchez-Cantalejo, Saïoa Chamosa, José María Huerta Castaño, Eva Ardanaz, Kay-Tee Khaw, Nick Wareham, Melissa A. Merritt, Marc J. Gunter, Antonia Trichopoulou, Eleni-Maria Papatista, Eleni Klinaki, Calogero Saieva, Giovanna Tagliabue, Rosario Tumino, Carlotta Sacerdote, Amalia Mattiello, H.B. Bueno-de-Mesquita, Petra H. Peeters, N. Charlotte Onland-Moret, Annika Idahl, Eva Lundin, Elisabete Weiderpass, Hubert W. Vesper, Elio Riboli, and Eric J. Duell
- 135** Long-Term Impact of the Dutch Colorectal Cancer Screening Program on Cancer Incidence and Mortality—Model-Based Exploration of the Serrated Pathway  
Marjolein J.E. Greuter, Erhan Demirel, Jie-Bin Lew, Johannes Berkhof, Xiang-Ming Xu, Karen Canfell, Evelien Dekker, Gerrit A. Meijer, and Veerle M.H. Coupé
- 145** The Heritability of Breast Cancer among Women in the Nordic Twin Study of Cancer  
Sören Möller, Lorelei A. Mucci, Jennifer R. Harris, Thomas Scheike, Klaus Holst, Ulrich Halekoh, Hans-Olov Adami, Kamila Czene, Kaare Christensen, Niels V. Holm, Eero Pukkala, Axel Skytthe, Jaakko Kaprio, and Jacob B. Hjelmberg
- 151** Hormonal and Reproductive Factors and Risk of Myeloproliferative Neoplasms in Postmenopausal Women  
Alexis D. Leal, Carrie A. Thompson, Alice H. Wang, Robert A. Vierkant, Thomas M. Habermann, Julie A. Ross, Ruben A. Mesa, Beth A. Virnig, and James R. Cerhan
- 158** Depression, Antidepressant Use, and Postmenopausal Breast Cancer Risk  
Susan B. Brown, Susan E. Hankinson, Kathleen F. Arcaro, Jing Qian, and Katherine W. Reeves
- 165** Prevalence, Clinicopathological Characteristics, and Outcome of Human Papillomavirus–Associated Oropharyngeal Cancer in Southern Chinese Patients  
Eddy W.H. Lam, Jimmy Y.W. Chan, Amy B.W. Chan, Chi Sing Ng, Stephen T.H. Lo, Vincent S.C. Lam, Michael M.H. Chan, Chi Man Ngai, Alexander C. Vlantis, Raymond K.H. Ma, and Paul K.S. Chan
- 174** Contributions of Subtypes of Non-Hodgkin Lymphoma to Mortality Trends  
Nadia Howlader, Lindsay M. Morton, Eric J. Feuer, Caroline Besson, and Eric A. Engels
- 180** Aspirin Reduces Plasma Concentrations of the Oncometabolite 2-Hydroxyglutarate: Results of a Randomized, Double-Blind, Crossover Trial  
David B. Liesenfeld, Akke Botma, Nina Habermann, Reka Toth, Christoph Weigel, Odilia Popanda, Karel D. Klika, John D. Potter, Johanna W. Lampe, and Cornelia M. Ulrich

- 188** **A GWAS Meta-analysis and Replication Study Identifies a Novel Locus within *CLPTM1L/TERT* Associated with Nasopharyngeal Carcinoma in Individuals of Chinese Ancestry**



Jin-Xin Bei, Wen-Hui Su, Ching-Ching Ng, Kai Yu, Yoon-Ming Chin, Pei-Jen Lou, Wan-Lun Hsu, James D. McKay, Chien-Jen Chen, Yu-Sun Chang, Li-Zhen Chen, Ming-Yuan Chen, Qian Cui, Fu-Tuo Feng, Qi-Shen Feng, Yun-Miao Guo, Wei-Hua Jia, Alan Soo-Beng Khoo, Wen-Sheng Liu, Hao-Yuan Mo, Kin-Choo Pua, Soo-Hwang Teo, Ka-Po Tse, Yun-Fei Xia, Hongxin Zhang, Gang-Qiao Zhou, Jian-Jun Liu, Yi-Xin Zeng, and Allan Hildesheim, on behalf of the International Nasopharyngeal Carcinoma (NPC) Genetics Working Group

- 193** **A Cross-Cancer Genetic Association Analysis of the DNA Repair and DNA Damage Signaling Pathways for Lung, Ovary, Prostate, Breast, and Colorectal Cancer**

Peter M. Scarbrough, Rachel Palmieri Weber, Edwin S. Iversen, Yonathan Brhane, Christopher I. Amos, Peter Kraft, Rayjean J. Hung, Thomas A. Sellers, John S. Witte, Paul Pharoah, Brian E. Henderson, Stephen B. Gruber, David J. Hunter, Judy E. Garber, Amit D. Joshi, Kevin McDonnell, Doug F. Easton, Ros Eeles, Zsofia Kote-Jarai, Kenneth Muir, Jennifer A. Doherty, and Joellen M. Schildkraut

## SHORT COMMUNICATIONS

- 201** **Statin Use and Breast Cancer Risk in the Nurses' Health Study**

Signe Borgquist, Rulla M. Tamimi, Wendy Y. Chen, Judy E. Garber, A. Heather Eliassen, and Thomas P. Ahern

- 207** **Prevalence of Pathogenic Mutations in Cancer Predisposition Genes among Pancreatic Cancer Patients**

Chunling Hu, Steven N. Hart, William R. Bamlet, Raymond M. Moore, Kannabiran Nandakumar, Bruce W. Eckloff, Yean K. Lee, Gloria M. Petersen, Robert R. McWilliams, and Fergus J. Couch

- 212** **Longitudinal Change in Mammographic Density among ER-Positive Breast Cancer Patients Using Tamoxifen**

Sarah J. Nyante, Mark E. Sherman, Ruth M. Pfeiffer, Amy Berrington de Gonzalez, Louise A. Brinton, Erin J. Aiello Bowles, Robert N. Hoover, Andrew Glass, and Gretchen L. Gierach

## NULL RESULTS IN BRIEF

- 217** **A Pooled Analysis of Reproductive Factors, Exogenous Hormone Use, and Risk of Multiple Myeloma among Women in the International Multiple Myeloma Consortium**

Laura Costas, Brice H. Lambert, Brenda M. Birmann, Kirsten B. Moysich, Anneclaire J. De Roos, Jonathan N. Hofmann, Dalsu Baris, Sophia S. Wang, Nicola J. Camp, Guido Tricot, Djordje Atanackovic, Paul Brennan, Pierluigi Cocco, Alexandra Nieters, Nikolaus Becker, Marc Maynadié, Lenka Foretová, Paolo Boffetta, Anthony Staines, Elisabeth E. Brown, and Silvia de Sanjosé

## LETTERS TO THE EDITOR

- 222** **Risk Analysis of Prostate Cancer in PRACTICAL Consortium—Letter**

Forike K. Martens, Jannigje G. Kers, and A. Cecile J.W. Janssens

- 223** **Risk Analysis of Prostate Cancer in PRACTICAL Consortium—Response**

Ali Amin Al Olama, Rosalind A. Eeles, Zsofia Kote-Jarai, and Douglas F. Easton

## ASPO REPORT

- 224** **Job Talks and Interviews: How to Stand Out and Fit In: A Report from the American Society of Preventive Oncology Junior Members Interest Group**

Katherine W. Reeves, Parisa Tehranifar, Tracy E. Crane, Linda K. Ko, Carrie Cameron, Jada G. Hamilton, Jackie A. Lavigne, Paul L. Reiter, and Cynthia A. Thomson

AC icon indicates Author Choice

For more information please visit [www.aacrjournals.org](http://www.aacrjournals.org)

# Cancer Epidemiology, Biomarkers & Prevention

AACR American Association  
for Cancer Research

25 (1)

*Cancer Epidemiol Biomarkers Prev* 2016;25:1-225.

**Updated version** Access the most recent version of this article at:  
<http://cebp.aacrjournals.org/content/25/1>

**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/25/1>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.