

Highlights of This Issue 2619

CEBP FOCUS: BIOMARKERS, BIOSPECIMENS, AND NEW TECHNOLOGIES IN MOLECULAR EPIDEMIOLOGY

- 2622** Expanding Epigenomics to Archived FFPE Tissues: An Evaluation of DNA Repair Methodologies
Erin M. Siegel, Anders E. Berglund, Bridget M. Riggs, Steven A. Eschrich, Ryan M. Putney, Abidemi O. Ajidahun, Domenico Coppola, and David Shibata
- 2632** Suitability of Circulating miRNAs as Potential Prognostic Markers in Colorectal Cancer
Jonas Ristau, Jürgen Staffa, Petra Schrotz-King, Biljana Gigic, Karen W. Makar, Michael Hoffmeister, Herrmann Brenner, Alexis Ulrich, Martin Schneider, Cornelia M. Ulrich, and Nina Habermann
- 2638** Quantification of Circulating miRNAs by Droplet Digital PCR: Comparison of EvaGreen- and TaqMan-Based Chemistries
Elena Miotto, Elena Saccenti, Laura Lupini, Elisa Callegari, Massimo Negrini, and Manuela Ferracin
- 2643** Effects of Preanalytic Variables on Circulating MicroRNAs in Whole Blood
Hua Zhao, Jie Shen, Qiang Hu, Warren Davis, Leonardo Medico, Dan Wang, Li Yan, Yuqing Guo, Biao Liu, Maochun Qin, Mary Nesline, Qianqian Zhu, Song Yao, Christine B. Ambrosone, and Song Liu
- 2649** Assay Reproducibility and Interindividual Variation for 15 Serum Estrogens and Estrogen Metabolites Measured by Liquid Chromatography–Tandem Mass Spectrometry
Barbara J. Fuhrman, Xia Xu, Roni T. Falk, Cher M. Dallal, Timothy D. Veenstra, Larry K. Keefer, Barry I. Graubard, Louise A. Brinton, Regina G. Ziegler, and Gretchen L. Gierach

- 2658** Improving Power to Detect Changes in Blood miRNA Expression by Accounting for Sources of Variability in Experimental Designs
Sarah I. Daniels, Fenna C.M. Sillé, Audrey Goldbaum, Brenda Yee, Ellen F. Key, Luoping Zhang, Martyn T. Smith, and Reuben Thomas
- 2667** Measurement of Telomere Length: A New Assay Using QuantiGene Chemistry on a Luminex Platform
Muhammad G. Kibriya, Farzana Jasmine, Shantanu Roy, Habibul Ahsan, and Brandon Pierce
- 2673** Usefulness of Saliva Samples for Biomarker Studies in Radiation Research
Eileen Pernot, Elisabeth Cardis, and Christophe Badie
- 2681** SEER Cancer Registry Biospecimen Research: Yesterday and Tomorrow
Sean F. Altekruse, Gabriel E. Rosenfeld, Danielle M. Carrick, Emilee J. Pressman, Sheri D. Schully, Leah E. Mechanic, Kathleen A. Cronin, Brenda Y. Hernandez, Charles F. Lynch, Wendy Cozen, Muin J. Khoury, and Lynne T. Penberthy
- 2688** Methods for Sample Acquisition and Processing of Serial Blood and Tumor Biopsies for Multicenter Diffuse Large B-cell Lymphoma Clinical Trials
Torsten Holm Nielsen, Zuanel Diaz, Rosa Christodouloupoulos, Fredrick Charbonneau, Samia Qureshi, Caroline Rousseau, Naciba Benlimame, Errol Camlioglu, André Marc Constantin, Kathleen Klein Oros, Jan Krumsiek, Michael Crump, Ryan D. Morin, Leandro Cerchietti, Nathalie A. Johnson, Tina Petrogiannis-Halotis, Wilson H. Miller Jr, Sarit E. Assouline, and Koren K. Mann
- 2694** Establishment of the Cancer Prevention Study II Nutrition Cohort Colorectal Tissue Repository
Peter T. Campbell, Anusila Deka, Peter Briggs, Mine Cicek, Alton B. Farris, Mia M. Gaudet, Eric J. Jacobs, Christina C. Newton, Alpa V. Patel, Lauren R. Teras, Stephen N. Thibodeau, Lori Tillmans, and Susan M. Gapstur

Table of Contents

2703 DNA from Nails for Genetic Analyses in Large-Scale Epidemiologic Studies

Janneke G.F. Hogervorst, Roger W.L. Godschalk, Piet A. van den Brandt, Matty P. Weijnenberg, Bas A.J. Verhage, Leonie Jonkers, Joy Goessens, Colinda C.J.M. Simons, Joris R. Vermeesch, Frederik J. van Schooten, and Leo J. Schouten

EDITORIAL

2713 Precision Prevention of Cancer

Timothy R. Rebbeck

REVIEWS

2716 Childhood Brain Tumor Epidemiology: A Brain Tumor Epidemiology Consortium Review

Kimberly J. Johnson, Jennifer Cullen, Jill S. Barnholtz-Sloan, Quinn T. Ostrom, Chelsea E. Langer, Michelle C. Turner, Roberta McKean-Cowdin, James L. Fisher, Philip J. Lupo, Sonia Partap, Judith A. Schwartzbaum, and Michael E. Scheurer

2737 Genetic Associations in Classical Hodgkin Lymphoma: A Systematic Review and Insights into Susceptibility Mechanisms

Kushi Kushekhar, Anke van den Berg, Ilja Nolte, Bouke Hepkema, Lydia Visser, and Arjan Diepstra

RESEARCH ARTICLES

2748 An Epidemiologic Investigation of Physical Activity and Breast Cancer Risk in Africa

Ningqi Hou, Paul Ndom, Johashaphat Jombwe, Temidayo Ogundiran, Adeyinka Ademola, Imran Morhason-Bello, Oladosu Ojengbede, Antony Gakwaya, and Dezheng Huo

2757 Change in Population Prevalences of Human Papillomavirus after Initiation of Vaccination: The High-Throughput HPV Monitoring Study

Anna Söderlund-Strand, Ingrid Uhnoo, and Joakim Dillner

2765 Circulating Sex Hormones and Terminal Duct Lobular Unit Involution of the Normal Breast

Zeina G. Khodr, Mark E. Sherman, Ruth M. Pfeiffer, Gretchen L. Gierach, Louise A. Brinton, Roni T. Falk, Deesha A. Patel, Laura M. Linville, Daphne Papathomas, Susan E. Clare, Daniel W. Visscher, Carolyn Mies, Stephen M. Hewitt, Anna Maria V. Storniolo, Adrian Rosebrock, Jesus J. Caban, and Jonine D. Figueroa

2774 Intake of Toxic and Carcinogenic Volatile Organic Compounds from Secondhand Smoke in Motor Vehicles

Gideon St.Helen, Peyton Jacob III, Margaret Peng, Delia A. Dempsey, S. Katharine Hammond, and Neal L. Benowitz

2783 Diagnostic and Prognostic Value of microRNA-21 in Colorectal Cancer: An Original Study and Individual Participant Data Meta-analysis

Honghe Zhang, Peiwei Li, Haixing Ju, Martin Pesta, Vlastimil Kulda, Wenjun Jin, Mao Cai, Changbao Liu, Han Wu, Jinming Xu, Yao Ye, Guanglin Zhang, Enping Xu, Jianting Cai, Maode Lai, Dajing Xia, Jun Yang, and Yihua Wu

2793 Benzene Uptake in Hookah Smokers and Non-smokers Attending Hookah Social Events: Regulatory Implications

Nada O.F. Kassem, Noura O. Kassem, Sheila R. Jackson, Sandy Liles, Reem M. Daffa, Adam T. Zarth, Maram A. Younis, Steven G. Carmella, C. Richard Hofstetter, Dale A. Chatfield, Georg E. Matt, Stephen S. Hecht, and Melbourne F. Hovell

2810 Benign Breast Tissue Composition in Breast Cancer Patients: Association with Risk Factors, Clinical Variables, and Gene Expression

Xuezheng Sun, Rupninder Sandhu, Jonine D. Figueroa, Gretchen L. Gierach, Mark E. Sherman, and Melissa A. Troester

2819 Neighborhood Factors Associated with Time to Resolution Following an Abnormal Breast or Cervical Cancer Screening Test

Jesse J. Plascak, Adana A. Llanos, Michael L. Pennell, Rory C. Weier, and Electra D. Paskett

Table of Contents

- 2829 Interactions between Ultraviolet Light and *MC1R* and *OCA2* Variants Are Determinants of Childhood Nevus and Freckle Phenotypes**
Anna E. Barón, Nancy L. Asdigian, Victoria Gonzalez, Jenny Aalborg, Tamara Terzian, Regan A. Stiegmann, Enrique C. Torchia, Marianne Berwick, Robert P. Dellavalle, Joseph G. Morelli, Stefan T. Mokrohisky, Lori A. Crane, and Neil F. Box
- 2840 Body Mass Index, Physical Activity, and Serum Markers of Inflammation, Immunity, and Insulin Resistance**
Cari M. Kitahara, Britton Trabert, Hormuzd A. Katki, Anil K. Chaturvedi, Troy J. Kemp, Ligia A. Pinto, Steven C. Moore, Mark P. Purdue, Nicolas Wentzensen, Allan Hildesheim, and Meredith S. Shiels
- 2850 Breast Cancer Prognostic Biomarker Using Attractor Metagenes and the *FGD3-SUSD3* Metagene**
 Tai-Hsien Ou Yang, Wei-Yi Cheng, Tian Zheng, Matthew A. Maurer, and Dimitris Anastassiou
- 2857 Prevalence, Incidence, Clearance, and Associated Factors of Genital Human Papillomavirus Infection among Men: A Population-Based Cohort Study in Rural China**
Mengfei Liu, Zhonghu He, Chanyuan Zhang, Fangfang Liu, Ying Liu, Jingjing Li, Zhongyao Xu, Qiyang Wang, Dong Hang, Na Shen, Yaqi Pan, Chuanhai Guo, Hong Cai, and Yang Ke
- 2866 Urinary Prostaglandin E₂ Metabolite and Breast Cancer Risk**
Yong Cui, Xiao-Ou Shu, Yu-Tang Gao, Qiuyin Cai, Bu-Tian Ji, Hong-Lan Li, Nathaniel Rothman, Jie Wu, Gong Yang, Yong-Bing Xiang, and Wei Zheng
- 2874 Use of a Urinary Sugars Biomarker to Assess Measurement Error in Self-Reported Sugars Intake in the Nutrition and Physical Activity Assessment Study (NPAAS)**
Natasha Tasevska, Douglas Midthune, Lesley F. Tinker, Nancy Potischman, Johanna W. Lampe, Marian L. Neuhouser, Jeannette M. Beasley, Linda Van Horn, Ross L. Prentice, and Victor Kipnis
- 2884 The Expression of Four Genes as a Prognostic Classifier for Stage I Lung Adenocarcinoma in 12 Independent Cohorts**
Hirokazu Okayama, Aaron J. Schetter, Teruhide Ishigame, Ana I. Robles, Takashi Kohno, Jun Yokota, Seiichi Takenoshita, and Curtis C. Harris
- 2895 Retention of Black and White Participants in the Selenium and Vitamin E Cancer Prevention Trial (SWOG-Coordinated Intergroup Study S0000)**
Kathryn B. Arnold, John A. Hermos, Karen B. Anderson, Lori Minasian, Catherine M. Tangen, Jeffrey F. Probstfield, and Elise D. Cook
- 2906 Biomarkers of Exposure among U.S. Cigar Smokers: An Analysis of 1999–2012 National Health and Nutrition Examination Survey (NHANES) Data**
Jiping Chen, Anna Kettermann, Brian L. Rostron, and Hannah R. Day
- 2916 Individual Differences in Aversion to Ambiguity Regarding Medical Tests and Treatments: Association with Cancer Screening Cognitions**
Paul K.J. Han, Andrew E. Williams, Amy Haskins, Caitlin Gutheil, F. Lee Lucas, William M.P. Klein, and Kathleen M. Mazor
- 2924 Cancer Incidence and Mortality during the Intervention and Postintervention Periods of the Women's Health Initiative Dietary Modification Trial**
Cynthia A. Thomson, Linda Van Horn, Bette J. Caan, Aaron K. Aragaki, Rowan T. Chlebowski, JoAnn E. Manson, Thomas E. Rohan, Lesley F. Tinker, Lewis H. Kuller, Lifang Hou, Dorothy S. Lane, Karen C. Johnson, Mara Z. Vitolins, and Ross L. Prentice
- 2936 Obesity Increases the Risk for High-Grade Prostate Cancer: Results from the REDUCE Study**
Adriana C. Vidal, Lauren E. Howard, Daniel M. Moreira, Ramiro Castro-Santamaria, Gerald L. Andriole Jr, and Stephen J. Freedland
- 2943 Alcohol Consumption in Relation to Plasma Sex Hormones, Prolactin, and Sex Hormone-Binding Globulin in Premenopausal Women**
Kelly A. Hirko, Donna Spiegelman, Walter C. Willett, Susan E. Hankinson, and A. Heather Eliassen

SHORT COMMUNICATIONS

- 2954 Prevalence of Human Papillomavirus in Cancer of the Oropharynx by Gender**
Jean-Damien Combes, Alyce A. Chen, and Silvia Franceschi

Table of Contents

- 2959** **Sexual Transmission of Oral Human Papillomavirus Infection among Men**
Kristina R. Dahlstrom, Ann N. Burchell, Agnihotram V. Ramanakumar, Allita Rodrigues, Pierre-Paul Tellier, James Hanley, François Coutlée, and Eduardo L. Franco
- 2965** **Programmed Cell Death 1 (PD-1) and Its Ligand (PD-L1) in Common Cancers and Their Correlation with Molecular Cancer Type**
Zoran Gatalica, Carrie Snyder, Todd Maney, Anatole Ghazalpour, Daniel A. Holterman, Nianqing Xiao, Peggy Overberg, Inga Rose, Gargi D. Basu, Semir Vranic, Henry T. Lynch, Daniel D. Von Hoff, and Omid Hamid
- 2977** **Pooled Analysis of Mitochondrial DNA Copy Number and Lung Cancer Risk in Three Prospective Studies**
Christopher Kim, Bryan A. Bassig, Wei Jie Seow, Wei Hu, Mark P. Purdue, Xiao-Ou Shu, Wen-Yi Huang, Chin-San Liu, Wen-Ling Cheng, Ta-Tsung Lin, Yong-Bing Xiang, Bu-Tian Ji, Yu-Tang Gao, Wong-Ho Chow, Satu Männistö, Stephanie J. Weinstein, Demetrius Albanes, Wei Zheng, H. Dean Hosgood, Unhee Lim, Nathaniel Rothman, and Qing Lan
- 2981** **Acknowledgment to Reviewers**

NULL RESULTS IN BRIEF

- 2971** **No Evidence of Gene–Calcium Interactions from Genome-Wide Analysis of Colorectal Cancer Risk**
Mengmeng Du, Xuehong Zhang, Michael Hoffmeister, Robert E. Schoen, John A. Baron, Sonja I. Berndt, Hermann Brenner, Christopher S. Carlson, Graham Casey, Andrew T. Chan, Keith R. Curtis, David Duggan, W. James Gauderman, Edward L. Giovannucci, Jian Gong, Tabitha A. Harrison, Richard B. Hayes, Brian E. Henderson, John L. Hopper, Li Hsu, Thomas J. Hudson, Carolyn M. Hutter, Mark A. Jenkins, Shuo Jiao, Jonathan M. Kocarnik, Laurence N. Kolonel, Loic Le Marchand, Yi Lin, Polly A. Newcomb, Anja Rudolph, Daniela Seminara, Mark D. Thornquist, Cornelia M. Ulrich, Emily White, Kana Wu, Brent W. Zanke, Peter T. Campbell, Martha L. Slattery, Ulrike Peters, Jenny Chang-Claude, and John D. Potter, on behalf of the Colon Cancer Family Registry and Genetics and Epidemiology of Colorectal Cancer Consortium

 AC icon indicates Author Choice

For more information please visit www.aacrjournals.org

Cancer Epidemiology, Biomarkers & Prevention

AACR American Association
for Cancer Research

23 (12)

Cancer Epidemiol Biomarkers Prev 2014;23:2619-2984.

Updated version Access the most recent version of this article at:
<http://cebp.aacrjournals.org/content/23/12>

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.

Permissions To request permission to re-use all or part of this article, use this link
<http://cebp.aacrjournals.org/content/23/12>.
Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.