Contents

PERSPECTIVE

797 The Epidermal Growth Factor Receptor Axis: Support for a New Target for Oral Premalignancy
Miriam P. Rosin and Joseph A. Califano
See article p. 800

RESEARCH ARTICLES

800 Epidermal Growth Factor Receptor Expression and Gene Copy Number in the Risk of Oral Cancer
See perspective p. 797

810 Serum Cytokine Analysis in a Positive Chemoprevention Trial: Selenium, Interleukin-2, and an Association with Squamous Preneoplastic Disease

818 A Novel Mechanism of Indole-3-Carbinol Effects on Breast Carcinogenesis Involves Induction of Cdc25A Degradation
Yongsheng Wu, Xiaolong Feng, Yucui Jin, Zhaojia Wu, William Hankey, Carolyn Paisie, Lei Li, Fengqian Liu, Sanford H. Barsky, Weiwei Zhang, Ramesh Ganju, and Xianghong Zou

829 Profiling Lipoygenase Metabolism in Specific Steps of Colorectal Tumorigenesis

839 One Year Recurrence of Aberrant Crypt Foci
Paul F. Pinsky, James Fleshman, Matt Mutch, Christopher Rall, Aline Charabaty, David Seligson, Sarah Dry, Asad Umar, and Robert E. Schoen

844 Optical Measurement of Rectal Microvasculature as an Adjunct to Flexible Sigmoidoscopy: Gender-Specific Implications
Hemant K. Roy, Andrew J. Gomes, Sarah Ruderman, Laura K. Bianchi, Michael J. Goldberg, Valentina Stoyneva, Jeremy D. Rogers, Vladimir Turzhitsky, Young Kim, Eugene Yen, Mohammed Jameel, Andrej Bogojevic, and Vadim Backman

Meat Processing and Colon Carcinogenesis: Cooked, Nitrite-Treated, and Oxidized High-Heme Cured Meat Promotes Mucin-Depleted Foci in Rats
Raphaëlle L. Santarelli, Jean-Luc Vendeuvre, Nathalie Naud, Sylviane Taché, Françoise Guéraud, Michelle Viau, Claude Genot, Denis E. Corpet, and Fabrice H.F. Pierre

Meat Consumption, Nonsteroidal Anti-Inflammatory Drug Use, and Mortality among Colorectal Cancer Patients in the California Teachers Study
Jason A. Zell, Argyrios Ziogas, Leslie Bernstein, Christina A. Clarke, Dennis Deapen, Joan A. Largent, Susan L. Neuhausen, Daniel O. Stram, Giske Urisn, and Hoda Anton-Culver

Quercetin Potentiates UBV-Induced c-Fos Expression: Implications for Its Use as a Chemopreventive Agent
Erik R. Olson, Tanja Melton, Sally E. Dickinson, Zigang Dong, David S. Alberts, and G. Tim Bowden

A Novel Sulindac Derivative Lacking Cyclooxygenase-Inhibitory Activities Suppresses Carcinogenesis in the Transgenic Adenocarcinoma of Mouse Prostate Model
Yong Zhang, Jinhui Zhang, Lei Wang, Emily Quealy, Bernard D. Gary, Robert C. Reynolds, Gary A. Piazza, and Junxuan Lü
ABOUT THE COVER

The cover features a histology section of a biopsy specimen from an oral premalignant lesion (OPL) stained with an epidermal growth factor receptor (EGFR)-specific antibody and counterstained with hematoxylin (200x magnification; Axiol-platform image courtesy of Sufi Thomas). The strong expression of EGFR (brown) predominantly occurs in the basal layer of the epithelium; connective tissue does not express EGFR (mottled blue). EGFR abnormalities are associated with oral tumorigenesis and progression. As reported in this issue of the journal, EGFR-expression and gene copy-number changes were evaluated (immunohistochemistry for expression, fluorescence in situ hybridization for copy number) as markers of an OPL's increased risk for progressing to oral cancer in a randomized controlled clinical trial. See articles by Benchekroun et al. (beginning on page 800) and Rosin and Califano (beginning on page 797) for more information.