

## 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 | **p16<sup>INK4a</sup> 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, Chen-Ping Wang, Jenq-Yuh Ko, Jang-Ming Lee, Han-Mo Chiu, Jaw-Town Lin, Satoshi Yamashita, Daiji Oka, Naoko Watanabe, Yasunori Matsuda, Toshikazu Ushijima, and Ming-Shiang Wu

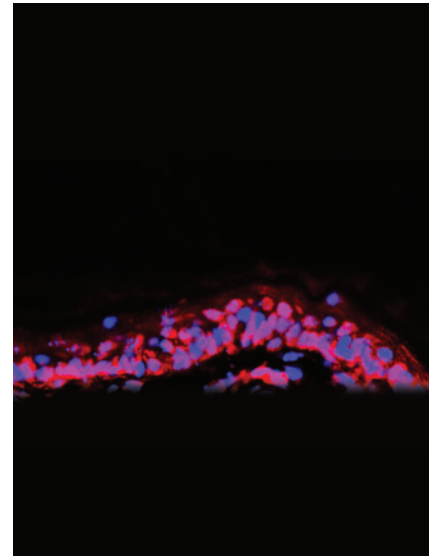
- 1993 | **Changes in Breast Density and Circulating Estrogens in Postmenopausal Women Receiving Adjuvant Anastrozole**  
Tatiana M. Prowell, Amanda L. Blackford, Celia Byrne, Nagi F. Khouri, Mitchell Dowsett, Elizabeth Folkerd, Karineh S. Tarpinian, Pendleton P. Powers, Laurie A. Wright, Michele G. Donehower, Stacie C. Jeter, Deborah K. Armstrong, Leisha A. Emens, John H. Fetting, Antonio C. Wolff, Elizabeth Garrett-Mayer, Todd C. Skaar, Nancy E. Davidson, and Vered Stearns
- 2002 | **Dietary Energy Balance Modulates Prostate Cancer Progression in Hi-Myc Mice**  
Jorge Blando, Tricia Moore, Stephen Hursting, Guiyu Jiang, Achinto Saha, Linda Beltran, Jianjun Shen, John Repass, Sara Strom, and John DiGiovanni
- 2015 | **Chemoprevention of Colon and Small Intestinal Tumorigenesis in APC<sup>Min/+</sup> Mice by Licofelone, a Novel Dual 5-LOX/COX Inhibitor: Potential Implications for Human Colon Cancer Prevention**  
Altat Mohammed, Naveena B. Janakiram, Qian Li, Chang-In Choi, Yuting Zhang, Vernon E. Steele, and Chinthalapally 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, Yikyung Park, Albert Hollenbeck, and Preetha Rajaraman
- 2035 | **Alcohol Intake and Colorectal Cancer Risk by Molecularly Defined Subtypes in a Prospective Study of Older Women**  
Anthony A. Razzak, Amy S. Oxentenko, Robert A. Vierkant, Lori S. Tillmans, Alice H. Wang, Daniel J. Weisenberger, Peter W. Laird, Charles F. Lynch, Kristin E. Anderson, Amy J. French, Robert W. Haile, Lisa J. Harnack, Susan L. Slager, Thomas C. Smyrk, Stephen N. Thibodeau, James R. Cerhan, and Paul J. Limburg

2044	<p><b>The Impact of Common Genetic Variations in Genes of the Sex Hormone Metabolic Pathways on Steroid Hormone Levels and Prostate Cancer Aggressiveness</b> Tong Sun, William K. Oh, Susanna Jacobus, Meredith Regan, Mark Pomerantz, Matthew L. Freedman, Gwo-Shu Mary Lee, and Philip W. Kantoff</p>	2092	<p><b>Possible Role of Visfatin in Hepatoma Progression and the Effects of Branched-Chain Amino Acids on Visfatin-Induced Proliferation in Human Hepatoma Cells</b> Soranobu Ninomiya, Masahito Shimizu, Kenji Imai, Koji Takai, Makoto Shiraki, Takeshi Hara, Hisashi Tsurumi, Sonoko Ishizaki, and Hisataka Moriwaki</p>
2051	<p><b>The Histone Demethylase JMJD2B Plays an Essential Role in Human Carcinogenesis through Positive Regulation of Cyclin-Dependent Kinase 6</b> Gouji Toyokawa, Hyun-Soo Cho, Yukiko Iwai, Masanori Yoshimatsu, Masashi Takawa, Shinya Hayami, Kazuhiro Maejima, Noriaki Shimizu, Hirotooshi Tanaka, Tatsuhiko Tsunoda, Helen I. Field, John D. Kelly, David E. Neal, Bruce A.J. Ponder, Yoshihiko Maehara, Yusuke Nakamura, and Ryuji Hamamoto</p>	2101	<p><b>Unfolded Protein Response Signaling and MAP Kinase Pathways Underlie Pathogenesis of Arsenic-Induced Cutaneous Inflammation</b> Changzhao Li, Jianmin Xu, Fugui Li, Sandeep C. Chaudhary, Zhiping Weng, Jianming Wen, Craig A. Elmets, Habibul Ahsan, and Mohammad Athar</p>
2062	<p><b>Phase II Prospective Randomized Trial of a Low-Fat Diet with Fish Oil Supplementation in Men Undergoing Radical Prostatectomy</b> 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</p>	2110	<p><b>Egg, Red Meat, and Poultry Intake and Risk of Lethal Prostate Cancer in the Prostate-Specific Antigen-Era: Incidence and Survival</b> Erin L. Richman, Stacey A. Kenfield, Meir J. Stampfer, Edward L. Giovannucci, and June M. Chan</p>
2072	<p><b>Variants Downstream of the Ornithine Decarboxylase Gene Influence Risk of Colorectal Adenoma and Aspirin Chemoprevention</b> Elizabeth L. Barry, Leila A. Mott, Robert S. Sandler, Dennis J. Ahnen, and John A. Baron</p>	2122	<p><b>Bitter Melon Extract Impairs Prostate Cancer Cell-Cycle Progression and Delays Prostatic Intraepithelial Neoplasia in TRAMP Model</b> Peng Ru, Robert Steele, Pratibha V. Nerurkar, Nancy Phillips, and Ratna B. Ray</p>
2083	<p><b>Cryptotanshinone Inhibits Lymphatic Endothelial Cell Tube Formation by Suppressing VEGFR-3/ERK and Small GTPase Pathways</b> Yan Luo, Wenxing Chen, Hongyu Zhou, Lei Liu, Tao Shen, J. Steven Alexander, Shizhong Zheng, Yin Lu, and Shile Huang</p>	2131	<p><b>Acknowledgment to Reviewers</b></p>

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## ABOUT THE COVER

The cover image is a photomicrograph (200X magnification) of mouse skin stained with antibody to activating transcription factor 6 alpha (ATF6 $\alpha$ ; 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, ATF6 $\alpha$  translocates from endoplasmic reticulum (ER) membrane to the Golgi apparatus, where it undergoes cleavage by site-1 protease (S1P) and S2P. Cleaved ATF6 $\alpha$  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 ATF6 $\alpha$  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.



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*Cancer Prev Res* 2011;4:1947-2132.

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