REVIEW

Screening of Chemopreventive Agents in Animal Models: Results on Reproducibility, Agents of a Given Class, and Agents Tested During Tumor Progression

Ronald A. Lubet, Vernon E. Steele, Robert H. Shoemaker, and Clinton J. Grubbs

RESEARCH ARTICLES

607 The Ashitaba (Angelica keiskei) Chalcones 4-hydroxyderricin and Xanthoangelol Suppress Melanomagenesis By Targeting BRAF and PI3K

Tianshun Zhang, Qiushi Wang, Mangaladoss Fredinmoses, Ge Gao, Keke Wang, Hanyong Chen, Ting Wang, Naomi Oi, Tatyana A. Zyкова, Kanamata Reddy, Ke Yao, Weiya Ma, Xiaoyu Chang, Mee-Hyun Lee, Moeez Ghani Rathore, Ann M. Bode, Hitoshi Ashida, Scott M. Lippman, and Zigang Dong

621 Early-Life Alcohol Intake and High-Grade Prostate Cancer: Results from an Equal-Access, Racially Diverse Biopsy Cohort

Jamie Michael, Lauren E. Howard, Sarah C. Markt, Amanda De Hoedt, Charlotte Bailey, Loeleli A. Mucci, Stephen J. Freedland, and Emma H. Allott

629 Aspirin Suppresses PGE2 and Activates AMP Kinase to Inhibit Melanoma Cell Motility, Pigmentation, and Selective Tumor Growth In Vivo

Dileep Kumar, Hafeez Rahman, Ehiika Tyagi, Tong Liu, Chelsea Li, Ran Lu, David Lum, Sheri L. Holmen, J Alan Maschek, James E. Cox, Matthew W. VanRacklin, and Douglas Grossman

643 Prostacyclin and EMT Pathway Markers for Monitoring Response to Lung Cancer Chemoprevention

Melissa L. New, Collin M. White, Polly McGonigle, Debbie G. McArthur, Lori D. Dwyer-Nield, Daniel T. Merrick, Robert L. Keith, and Meredith A. Tennis

655 Germline and Somatic NF1 Alterations Are Linked to Increased HER2 Expression in Breast Cancer

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665 Prevention of Lipid Peroxidation-derived Cyclic DNA Adduct and Mutation in High-Fat Diet-induced Hepatocarcinogenesis by Theaphenon E

Heidi Coia, Ning Ma, Yanqi Hou, Marcin D. Dyba, Ying Fu, M. Idalia Cruz, Carlos Benitez, Garrett T. Graham, Justine N. McCutcheon, Yun-Ling Zheng, Bing Sun, Bhaskar V. Kallakury, Junfeng Ma, Hong-Bin Fang, Deborah L. Berry, Vinona Murialidaran, and Fung-Lung Chung

EDITOR'S NOTE

677 Editor's Note: Inactivation of AR/TMPRSS2-ERG/Wnt Signaling Networks Attenuates the Aggressive Behavior of Prostate Cancer Cells

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ABOUT THE COVER

Melanoma remains a major challenge in the cancer prevention field, and there are conflicting epidemiologic data on whether chronic aspirin (ASA) use may reduce melanoma risk in humans. Potential anti-cancer effects of ASA may be mediated by its ability to suppress prostaglandin E2 (PGE2) production and activate 5’-adenosine monophosphate-activated protein kinase (AMPK). In the current study, the inhibitory effects of ASA was investigated in a panel of melanoma and transformed melanocyte cell lines and on growth of human tumor xenografts in a preclinical model. The micrograph images show staining (brown) of proliferating tumor cells from mice treated by daily gavage with water (inset) or ASA (cover image). These cells are less prevalent in tumors from the ASA-treated mice. The tumors from ASA-treated animals also expressed lower levels of PGE2 and higher levels of phosphorylated AMPK (not shown). See the article by Kumar et al. (beginning on page 629) for more information.