# Table of Contents

## Perspective

1173  **Indeterminate Pulmonary Nodules: Risk for Having or for Developing Lung Cancer?**  
Pierre P. Massion and Ronald C. Walker  
See related article, p. 1179

## Research Articles

1179  **Short- and Long-term Lung Cancer Risk Associated with Noncalcified Nodules Observed on Low-Dose CT**  
Paul F. Pinsky, P. Hrudaya Nath, David S. Gierada, Sushil Sonavane, and Eva Szabo  
See related article, p. 1173

1186  **Epigenetic DNA Methylation of Antioxidative Stress Regulator NRF2 in Human Prostate Cancer**  
Tin Oo Khor, Francisco Fuentes, Limin Shu, Ximena Paredes-Gonzalez, Anne Yuqing Yang, Yue Liu, Dominic J. Smiraglia, Srinivasan Yegnasubramanian, William G. Nelson, and Ah-Ng Tony Kong

1198  **Efllornithine (DFMO) Prevents Progression of Pancreatic Cancer by Modulating Ornithine Decarboxylase Signaling**  

1210  **A DRD1 Polymorphism Predisposes to Lung Cancer among Those Exposed to Secondhand Smoke during Childhood**  
Ana I. Robles, Ping Yang, Jin Jen, Andrew C. McClary, Kara Calhoun, Elise D. Bowman, Kirsi Vahakangas, K. Leigh Greathouse, Yi Wang, Susan Olivo-Marston, Angela S. Wenzlaff, Bo Deng, Ann G. Schwartz, and Brod M. Ryan

1219  **Lycopene Attenuated Hepatic Tumorigenesis via Differential Mechanisms Depending on Carotenoid Cleavage Enzyme in Mice**  
Blanche C. Ip, Chun Liu, Lynne M. Ausman, Johannes von Lintig, and Xiang-Dong Wang

1228  **Dietary Tomato and Lycopene Impact Androgen Signaling- and Carcinogenesis-Related Gene Expression during Early TRAMP Prostate Carcinogenesis**  
Lei Wan, Hsueh-Li Tan, Jennifer M. Thomas-Ahner, Dennis K. Pearl, John W. Erdman Jr, Nancy E. Moran, and Steven K. Clinton

1240  **Multitarget Effects of Quercetin in Leukemia**  
Victor Maso, Andrania Karla Calgarotto, Gilberto Carlos Franchi Jr, Alexandre Eduardo Nowill, Paulo Latul Filho, José Vassallo, and Sara Teresinha Olalla Saad

1251  **Methylation Analysis of the FAM19A4 Gene in Cervical Scrapes Is Highly Efficient in Detecting Cervical Carcinomas and Advanced CIN2/3 Lesions**  
Lise M.A. De Strooper, Chris J.L.M. Meijer, Johannes Berkhof, Albertus T. Hesselink, Peter J.F. Snijders, Renske D.M. Steenbergen, and Danielle A.M. Heideman

1258  **Proton Pump Inhibitors and Histamine 2 Blockers Are Associated with Improved Overall Survival in Patients with Head and Neck Squamous Carcinoma**  
Silvana Papagerakis, Emily Bellile, Lisa A. Peterson, Maria Pliakas, Katherine Balaskas, Sara Sedman, David Hanauer, Jeremy M.G. Taylor, Sonia Duffy, and Gregory Wolf

1270  **Crucial Role of c-Jun Phosphorylation at Ser63/73 Mediated by PHLPP Protein Degradation in the Cheliensisin A Inhibition of Cell Transformation**  
Junlan Zhu, Jingjie Zhang, Haishan Huang, Jingxia Li, Yonghui Yu, Honglei Jin, Yang Li, Xu Deng, Jimin Gao, Qinshi Zhao, and Chunshu Huang

1282  **DNA Methylation Levels at Chromosome 8q24 in Peripheral Blood Are Associated with 8q24 Cancer Susceptibility Loci**  
Kathryn Hughes Barry, Lee E. Moore, Joshua Sampson, Liying Yan, Ann Meyer, Andrew J. Oler, Charles C. Chung, Zhaoming Wang, Meredith Yeager, Laufey Amundadottir, and Sonja I. Berndt

1293  **Acknowledgment to Reviewers**
ABOUT THE COVER

Ornithine decarboxylase (ODC) is the key rate-limiting enzyme in the synthesis of polyamines, and it is overexpressed in a variety of cancers, including pancreatic cancer. Activation of ODC signaling occurs at early stages of pancreatic precursor lesions and increases as the tumor progresses. Longitudinal profiling of tumor progression revealed that ODC and polyamine synthesis levels were increased in KrasG12D-activated genetically engineered mice and correlated with aggressiveness of tumor growth. The ODC inhibitor, eflornithine (DFMO), caused modulation of ODC pathway signaling with significant inhibition of pancreatic ductal adenocarcinoma (PDAC) incidence, tumor cell proliferation, and increased expression of p21/p27 in KrasG12D mice. These preclinical data indicate that DFMO applied at clinically relevant dose levels has potential for chemoprevention of pancreatic cancer. The figure depicts immunofluorescence staining of pancreatic intraepithelial neoplasia (PanIN) lesions and PDAC showing membranous and cytoplasmic localization of ODC (green). Counter nuclei staining was performed with DAPI (blue). See the article by Mohammed and colleagues (beginning on page 1198) for more information.