


EDITORIAL

- 761** Implications of the "Bad Luck" Explanation of Cancer Risk for the Field of Cancer Prevention
Timothy C. Wang and Eva Szabo, for the *CaPR* Deputy and Senior Editors
See related article, p. 762

COMMENTARY

- 762** A Critical Examination of the "Bad Luck" Explanation of Cancer Risk
Andrii I. Rozhok, Geoffrey M. Wahl, and James DeGregori
See related article, p. 761

RESEARCH ARTICLES

- 765** Impact of Short-term 1,25-Dihydroxyvitamin D₃ on the Chemopreventive Efficacy of Erlotinib against Oral Cancer
Katelyn D. Bothwell, Tatiana Shaurova, Mihai Merzianu, Amritha Suresh, Moni A. Kuriakose, Candace S. Johnson, Pamela A. Hershberger, and Mukund Seshadri
- 777** Selecting High-Risk Individuals for Lung Cancer Screening: A Prospective Evaluation of Existing Risk Models and Eligibility Criteria in the German EPIC Cohort
Kuanrong Li, Anika Hüsing, Disorn Sookthai, Manuela Bergmann, Heiner Boeing, Nikolaus Becker, and Rudolf Kaaks
- 786** St. John's Wort Attenuates Colorectal Carcinogenesis in Mice through Suppression of Inflammatory Signaling
Soumen K. Manna, Srujana Golla, Jaya Prakash Golla, Naoki Tanaka, Yan Cai, Shogo Takahashi, Kristopher W. Krausz, Tsutomu Matsubara, Ilia Korboukh, and Frank J. Gonzalez
- 796** Omega-3-Acid Ethyl Esters Block the Protumorigenic Effects of Obesity in Mouse Models of Postmenopausal Basal-like and Claudin-Low Breast Cancer
 Nikki A. Ford, Emily L. Rossi, Kelsey Barnett, Peiyang Yang, Laura W. Bowers, Brandon H. Hidaka, Bruce F. Kimler, Susan E. Carlson, Imad Shureiqi, Linda A. deGraffenried, Carol J. Fabian, and Stephen D. Hursting

- 807** Dietary γ -Tocopherol-Rich Mixture Inhibits Estrogen-Induced Mammary Tumorigenesis by Modulating Estrogen Metabolism, Antioxidant Response, and PPAR γ
Soumyasri Das Gupta, Sudathip Sae-tan, Joseph Wahler, Jae Young So, Min Ji Bak, Larry C. Cheng, Mao-Jung Lee, Yong Lin, Weichung Joe Shih, James D. Shull, Stephen Safe, Chung S. Yang, and Nanjoo Suh

- 817** Effect of Combined Treatment with Ursolic Acid and Resveratrol on Skin Tumor Promotion by 12-O-Tetradecanoylphorbol-13-Acetate
Jiyoon Cho, Okkyung Rho, Jacob Junco, Steve Carbajal, Dionicio Siegel, Thomas J. Slaga, and John DiGiovanni

- 826** Plasma MicroRNAs as Novel Biomarkers for Patients with Intraductal Papillary Mucinous Neoplasms of the Pancreas
Jennifer Permuth-Wey, Dung-Tsa Chen, William J. Fulp, Sean J. Yoder, Yonghong Zhang, Christina Georgeades, Kazim Husain, Barbara Ann Centeno, Anthony M. Magliocco, Domenico Coppola, and Mokenge Malafa

- 835** Chemopreventive Effects of Korean Angelica versus Its Major Pyranocoumarins on Two Lineages of Transgenic Adenocarcinoma of Mouse Prostate Carcinogenesis
Su-Ni Tang, Jinhui Zhang, Wei Wu, Peixin Jiang, Manohar Puppala, Yong Zhang, Chengguo Xing, Sung-Hoon Kim, Cheng Jiang, and Junxuan Lü

- 845** Assessment of Esophageal Adenocarcinoma Risk Using Somatic Chromosome Alterations in Longitudinal Samples in Barrett's Esophagus
Xiaohong Li, Thomas G. Paulson, Patricia C. Galipeau, Carissa A. Sanchez, Karen Liu, Mary K. Kuhner, Carlo C. Maley, Steven G. Self, Thomas L. Vaughan, Brian J. Reid, and Patricia L. Blount

- 857** Leukoplakia, Oral Cavity Cancer Risk, and Cancer Survival in the U.S. Elderly
Elizabeth L. Yanik, Hormuzd A. Katki, Michael J. Silverberg, M. Michele Manos, Eric A. Engels, and Anil K. Chaturvedi

Table of Contents

- 864** A Phase II Randomized, Controlled Trial of S-Adenosylmethionine in Reducing Serum α -Fetoprotein in Patients with Hepatitis C Cirrhosis and Elevated AFP
Timothy R. Morgan, Kathryn Osann, Teodoro Bottiglieri, Neville Pimstone, John C. Hoefs, Ke-Qin Hu, Tarek Hassanein, Thomas D. Boyer, Lorene Kong, Wen-Pin Chen, Ellen Richmond, Rachel Gonzalez, Luz M. Rodriguez, and Frank L. Meyskens

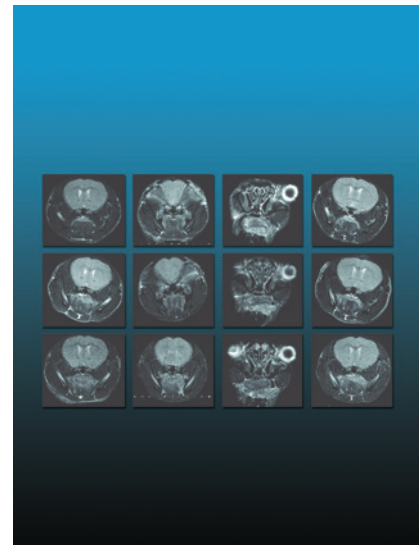
- 873** Effects of Switching to Electronic Cigarettes with and without Concurrent Smoking on Exposure to Nicotine, Carbon Monoxide, and Acrolein
Hayden McRobbie, Anna Phillips, Maciej L. Goniewicz, Katie Myers Smith, Oliver Knight-West, Dunja Przulj, and Peter Hajek

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ABOUT THE COVER

Oral squamous cell carcinomas (OSCC) are locoregionally aggressive tumors that result in debilitating functional and esthetic sequelae in patients. The high rate of recurrence and the formation of second primary tumors have been attributed to a number of factors including field cancerization. This unique disease biology makes OSCC an ideal target for preventive intervention. In this study, preclinical trials were conducted to examine the potential of 1,25-dihydroxy vitamin D₃ as a bioadjuvant to enhance the chemopreventive efficacy of the EGFR inhibitor, erlotinib. Magnetic resonance imaging (MRI) in combination with histologic and molecular analyses was performed to examine the safety and efficacy of this combination strategy in the 4NQO model of oral cancer. Noninvasive MRI enabled longitudinal monitoring of oral carcinogenesis *in vivo*. The panel of images on the cover represents axial T2-weighted MR images of a mouse from all experimental groups (columns) over time (rows). The combination regimen showed reduced incidence of OSCC and reduction in tumor growth over time. The ease of administration of 1,25(OH)₂D₃ along with its diverse biologic effects strongly supports its usefulness as a chemopreventive bioadjuvant against oral cancer. See the article by Bothwell *et al.* (beginning on page 765) for more information.



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8 (9)

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