### Highlights of This Issue  

**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  

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 Treenthal-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
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, András Bon, Arpad Batai, Gabriella Halm, Miklos Egley, Sandor Fekete, Peter Remenyi, Tamas Masszi, Attila Tordai, and Hajnalka Andrikovics

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

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

Acrylamide and Glycidamide Hemoglobin Adducts and Epithelial Ovarian Cancer: A Nested Case–Control Study in Nonsmoking Postmenopausal Women from the EPIC Cohort


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

The Heritability of Breast Cancer among Women in the Nordic Twin Study of Cancer

Soren Møller, Lorelei A. Mcuci, Jennifer R. Harris, Thomas Scheike, Klaus Holst, Ulrich Halekoh, Hans-olov Adam, Kamila Czene, Kaare Christensen, Niels V. Holm, Terep Fuld, Axel Skytlhe, Jaakko Kapioto, and Jacob B. Hjelmhorg

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. Rosa, Ruben A. Mesa, Beth A. Virmig, and James R. Cethan

Depression, Antidepressant Use, and Postmenopausal Breast Cancer Risk

Susan B. Brown, Susan E. Hankinson, Kathleen F. Arcaro, Jing Qian, and Katherine W. Reeves

Prevalence, Clinicopathological Characteristics, and Outcome of Human Papillomavirus–Associated Oropharyngeal Cancer in Southern Chinese Patients


Contributions of Subtypes of Non-Hodgkin Lymphoma to Mortality Trends

Nadia Howlader, Lindsay M. Morton, Eric J. Feuer, Caroline Besson, and Eric A. Engels

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, Odiila Popanda, Karel D. Kika, John D. Potter, Johanna W. Lampe, and Cornelio M. Ulrich
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, Chiien-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-Hwung 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

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


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

Prevalence of Pathogenic Mutations in Cancer Predisposition Genes among Pancreatic Cancer Patients

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

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

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


Risk Analysis of Prostate Cancer in PRACTICAL Consortium—Letter

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

Risk Analysis of Prostate Cancer in PRACTICAL Consortium—Response

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

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