


REVIEW


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

- 607** The Ashitaba (*Angelica keiskei*) Chalcones 4-hydroxyderricin and Xanthoangelol Suppress Melanomagenesis By Targeting BRAF and PI3K
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- 629** Aspirin Suppresses PGE₂ and Activates AMP Kinase to Inhibit Melanoma Cell Motility, Pigmentation, and Selective Tumor Growth *In Vivo*
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- 643** Prostacyclin and EMT Pathway Markers for Monitoring Response to Lung Cancer Chemoprevention
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- 655** Germline and Somatic *NF1* Alterations Are Linked to Increased HER2 Expression in Breast Cancer
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EDITOR'S NOTE

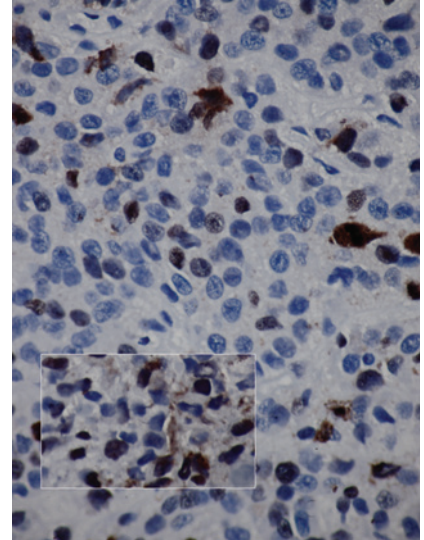
- 677** Editor's Note: Inactivation of AR/TMPRSS2-ERG/Wnt Signaling Networks Attenuates the Aggressive Behavior of Prostate Cancer Cells

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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.



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