## 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**

Mark J. Roth, Hormuzd A. Katki, Wen-Qiang Wei, You-Lin Qiao, Rachel Baghi, Guo-Qing Wang, Denise Whitby, Zhi-Wei Dong, Mitchell H. Gail, Paul J. Limburg, Carol A. Giffen, Philip R. Taylor, and Sanford M. Daweys

#### 818

**A Novel Mechanism of Indole-3-Carbinol Effects on Breast Carcinogenesis Involves Induction of Cdc25A Degradation**

Yongsheng Wu, Xiaoling Feng, Yucui Jin, Zhaojia Wu, William Hankey, Carolyn Paisie, Lei Li, Fengjuan Liu, Sanford H. Barsky, Weiwei Zhang, Ramesh Ganju, and Xianghong Zou

#### 829

**Profiling Lipoxynagenase Metabolism in Specific Steps of Colorectal Tumorigenesis**


### Cancer Prevention Research

July, 2010 • Volume 3 • Number 7

---

**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

**Optical Measurement of Rectal Microvasculature as an Adjunct to Flexible Sigmoidoscopy: Gender-Specific Implications**

Heman K. Roy, Andrew J. Gomes, Sarah Ruderman, Laura K. Bianchi, Michael J. Goldberg, Valentina Stoyanova, Jeremy D. Rogers, Vladimir Tuzhitsky, 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, François Guéraud, Michelle Vieu, 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 Deapan, Joan A. Largent, Susan L. Neuhusen, Daniel O. Stram, Giske Ursin, and Hoda Anton-Culver

**Quercetin Potentiates UBV-Induced c-Fos Expression: Implications for Its Use as a Chemopreventive Agent**

Erik R. Olson, Tania 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 Li
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; Ariol-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 Benekroun et al. (beginning on page 800) and Rosin and Califano (beginning on page 797) for more information.