CANCER IMMUNOPREVENTION SERIES

1011 The FDA Guidance on Therapeutic Cancer Vaccines: The Need for Revision to Include Preventive Cancer Vaccines or for a New Guidance Dedicated to Them
Olivera J. Finn, Samir N. Khleif, and Ronald B. Herberman

RESEARCH ARTICLES

1017 Paired Box 5 Methylation Detection by Droplet Digital PCR for Ultra-Sensitive Deep Surgical Margins Analysis of Head and Neck Squamous Cell Carcinoma
Masamichi Hayashi, Rafael Guerrero-Preston, David Sidransky, and Wayne M. Koch

1027 New DNA Methylation Markers and Global DNA Hypomethylation Are Associated with Oral Cancer Development

1036 Consumption of Soy Isoflavone Enriched Bread in Men with Prostate Cancer Is Associated with Reduced Proinflammatory Cytokines and Immunosuppressive Cells
Gregory B. Lesinski, Patrick K. Reville, Thomas A. Mace, Gregory S. Young, Jennifer Ahn-Jarvis, Jennifer Thomas-Ahner, Yael Vodovotz, Zeenath Ameen, Elizabeth Grainger, Kenneth Riedl, Steven Schwartz, and Steven K. Clinton

1045 Isoflavone Pharmacokinetics and Metabolism after Consumption of a Standardized Soy and Soy–Almond Bread in Men with Asymptomatic Prostate Cancer
Jennifer H. Ahn-Jarvis, Steven K. Clinton, Elizabeth M. Grainger, Kenneth M. Riedl, Steven J. Schwartz, Mei-Ling T. Lee, Raul Cruz-Cano, Gregory S. Young, Gregory B. Lesinski, and Yael Vodovotz

1055 Metformin Use and Risk of Prostate Cancer: Results from the REDUCE Study
Tom Feng, Xizi Sun, Lauren E. Howard, Adriana C. Vidal, Alexis R. Gaines, Daniel M. Moreira, Ramiro Castro-Santamaria, Gerald L. Andriole, and Stephen J. Freedland

1061 Urinary Metabolites of Prostanoids and Risk of Recurrent Colorectal Adenomas in the Aspirin/Folate Polyp Prevention Study (APPPS)
Veronika Fedirko, Patrick T. Bradshaw, Jane C. Figueiredo, Robert S. Sandler, Elizabeth L. Barry, Dennis J. Ahnen, Ginger L. Milne, Robert S. Bresalier, and John A. Baron

1069 Effects of Calcium Supplementation on Biomarkers of Inflammation and Oxidative Stress in Colorectal Adenoma Patients: A Randomized Controlled Trial
Baiyu Yang, Myron D. Gross, Veronika Fedirko, Marjorie L. McCullough, and Robert M. Bostick

1076 In Vivo Regulation of Colonic Cell Proliferation, Differentiation, Apoptosis, and P27Kip1 by Dietary Fish Oil and Butyrate in Rats
Mee Young Hong, Nancy D. Turner, Mary E. Murphy, Raymond J. Carroll, Robert S. Chapkin, and Joanne R. Iupiton

1084 ERb Expression and Breast Cancer Risk Prediction for Women with Atypias
Tina J. Hieken, Iodi M. Carter, John R. Hawse, Tanya L. Hoskin, Melanie Bois, Marlene Frost, Lynn C. Hartmann, Derek C. Radisky, Daniel W. Visscher, and Amy C. Degnim

1093 PAK1 Promotes Intestinal Tumor Initiation
Kyle Dammann, Vineeta Khare, Felix Harpain, Michaela Lang, Azra Kurtovic, Ildiko Mesteri, Rayko Evtastievi, and Christoph Gasche

1102 Noninvasive Molecular Screening for Oral Precancer in Fanconi Anemia Patients
ABOUT THE COVER

Soy is rich in phytochemicals, and diets rich in soy products have been associated with a reduced risk of several cancers based upon epidemiologic studies and a variety of preclinical studies of pure soy phytochemicals. However, the number of clinical intervention trials that address these important dietary hypotheses are remarkably few, and findings from these studies have been mixed. Many questions regarding the types of food products to examine, as well as the optimal dose and duration of time necessary to impact human carcinogenesis and alter cancer risk remain uncertain. Evidence suggests that the absorption and metabolism of bioactive phytochemicals in soy is likely impacted by both host genetics and the microbiota. The development of soy-based food products that are consistent, with known phytochemical composition, and easily incorporated into the diet with excellent compliance will allow many of the key questions to be addressed in clinical trials. In this study, a soy-based bread product has been tested in a phase II trial with men having prostate cancer. The cover figure depicts a stylistic cluster analysis of urinary soy isoflavonoid patterns in humans with four distinct metabolic patterns identified. See the article by Ahn-Jarvis and colleagues (beginning on page 1045) for more information.