

PERSPECTIVES

- 1719 **Long-term Nicotine Replacement Therapy: Cancer Risk in Context**
Peter G. Shields
Perspective on Murphy et al., p. 1752, and Maier et al., p. 1743

- 1724 **How Do We Safely Get People to Stop Smoking?**
David C.L. Lam and John D. Minna
Perspective on Murphy et al., p. 1752, and Maier et al., p. 1743

MINIREVIEWS

- 1728 **Coxibs and Other Nonsteroidal Anti-Inflammatory Drugs in Animal Models of Cancer Chemoprevention**
Susan M. Fischer, Ernest T. Hawk, and Ronald A. Lubet

- 1736 **Weight Cycling and Cancer: Weighing the Evidence of Intermittent Caloric Restriction and Cancer Risk**
Henry J. Thompson and Anne McTiernan

RESEARCH ARTICLES

- 1743 **Nicotine Does Not Enhance Tumorigenesis in Mutant *K-Ras*-Driven Mouse Models of Lung Cancer**
Colleen R. Maier, M. Christine Hollander, Evthokia A. Hobbs, Irem Dogan, R. Ilona Linnoila, and Phillip A. Dennis
See Perspective p. 1719 and 1724

- 1752 **Chronic Nicotine Consumption Does Not Influence 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanone-Induced Lung Tumorigenesis**
Sharon E. Murphy, Linda B. von Weymarn, Melissa M. Schutten, Fekadu Kassie, and Jaime F. Modiano
See Perspective p. 1719 and 1724

- 1761 **Phase III Trial of Selenium to Prevent Prostate Cancer in Men with High-grade Prostatic Intraepithelial Neoplasia: SWOG S9917**

James R. Marshall, Catherine M. Tangen, Wael A. Sakr, David P. Wood Jr, Donna L. Berry, Eric A. Klein, Scott M. Lippman, Howard L. Parnes, David S. Alberts, David F. Jarrard, W. Robert Lee, J. Michael Gaziano, E. David Crawford, Benjamin Ely, Michael Ray, Warren Davis, Lori M. Minasian, and Ian M. Thompson Jr

- 1770 **Nuclear Morphometry Identifies a Distinct Aggressive Cellular Phenotype in Cutaneous Squamous Cell Carcinoma**

Evan S. Glazer, Peter H. Bartels, Anil R. Prasad, Michael L. Yozwiak, Hubert G. Bartels, Janine G. Einspahr, David S. Alberts, and Robert S. Krouse

- 1778 **Lung Cancer Risk Prediction to Select Smokers for Screening CT—a Model Based on the Italian COSMOS Trial**

Patrick Maisonneuve, Vincenzo Bagnardi, Massimo Bellomi, Lorenzo Spaggiari, Giuseppe Pelosi, Cristiano Rampinelli, Raffaella Bertolotti, Nicole Rotmensz, John K. Field, Andrea DeCensi, and Giulia Veronesi

- 1790 **Mammography and Ultrasound Imaging of Preinvasive and Invasive Canine Spontaneous Mammary Cancer and Their Similarities to Human Breast Cancer**

S.I. Mohammed, G.B. Meloni, M.L. Pinna Parpaglia, V. Marras, G.P. Burrai, F. Meloni, S. Pirino, and Elisabetta Antuofermo

- 1799 **Nonsteroidal Anti-inflammatory Drug Use and Risk of Adenomatous and Hyperplastic Polyps**

Harvey J. Murff, Martha J. Shrubsole, Zhi Chen, Walter E. Smalley, Heidi Chen, Yu Shyr, Reid M. Ness, and Wei Zheng

- 1808 **Statin Use and Colorectal Cancer Risk According to Molecular Subtypes in Two Large Prospective Cohort Studies**

Jung Eun Lee, Yoshifumi Baba, Kimmie Ng, Edward Giovannucci, Charles S. Fuchs, Shuji Ogino, and Andrew T. Chan

- 1816 **EZH2 Promotes Malignant Phenotypes and Is a Predictor of Oral Cancer Development in Patients with Oral Leukoplakia**
Wei Cao, Rania H. Younis, Jiang Li, Haiyan Chen, Ronghui Xia, Li Mao, Wantao Chen, and Hening Ren
- 1825 **Dietary Folate Deficiency Blocks Prostate Cancer Progression in the TRAMP Model**
Gaia Bistulfi, Barbara A. Foster, Ellen Karasik, Bryan Gillard, Jeff Miecznikowski, Vineet K. Dhiman, and Dominic J. Smiraglia
- 1835 **Aspirin, Nonsteroidal Anti-inflammatory Drugs, Acetaminophen, and Pancreatic Cancer Risk: a Clinic-Based Case-Control Study**
Xiang-Lin Tan, Kaye M. Reid Lombardo, William R. Bamlet, Ann L. Oberg, Dennis P. Robinson, Kristin E. Anderson, and Gloria M. Petersen
- 1842 **(3-Chloroacetyl)-indole, a Novel Allosteric AKT Inhibitor, Suppresses Colon Cancer Growth *In Vitro* and *In Vivo***
Dong Joon Kim, Kanamata Reddy, Myoung Ok Kim, Yan Li, Janos Nadas, Yong-Yeon Cho, Jong-Eun Kim, Jung-Hyun Shim, Nu Ry Song, Andria Carper, Ronald A. Lubet, Ann M. Bode, and Zigang Dong
- 1852 **Tamoxifen Downregulates *Ets* Oncogene Family Members *ETV4* and *ETV5* in Benign Breast Tissue: Implications for Durable Risk Reduction**
David Euhus, Dawei Bu, Xian-Jin Xie, Venetia Sarode, Raheela Ashfaq, Kelly Hunt, Weiya Xia, Joyce O'Shaughnessy, Michael Grant, Banu Arun, William Dooley, Alexander Miller, David Flockhart, and Cheryl Lewis
- 1863 **Ethanol Promotes Chemically Induced Oral Cancer in Mice through Activation of the 5-Lipoxygenase Pathway of Arachidonic Acid Metabolism**
Yizhu Guo, Xin Wang, Xinyan Zhang, Zheng Sun, and Xiaoxin Chen
- 1873 **Metabolic Syndrome and Risks of Colon and Rectal Cancer: The European Prospective Investigation into Cancer and Nutrition Study**
Krasimira Aleksandrova, Heiner Boeing, Mazda Jenab, H. Bas Bueno-de-Mesquita, Eugene Jansen, Fränzel J.B. van Duijnhoven, Veronika Fedirko, Sabina Rinaldi, Isabelle Romieu, Elio Riboli, Dora Romaguera, Kim Overvad, Jane Nautrup Østergaard, Anja Olsen, Anne Tjønneland, Marie-Christine Boutron-Ruault, Françoise Clavel-Chapelon, Sophie Morois, Giovanna Masala, Claudia Agnoli, Salvatore Panico, Rosario Tumino, Paolo Vineis, Rudolf Kaaks, Annekatriin Lukanova, Antonia Trichopoulou, Androniki Naska, Christina Bamia, Petra H. Peeters, Laudina Rodríguez, Genevieve Buckland, María-José Sánchez, Miren Dorronsoro, Jose-Maria Huerta, Aurelio Barricarte, Göran Hallmans, Richard Palmqvist, Kay-Tee Khaw, Nicholas Wareham, Naomi E. Allen, Konstantinos K Tsilidis, and Tobias Pischon
- 1884 **Phenylbutyl Isoselenocyanate Modulates Phase I and II Enzymes and Inhibits 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanone-Induced DNA Adducts in Mice**
Melissa A. Crampsie, Nathan Jones, Arunangshu Das, Cesar Aliaga, Dhimant Desai, Philip Lazarus, Shantu Amin, and Arun K. Sharma
- 1895 **Combination of Atorvastatin with Sulindac or Naproxen Profoundly Inhibits Colonic Adenocarcinomas by Suppressing the p65/ β -Catenin/Cyclin D1 Signaling Pathway in Rats**
Nanjoo Suh, Bandaru S. Reddy, Andrew DeCastro, Shiby Paul, Lee Hong Jin, Amanda K. Smolarek, So Jae Young, Barbara Simi, Wang Chung Xiou, Naveena B. Janakiram, Vernon Steele, and Chinthalapally V. Rao
- 1903 **Prospective Investigation of Poultry and Fish Intake in Relation to Cancer Risk**
Carrie R. Daniel, Amanda J. Cross, Barry I. Graubard, Albert R. Hollenbeck, Yikyung Park, and Rashmi Sinha

1912 **Mitochondrial DNA Copy Number and Pancreatic Cancer in the Alpha-Tocopherol Beta-Carotene Cancer Prevention Study**

Shannon M. Lynch, Stephanie J. Weinstein, Jarmo Virtamo, Qing Lan, Chin-San Liu, Wen-Ling Cheng, Nathaniel Rothman, Demetrius Albanes, and Rachael Z. Stolzenberg-Solomon

1920 **Inhibition by Resistant Starch of Red Meat-Induced Promutagenic Adducts in Mouse Colon**

Jean Winter, Laura Nyskohus, Graeme P. Young, Ying Hu, Michael A. Conlon, Anthony R. Bird, David L. Topping, and Richard K. Le Leu

1929 **Phase II Study of the Effects of Ginger Root Extract on Eicosanoids in Colon Mucosa in People at Normal Risk for Colorectal Cancer**

Suzanna M. Zick, D. Kim Turgeon, Shaiju K. Vareed, Mack T. Ruffin, Amie J. Litzinger, Benjamin D. Wright, Sara Alrawi, Daniel P. Normolle, Zora Djuric, and Dean E. Brenner

1938 **Methyl Selenocysteine: Single-Dose Pharmacokinetics in Men**

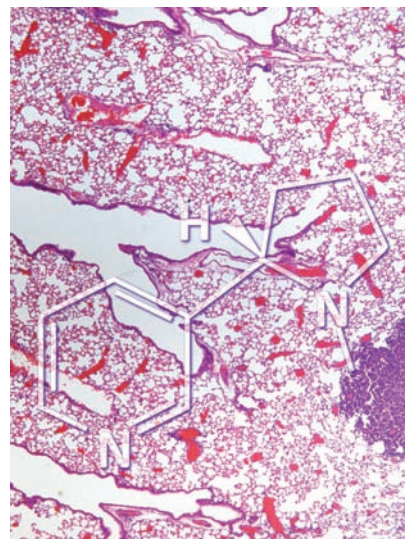
James R. Marshall, Clement Ip, Karen Romano, Gerald Fetterly, Marwan Fakhri, Boroko Jovanovic, Marjorie Perloff, James Crowell, Warren Davis, Renee French-Christy, Alexander Dew, Margerie Coomes, and Raymond Bergan

RETRACTION

1945 **Retraction: Psoralidin, an Herbal Molecule, Inhibits Phosphatidylinositol 3-Kinase-Mediated Akt Signaling in Androgen-Independent Prostate Cancer Cells**

ABOUT THE COVER

The cover image is a photomicrograph of an A/J mouse's lung section stained with hematoxylin and eosin (courtesy of M. Christine Hollander and Phillip A. Dennis). The mouse was treated with intraperitoneal injections of the tobacco carcinogen 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK; 3 weekly doses of 100 mg/kg starting at 6 weeks of age), and lungs were harvested 16 weeks after treatment started. Histologically normal alveoli (honeycomb-like structures) are present throughout the section, and the large, empty spaces bordered by purple-stained bronchial epithelium are normal bronchioles. A lung tumor (purple mass) is evident at the lower right. *In vitro* studies have suggested that nicotine (whose chemical structure is superimposed on the lung section) enhances cancer cell growth, but mouse-model studies suggest otherwise, as reported in this issue of the journal. This issue is of critical importance as the FDA considers approval of long-term nicotine replacement therapy for smoking cessation. See articles by Maier et al. (beginning on page 1743), Murphy et al. (beginning on page 1752), Lam and Minna (beginning on page 1724), and Shields (beginning on page 1719) for more information.



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