Contents

PERSPECTIVE

1947  Molecular Biomarkers of Risk in Premalignancy and Breast Cancer Prevention
D. Craig Allred
Perspective on Radisky et al., p. 1953

RESEARCH ARTICLES

1953  p16INK4a Expression and Breast Cancer Risk in Women with Atypical Hyperplasia
Derek C. Radisky, Marta Santisteban, Hal K. Berman, Mona L. Gauthier, Marlene H. Frost, Carol A. Reynolds, Robert A. Vierkant, V. Shane Pankratz, Daniel W. Visscher, Thea D. Tlsty, and Lynn C. Hartmann
See Perspective p. 1947

1961  Mechanistic Contribution of Ubiquitous 15-Lipoxygenase-1 Expression Loss in Cancer Cells to Terminal Cell Differentiation Evasion
Micheline J. Moussalli, Yuanqing Wu, Xiangsheng Zuo, Xiu L. Yang, Ignacio Ivan Wistuba, Maria G. Raso, Jeffrey S. Morris, Jessica L. Bowser, John D. Minna, Reuben Lotan, and Imad Shureiqi

1973  Telomere Shortening Alters the Kinetics of the DNA Damage Response after Ionizing Radiation in Human Cells
Rachid Drissi, Jing Wu, Yafang Hu, Carol Bockhold, and Jeffrey S. Dome

1982  Revisit of Field Cancerization in Squamous Cell Carcinoma of Upper Aerodigestive Tract: Better Risk Assessment with Epigenetic Markers
Yi-Chia Lee, Hsiu-Po Wang, Xiangsheng Zuo, Xiu L. Yang, Jang-Ming Lee, Han-Mo Chiu, Jaw-Town Lin, Satoshi Yamashita, Daiji Oka, Naoko Watanabe, Yasunori Matsuda, Toshikazu Ushijima, and Ming-Shiang Wu

1993  Changes in Breast Density and Circulating Estrogens in Postmenopausal Women Receiving Adjuvant Anastrozole

2002  Dietary Energy Balance Modulates Prostate Cancer Progression in Hi-Myc Mice
Jorge Blando, Tricia Moore, Stephen Hursting, Guita Ya, Achinto Saha, Linda Beltran, Jianjun Shen, John Repass, Sara Strom, and John DiGiovanni

2015  Chemoprevention of Colon and Small Intestinal Tumorigenesis in APCMin/+ Mice by Licofelone, a Novel Dual 5-LOX/COX Inhibitor: Potential Implications for Human Colon Cancer Prevention
Aftaf Mohammed, Naveena B. Janakiram, Qian Li, Chang-In Choi, Yuting Zhang, Oman E. Steele, and Chinthapally V. Rao

2027  Nonsteroidal Anti-inflammatory Drugs and Glioma in the NIH-AARP Diet and Health Study Cohort
Sarah E. Daugherty, Steven C. Moore, Ruth M. Pfeiffer, Peter D. Inskip, Yiyoug Park, Albert Hellenbeck, and Preetha Rajaraman

2035  Alcohol Intake and Colorectal Cancer Risk by Molecularly Defined Subtypes in a Prospective Study of Older Women
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2044</td>
<td>The Impact of Common Genetic Variations in Genes of the Sex Hormone Metabolic Pathways on Steroid Hormone Levels and Prostate Cancer Aggressiveness</td>
<td>Tong Sun, William K. Oh, Susanna Jacobus, Meredith Regan, Mark Pomerantz, Matthew L. Freedman, Gwo-Shu Mary Lee, and Philip W. Kantoff</td>
</tr>
<tr>
<td>2062</td>
<td>Phase II Prospective Randomized Trial of a Low-Fat Diet with Fish Oil Supplementation in Men Undergoing Radical Prostatectomy</td>
<td>William J. Aronson, Naoko Kobayashi, R. James Barnard, Susanne Henning, Min Huang, Patricia M. Jardack, Bingrong Liu, Ashley Gray, Junxiang Wan, Ramdev Konijeti, Stephen J. Freedland, Brandon Castor, David Heber, David Elashoff, Jonathan Said, Pinchas Cohen, and Colette Galet</td>
</tr>
<tr>
<td>2072</td>
<td>Variants Downstream of the Ornithine Decarboxylase Gene Influence Risk of Colorectal Adenoma and Aspirin Chemoprevention</td>
<td>Elizabeth L. Barry, Leila A. Mott, Robert S. Sandler, Dennis J. Ahnen, and John A. Baron</td>
</tr>
</tbody>
</table>
ABOUT THE COVER

The cover image is a photomicrograph (200X magnification) of mouse skin stained with antibody to activating transcription factor 6 alpha (ATF6α; red). Nuclei were counterstained with 4',6-diamidino-2-phenylindole (DAPI; blue). The color images were taken separately using an Olympus BX 51 Fluorescent microscope and then merged. When unfolded protein response (UPR) is activated, ATF6α translocates from endoplasmic reticulum (ER) membrane to the Golgi apparatus, where it undergoes cleavage by site-1 protease (S1P) and S2P. Cleaved ATF6α migrates to the nucleus (violet, reflecting its overlay with DAPI blue staining) and induces transcription of UPR target genes. New work reported in this issue of the journal found that sub-chronic arsenic exposure activated reactive oxygen species (ROS)-dependent UPR signaling pathways (including the ATF6α pathway), which enhanced inflammation in murine skin. UPR signaling is under intensive investigation in inflammatory diseases and cancers. See article by Li et al. (beginning on page 2101) for more information.
Cancer Prevention Research

4 (12)


<table>
<thead>
<tr>
<th>Updated version</th>
<th>Access the most recent version of this article at: <a href="http://cancerpreventionresearch.aacrjournals.org/content/4/12">http://cancerpreventionresearch.aacrjournals.org/content/4/12</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail alerts</td>
<td>Sign up to receive free email-alerts related to this article or journal.</td>
</tr>
<tr>
<td>Reprints and Subscriptions</td>
<td>To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at <a href="mailto:pubs@aacr.org">pubs@aacr.org</a>.</td>
</tr>
<tr>
<td>Permissions</td>
<td>To request permission to re-use all or part of this article, contact the AACR Publications Department at <a href="mailto:permissions@aacr.org">permissions@aacr.org</a>.</td>
</tr>
</tbody>
</table>