Editorial

Cancer Epidemiology, Biomarkers & Prevention and Cancer Prevention Research: Two Journals, a Common Goal. Timothy R. Rebbeck, Powel H. Brown, Ernest T. Hawk, Caryn Lerman, Electra D. Paskett, Thomas A. Sellers, and Scott M. Lippman for the CEBP Senior Editors and CaPR Deputy and Senior Editors ............................................................... 393

Commentary

The Field of Tissue Injury in the Lung and Airway. Katrina Steiling, John Ryan, Jerome S. Brody and Avrum Spira ........................................................................................................................................... 396

Perspectives

Chromosomal Deletions and Progression of Premalignant Lesions: Less Is More. Ignacio I. Wistuba and Matthew Meyerson ......................................................................................................................... 404

Kava, a Tonic for Relieving the Irrational Development of Natural Preventive Agents. Rajesh Agarwal and Gagan Deep ......................................................................................................................................... 409

Research Articles

Single Nucleotide Polymorphism–Based Genome-Wide Chromosome Copy Change, Loss of Heterozygosity, and Aneuploidy in Barrett’s Esophagus Neoplastic Progression. Xiaohong Li, Patricia C. Galipeau, Carissa A. Sanchez, Patricia L. Blount, Carlo C. Maley, Jessica Arnaudo, Daniel A. Peiffer, Dmytry Pokholok, Kevin L. Gunderson and Brian J. Reid .................................................................................................................. 413

Multiple Aberrations of Chromosome 3p Detected in Oral Premalignant Lesions. Ivy F.L. Tsui, Miriam P. Rosin, Lewei Zhang, Raymond T. Ng and Wan L. Lam .................................................................................................................. 424

Chemopreventive Effect of Kava on 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone plus Benzo[a]pyrene–Induced Lung Tumorigenesis in A/J Mice. Thomas E. Johnson, Fekadu Kassie, M. Gerard O’Sullivan, Mesfin Negia, Timothy E. Hanson, Pramod Upadhyaya, Peter P. Ruvolo, Stephen S. Hecht and Chengguo Xing .................................................................................................................. 430

Effects of the Kava Chalcone Flavokawain A Differ in Bladder Cancer Cells with Wild-type versus Mutant p53. Yaxiong Tang, Anne R. Simoneau, Jun Xie, Babbak Shahandeh and Xiaolin Zi ........ 439

The Dietary Flavones Apigenin and Luteolin Impair Smooth Muscle Cell Migration and VEGF Expression through Inhibition of PDGFR- β Phosphorylation. Sylvie Lamy, Valérie Bédard, David Labbé, Hervé Sarretelet, Chantal Barthomeuf, Denis Gingras and Richard Béliveau .................................................................................................................. 452

Genetic Variations in MicroRNA-Related Genes Are Novel Susceptibility Loci for Esophageal Cancer Risk. Yuanqing Ye, Kenneth K. Wang, Jian Gu, Hushan Yang, Jie Lin, Jaffer A. Ajani and Xifeng Wu .................................................................................................................. 460


About the Cover

In the foreground are photographic images of clinical Barrett's esophagus (BE; top; photo courtesy of Brian J. Reid, M.D., Ph.D.) and of the histology of Barrett's esophagus (bottom; image courtesy of Elizabeth Montgomery, M.D.). BE involves early genome-wide chromosomal deletions that progress and increase in size with increasing histopathological severity; the number of larger copy losses is significantly higher in advanced BE and esophageal adenocarcinoma compared with that in early BE lesions. See articles by Wistuba and Meyerson (beginning on page 404 and Li et al. (beginning on page 413) for more information. The background image is an Illumina BeadChip scan depicting sequence variations in several microRNA-related genes. Genetic variations within microRNAs and their processing pathways are important to esophageal cancer risk, which dramatically increases with an increasing number of variants. Genetic variants in the normal esophagus progress through microRNA pathway changes to esophageal adenocarcinoma, presumably progressing through Barrett's esophagus prior to cancer. These findings may lead to the development of tools for identifying high-risk patients and ultimately to better prevention. See article by Ye et al. (beginning on page 460) for more information.
## Material

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