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

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

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

Revisit of Field Cancerization in Squamous Cell Carcinoma of Upper Aerodigestive Tract: Better Risk Assessment with Epigenetic Markers
Yi-Chia Lee, Hsiu-Po Wang, Chien-Ming Lee, Han-Mo Chiu, Jaw-Town Lin, Satoshi Yamashita, Daiji Oka, Naoko Watanabe, Yasunori Matsuda, Toshikazu Ushijima, and Ming-Shiang Wu
2044 The Impact of Common Genetic Variations in Genes of the Sex Hormone Metabolic Pathways on Steroid Hormone Levels and Prostate Cancer Aggressiveness Tong Sun, William K. Oh, Susanna Jacobus, Meredith Regan, Mark Pomerantz, Matthew L. Freedman, Gwo-Shu Mary Lee, and Philip W. Kantoff


2062 Phase II Prospective Randomized Trial of a Low-Fat Diet with Fish Oil Supplementation in Men Undergoing Radical Prostatectomy 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

2072 Variants Downstream of the Ornithine Decarboxylase Gene Influence Risk of Colorectal Adenoma and Aspirin Chemoprevention Elizabeth L. Barry, Leila A. Mott, Robert S. Sandler, Dennis J. Ahnen, and John A. Baron


2092 Possible Role of Visfatin in Hepatoma Progression and the Effects of Branched-Chain Amino Acids on Visfatin-Induced Proliferation in Human Hepatoma Cells Soranobu Ninomiya, Masahito Shimizu, Kenji Imai, Koji Takai, Makoto Shiraki, Takeshi Hara, Hisashi Tsurumi, Sonoko Ishizaki, and Hisataka Moriwaki

2101 Unfolded Protein Response Signaling and MAP Kinase Pathways Underlie Pathogenesis of Arsenic-Induced Cutaneous Inflammation Changzhao Li, Jianmin Xu, Fugui Li, Sandeep C. Chaudhary, Zhiping Weng, Jianming Wen, Craig A. Elmets, Habibul Ahsan, and Mohammad Athar


2122 Bitter Melon Extract Impairs Prostate Cancer Cell-Cycle Progression and Delays Prostatic Intraepithelial Neoplasia in TRAMP Model Peng Ru, Robert Steele, Pratibha V. Nerurkar, Nancy Phillips, and Ratna B. Ray

2131 Acknowledgment to Reviewers
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.