New Role of (−)-Epicatechin in Enhancing the Induction of Growth Inhibition and Apoptosis in Human Lung Cancer Cells by Curcumin
Achinto Saha, Takashi Kuzuhara, Noriko Echigo, Masami Suganuma, and Hirota Fujiki

963 Novel Application of Proton Pump Inhibitor for the Prevention of Colitis-Induced Colorectal Carcinogenesis beyond Acid Suppression
Yoon Jae Kim, Jeong Sang Lee, Kyung Sook Hong, Jun Won Chung, Ju Hyun Kim, and Ki Baik Hahn

1,4-Phenylenedis(Methylene) Selenocyanate, but Not Selenomethionine, Inhibits Androgen Receptor and Akt Signaling in Human Prostate Cancer Cells
Nicole D. Facompre, Karam El-Bayoumy, Yuan-Wan Sun, John T. Pinto, and Raghu Sinha

Green Tea Polyphenols and Metabolites in Prostatectomy Tissue: Implications for Cancer Prevention
Piwen Wang, William J. Aronson, Min Huang, Yanjun Zhang, Ru-Po Lee, David Heber, and Susanne M. Henning

Proteomic Profiling of Potential Molecular Targets of Methyl-Selenium Compounds in the Transgenic Adenocarcinoma of Mouse Prostate Model
Jinhui Zhang, Lei Wang, Lorraine R. Anderson, Bruce Wüthuhn, Yanji Xu, and Junxuan Liu

No Association between Endogenous Retinoic Acid and Human Papillomavirus Clearance or Incident Cervical Lesions in Brazilian Women
Erin M. Siegel, Jason L. Salemi, Neal E. Craft, Luisa L. Villa, Alex S. Ferenczy, Eduardo L. Franco, and Anna R. Giuliano

Cryptotanshinone Inhibits Cancer Cell Proliferation by Suppressing Mammalian Target of Rapamycin–Mediated Cyclin D1 Expression and Rb Phosphorylation
Weixing Chen, Yan Luo, Lei Liu, Hongyu Zhou, Baoshan Xu, Xiuzhen Han, Tao Shen, Zhijun Liu, Yin Lu, and Shile Huang
Factors Affecting the Decision of Breast Cancer Patients to Undergo Contralateral Prophylactic Mastectomy
Min Yi, Kelly K. Hunt, Banu K. Arun, Isabelle Bedrosian, Angelica Gutierrez Barrera, Kim-Anh Do, Henry M. Kuerer, Gidy V. Babiera, Elizabeth A. Mittendorf, Kaylene Ready, Jennifer Litton, and Funda Meric-Bernstam

Oral Selenium Supplementation Has No Effect on Prostate-Specific Antigen Velocity in Men Undergoing Active Surveillance for Localized Prostate Cancer
M. Suzanne Stratton, Amit M. Algotar, James Ranger-Moore, Steven P. Stratton, Elizabeth H. Slate, Chiu-Hsieh Hsu, Patricia A. Thompson, Larry C. Clark, and Frederick R. Ahmann

ABOUT THE COVER
The cover image of four contour plots reflects a novel statistical methodology for assessing the chemopreventive synergy of combined agents (epigenetic modulators in this case). Standard statistics for two-drug combinations are limited for addressing complex dose-response patterns of chemopreventive combinations, which can involve nonmonotonic, or nonlinear, relationships with a plateau effect or U-shaped curve. The Emax and recently developed semiparametric statistical models can address such complexities. Each contour plot shows the growth-inhibition effects of a demethylating agent (AZA) plus a histone deacetylase inhibitor (SAHA) at different doses and/or schedules in tumorigenic human bronchial epithelial cells without serum. AZA was added to cells at an early (Early AZA) and late (Late AZA) time point, whereas SAHA was added only at the late time point. The x axis (AZA) and y axis (SAHA) show doses in μmol/L. The complex dose-response relationships included only an additive (white area) or antagonistic (Ant., pink area) relationship of late AZA plus SAHA with no early AZA (top-left panel) and increasingly synergistic effects (Syn.) when adding low doses of late AZA to SAHA plus increasing doses of early AZA (light-blue areas in the top-right, lower-left, and lower-right panels). Numbers adjacent to the contour lines indicate beyond-additive growth inhibition, i.e., differences between the observed and predicted growth inhibition. The graph data were generated via the Emax and Loewe-additivity models (predicted additive growth inhibition) and the semiparametric model (beyond-additive growth inhibition and confidence bands). These results are part of a comprehensive set of experiments and analyses that validated this novel statistical approach for assessing the synergy of combined chemopreventive drugs. See article by Fujimoto et al. (beginning on page 917) for more information.

MEETING REPORT

Conference Report: Eighth Annual AACR International Conference on Frontiers in Cancer Prevention Research
Abenaa M. Brewster, Sherri L. Patterson, Michele R. Forman, Chanita Hughes-Halbert, Paul J. Limburg, Frank G. Ondrey, Electra D. Paskett, David W. Wetter, and Ernest T. Hawk
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