Contents

PERSPECTIVES

255  Upper Airway Gene Expression in Smokers: The Mouth as a “Window to the Soul” of Lung Carcinogenesis?
Avrum Spira
See article p. 266

259  Obesity, Endogenous Hormone Metabolism, and Prostate Cancer Risk: A Conundrum of “Highs” and “Lows”
Rudolf Kaaks and Pär Stattin
See article p. 279

263  Adaptor Proteins as Targets for Cancer Prevention
Douglas Yee
See article p. 290

RESEARCH ARTICLES

266  Effects of Cigarette Smoke on the Human Oral Mucosal Transcriptome
Jay O. Boyle, Zeynep H. Gümüş, Ashutosh Kacker, Vishal L. Choksi, Jennifer M. Bocker, Xi Kathy Zhou, Rhonda K. Yantiss, Duncan B. Hughes, Baoheng Du, Benjamin L. Judson, Kota Subbaramaiah, and Andrew J. Dannenberg
See perspective p. 255

279  Finasteride Modifies the Relation between Serum C-Peptide and Prostate Cancer Risk: Results from the Prostate Cancer Prevention Trial
See perspective p. 259

290  Loss of Inhibitory Insulin Receptor Substrate-1 Phosphorylation Is an Early Event in Mammalian Target of Rapamycin–Dependent Endometrial Hyperplasia and Carcinoma
Adrienne S. McCampbell, Heather A. Harris, Judy S. Crabtree, Richard C. Winneker, Cheryl L. Walker, and Russell R. Broaddus
See perspective p. 263

Gene Expression Patterns in the Human Breast after Pregnancy
Szilard Asztalos, Peter H. Gann, Meghan K. Hayes, Larisa Nonn, Craig A. Beam, Yang Dai, Elizabeth L. Wiley, and Debra A. Tonetti

Parity-Induced Decrease in Systemic Growth Hormone Alters Mammary Gland Signaling: A Potential Role in Pregnancy Protection from Breast Cancer
Robert K. Dearth, David A. Delgado, Jill K. Hiney, Thushangi Pathiraja, Steffi Oesterreich, Dan Medina, W. Les Dees, and Adrian V. Lee

The Impact of Fish Oil on the Chemopreventive Efficacy of Tamoxifen against Development of N-Methyl-N-Nitrosourea–Induced Rat Mammary Carcinogenesis

Differential Inhibition of Protein Translation Machinery by Curcumin in Normal, Immortalized, and Malignant Oral Epithelial Cells
Nitin Chakravarti, Humam Kadara, Do-Jun Yoon, Jerry W. Shay, Jeffrey N. Myers, Dafna Lotan, Nahum Sonenberg, and Reuben Lotan

American Ginseng Suppresses Colitis through p53-Mediated Apoptosis of Inflammatory Cells
Yu Jin, Anne B. Hofseth, Xiangli Cui, Anthony J. Windust, Deepak Poudyal, Alex A. Chumanevich, Lydia E. Matise, Narendra P. Singh, Mitzi Nagarkatti, Prakash S. Nagarkatti, and Lorne J. Hofseth

Chronic Cyclooxygenase-2 Inhibition Promotes Myofibroblast-Associated Intestinal Fibrosis
Jennifer S. Davids, Adelaide M. Carothers, Beatrice C. Damas, and Monica M. Bertagnolli

Elevated Phosphate Activates N-ras and Promotes Cell Transformation and Skin Tumorigenesis
Corinne E. Camalier, Matthew R. Young, Gerd Bobe, Christine M. Perella, Nancy H. Colburn, and George R. Beck, Jr.
ABOUT THE COVER

The cover image shows a direct interaction network of genes that are potentially important in mediating the effects of tobacco smoke in human oral mucosa. The color red reflects a higher level of gene expression and green reflects a lower level of gene expression in smokers versus in never smokers; the increasing intensities of color signify the magnitude of the expression change. Genes with no significant expression change (white) are shown because they potentially contribute to the effects of smoking and are involved in signaling pathways perturbed in the oral mucosa of smokers. Network analysis identified specific molecular interactions, hubs, and key transcription regulators. Computational biology, including molecular network mapping as represented on this cover, is a strategy to identify potential targets for chemopreventive agents. See articles by Boyle, Gümiş, et al. (beginning on page 266) and Spira (beginning on page 255) for more information.