Cancer Prevention Research

Table of Contents

AACR American Association for Cancer Research

February 2016 • Volume 9 • Number 2

PERSPECTIVE

119 **The Case for a Pre-Cancer Genome Atlas (PCGA)**
Joshua D. Campbell, Sarah A. Mazzilli, Mary E. Reid, Samjot S. Dhillon, Suso Platero, Jennifer Beane, and Avrum E. Spira

EDITORIAL

125 **When "Effective" Prevention Agents Fail to Elicit Anticipated Effects: Challenges in Trial Design**
Kenneth Y. Tsai and Ernest T. Hawk
See related article, p. 128

RESEARCH ARTICLES

128 **Phase IIB Randomized Study of Topical Difluoromethylornithine and Topical Diclofenac on Sun-Damaged Skin of the Forearm**
Joanne M. Jeter, Clara Curiel-Lewandrowski, Steven P. Stratton, Paul B. Myrdal, James A. Warneke, Janine G. Einspahr, Hubert G. Bartels, Michael Yozwiak, Yira Bermudez, Chengcheng Hu, Peter Bartels, and David S. Alberts
See related article, p. 125

135 **Serum Antibodies to HPV16 Early Proteins Warrant Investigation as Potential Biomarkers for Risk Stratification and Recurrence of HPV-Associated Oropharyngeal Cancer**
Carole Fakhry, Jesse R. Qualliotine, Zhe Zhang, Nishant Agrawal, Daria A. Gaykalova, Justin A. Bishop, Rathan M. Subramaniam, Wayne M. Koch, Christine H. Chung, David W. Eisele, Joseph Califano, and Raphael P. Viscidi

142 **Double-Blind, Randomized Trial of Alternative Letrozole Dosing Regimens in Postmenopausal Women with Increased Breast Cancer Risk**
Ana Maria López, Sandhya Pruthi, Judy C. Boughey, Marjorie Perloff, Chiu-Hsieh Hsu, Julie E. Lang, Michele Ley, Denise Frank, Josephine A. Taverna, and H-H. Sherry Chow

149 **Relationship of Terminal Duct Lobular Unit Involution of the Breast with Area and Volume Mammographic Densities**
Gretchen L. Gierach, Deesha A. Patel, Ruth M. Pfeiffer, Jonine D. Figueroa, Laura Linville, Daphne Papathomas, Jason M. Johnson, Rachael E. Chicoine, Sally D. Herschorn, John A. Shepherd, Jeff Wang, Serghei Malkov, Pamela M. Vacek, Donald L. Weaver, Bo Fan, Amir Pasha Mahmoudzadeh, Maya Palakal, Jackie Xiang, Hannah Oh, Hisani N. Horne, Brian L. Sprague, Stephen M. Hewitt, Louise A. Brinton, and Mark E. Sherman

159 **Suppression of Proinflammatory and Prosurvival Biomarkers in Oral Cancer Patients Consuming a Black Raspberry Phytochemical-Rich Troche**
Thomas J. Knobloch, Lana K. Uhrig, Dennis K. Pearl, Bruce C. Casto, Blake M. Warner, Steven K. Clinton, Christine L. Sardo-Molmenti, Jeanette M. Ferguson, Brett T. Daly, Kenneth Riedl, Steven J. Schwartz, Yael Vodovotz, Anthony J. Buchta Sr, David E. Schuller, Enver Ozer, Amit Agrawal, and Christopher M. Weghorst

172 **The Doylestown Algorithm: A Test to Improve the Performance of AFP in the Detection of Hepatocellular Carcinoma**
Mengjun Wang, Karthik Devarajan, Amit G. Singal, Jorge A. Marrero, Jianliang Dai, Ziding Feng, Jo Ann S. Rinaudo, Sudhir Srivastava, Alison Evans, Hie-Won Hann, Yinzhi Lai, Hushan Yang, Timothy M. Block, and Anand Mehta

180 **Unconjugated Bilirubin Is a Novel Prognostic Biomarker for Nasopharyngeal Carcinoma and Inhibits Its Metastasis via Antioxidation Activity**
Cheng-Cheng Deng, Miao Xu, Jing Li, Xiao-Lin Luo, Yu-Jia Zhu, Rou Jiang, Meng-Xia Zhang, Jin-Ju Lei, Yi-Fan Lian, Xiong Zou, Rui You, Li-Zhen Chen, Qi-Sheng Feng, Jin-Xin Bei, Ming-Yuan Chen, and Yi-Xin Zeng

Table of Contents

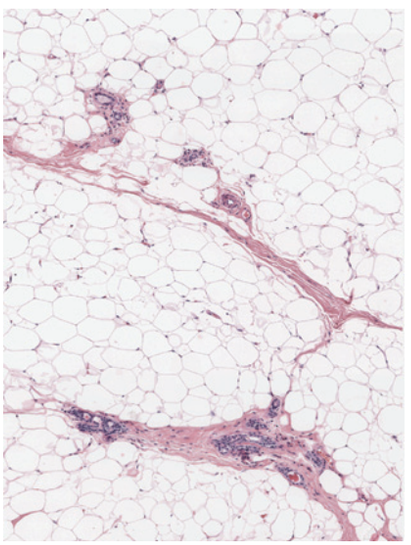
189 **Phase II Drug-Metabolizing Polymorphisms and Smoking Predict Recurrence of Non–Muscle-Invasive Bladder Cancer: A Gene–Smoking Interaction**
Louis Lacombe, Vincent Fradet, Éric Lévesque, Frédéric Pouliot, Hélène Larue, Alain Bergeron, Hélène Hovington, André Caron, Molière Nguile-Makao, Mario Harvey, Yves Fradet, and Chantal Guillemette

196 **Inflammatory Marker Changes in Postmenopausal Women after a Year-long Exercise Intervention Comparing High Versus Moderate Volumes**
Christine M. Friedenreich, Rachel O'Reilly, Eileen Shaw, Frank Z. Stanczyk, Yutaka Yasui, Darren R. Brenner, and Kerry S. Courneya

AC icon indicates Author Choice
For more information please visit www.aacrjournals.org

ABOUT THE COVER

A digitized image of a hematoxylin and eosin-stained breast tissue section represents a benign diagnostic breast biopsy specimen largely comprised of adipose tissue and with marked terminal duct lobular unit (TDLU) involution. TDLUs are the structures responsible for lactation and are also the histologic source of most breast cancers. TDLU involution, a normal process of aging, is characterized by a reduction in the number and size of TDLUs and their secretory substructures called acini. In this image, rare ducts and equivocal acini are present, but well-developed TDLUs are not identified. Involution of TDLUs has been associated with lower mammographic density and reduced breast cancer risk. See the article by Gierach and colleagues (beginning on page 149) for more information.



Cancer Prevention Research

9 (2)

Cancer Prev Res 2016;9:119-203.