# Table of Contents

**July 2014 • Volume 7 • Number 7**

## COMMENTARY

639  
It Is Time to Regulate Carcinogenic Tobacco-Specific Nitrosamines in Cigarette Tobacco  
Stephen S. Hecht

## PERSPECTIVES

648  
Laboratory to Community: Chemoprevention Is the Answer  
Kenneth Olden and Suryanarayana V. Vulimiri  
See related article, p. 658

653  
Of Mice, Rats, and Men: Could Nrf2 Activation Protect against Aflatoxin Hepatocarcinogenesis in Humans?  
David L. Eaton and Christopher M. Schaupp  
See related article, p. 658

## RESEARCH ARTICLES

658  
Complete Protection against Aflatoxin B1-Induced Liver Cancer with a Triterpenoid: DNA Adduct Dosimetry, Molecular Signature, and Genotoxicity Threshold  
See related articles, p. 648 and p. 653

666  
A Phase Ib Study of the Effects of Black Raspberries on Rectal Polyps in Patients with Familial Adenomatous Polyposis  
Li-Shu Wang, Carol A. Burke, Henrietta Hasson, Chieh-Ti Kuo, Christine L. Sardo Molmenti, Claire Seguin, Pengyuan Liu, Tim H.-M. Huang, Wendy L. Frankel, and Gary D. Stoner

675  
Alcohol Consumption Promotes Diethylnitrosamine-Induced Hepatocarcinogenesis in Male Mice through Activation of the Wnt/β-Catenin Signaling Pathway  
Kelly E. Mercer, Leah Hennings, Neha Sharma, Keith Lai, Mario A. Cleves, Rebecca A. Wynne, Thomas M. Badger, and Martin J.J. Ronis

686  
Evaluation of Clinical Criteria for the Identification of Lynch Syndrome among Unselected Patients with Endometrial Cancer  
Amanda S. Bruegl, Bojana Djordjevic, Brittany Batte, Molly Daniels, Bryan Fellman, Diana Urbauer, Rajyalakshmi Luthra, Charlotte Sun, Karen H. Lu, and Russell R. Broaddus

698  
The PARP Inhibitors, Veliparib and Olaparib, Are Effective Chemopreventive Agents for Delaying Mammary Tumor Development in BRCA1-deficient Mice  
Ciric To, Eun-Hee Kim, Darlene B. Royce, Charlotte R. Williams, Ryan M. Collins, Renee Risingsong, Michael B. Sporn, and Karen T. Liby

708  
Chemoprevention of Urothelial Carcinoma Growth and Invasion by the Dual COX–LOX Inhibitor Licofelone in UPII-SV40T Transgenic Mice  
Venkateshwar Madika, Altaf Mohammed, Qian Li, Yuting Zhang, Jagan M.R. Patlolla, Laura Biddick, Stan Lightfoot, Xue-Ru Wu, Vernon Steele, Levy Kopelovich, and Chinthalapally V. Rao

717  
Validation of Methylation Biomarkers that Distinguish Normal Colon Mucosa of Cancer Patients from Normal Colon Mucosa of Patients without Cancer  
Matteo Cesaroni, Jasmine Powell, and Carmen Sapienza

727  
The Acetylenic Tricyclic Bis(cyano enone), TBE-31 Inhibits Non–Small Cell Lung Cancer Cell Migration through Direct Binding with Actin  
Eddie Chan, Akira Saito, Tadashi Honda, and Gianni M. Di Guglielmo

738  
Mammary Cancer Chemoprevention by Withaferin A Is Accompanied by In Vivo Suppression of Self-Renewal of Cancer Stem Cells  
Su-Hyeong Kim and Shivendra V. Singh

748  
Acyl-Coenzyme A-Binding Protein Regulates Beta-Oxidation Required for Growth and Survival of Non–Small Cell Lung Cancer  
Fredrick T. Harris, S.M. Jamshedur Rahman, Mohamed Hassanein, Jun Qian, Megan D. Hoeksema, Heidi Chen, Rosana Eisenberg, Pierre Chaurand, Richard M. Caprioli, Masakazu Shiota, and Pierre P. Massion
Urinary PGE-M Levels Are Associated with Risk of Colorectal Adenomas and Chemopreventive Response to Anti-Inflammatory Drugs
Navya Bezawada, Mingyang Song, Kana Wu, Rajj S. Mehta, Ginger L. Milne, Shuji Ogino, Charles S. Fuchs, Edward L. Giovannucci, and Andrew T. Chan

Prostatic and Dietary Omega-3 Fatty Acids and Prostate Cancer Progression during Active Surveillance
Xavier Moreel, Janie Allaire, Caroline Léger, André Caron, Marie-Eve Labonté, Benoît Lamarche, Pierre Julien, Patrice Desmeules, Bernard Tétu, and Vincent Fradet

ABOUT THE COVER
The migratory potential of cells depends on the reorganization of the cell cytoskeleton. In this study, the effects of the acetylenic tricyclic bis-(cyano enone), TRE-31, on actin polymerization and cell migration of normal and tumor cells were investigated. The cover micrograph shows immunofluorescence staining of polarized Rat2 fibroblasts. Confluent monolayers of cells were scratched and incubated at 37°C for six hours to allow them to polarize. The cells were then fixed, permeabilized, and immunostained with anti-Arp3 antibodies (to visualize actin-related protein 3; green), AlexaFluor 555 phalloidin (to visualize filamentous actin; red), and DAPI (to visualize nuclei; blue). Note that the Arp3 and polymerized branched actin co-localize at the leading edge of migrating cells (yellow stain). See the article by Chan and colleagues (Beginning on page 727) for more information.