EDITORIAL

1 Molecular Predictors of Duodenal Familial Adenomatous Polyposis Chemoprevention: Do Chemopreventive Drugs Hit Their Presumed Molecular Targets?
Imad Shureiqi
See related article, p. 4

RESEARCH ARTICLES

4 Chemoprevention with Cyclooxygenase and Epidermal Growth Factor Receptor Inhibitors in Familial Adenomatous Polyposis Patients: mRNA Signatures of Duodenal Neoplasia
See related editorial, p. 1

16 Does Mutated K-RAS Oncogene Attenuate the Effect of Sulindac in Colon Cancer Chemoprevention?

27 Flaxseed Consumption Inhibits Chemically Induced Lung Tumorigenesis and Modulates Expression of Phase II Enzymes and Inflammatory Cytokines in A/J Mice
Shireen Chikara, Sujan Mamidi, Avinashi Sreedasyam, Kishore Chittem, Ralph Pietrofesa, Athena Zuppa, Ganesh Moodhy, Neil Dyer, Melpo Christofidou-Solomidou, and Katie M. Reindl

38 A Survey among Breast Cancer Specialists on the Low Uptake of Therapeutic Prevention with Tamoxifen or Raloxifene
Silvia Noonan, Ambra Pasa, Vincenzo Fontana, Silvia Caviglia, Bernardo Bonanni, Alberto Costa, Samuel G. Smith, Fredo Peccatori, and Andrea DeCensi

44 Genetic Variants in Metabolic Signaling Pathways and Their Interaction with Lifestyle Factors on Breast Cancer Risk: A Random Survival Forest Analysis
Su Yon Jung, Jeanette C. Papp, Eric M. Sobel, and Zuo-Feng Zhang

52 A Novel Application of Structural Equation Modeling Estimates the Association between Oxidative Stress and Colorectal Adenoma
Ronald C. Eldridge, Michael Goodman, Robert M. Bostick, Veronika Fedirko, Myron Gross, Bharat Thyagarajan, and W. Dana Flanders

59 Chemopreventive and Antitumor Efficacy of Curcumin in a Spontaneously Developing Hen Ovarian Cancer Model
Kazim Sahin, Cemal Orhan, Mehmet Tuzcu, Nurhan Sahin, Hakku Tastan, Ibrahim Hanifi Ozcetu, Osman Gul, Nermin Kahraman, Omer Kucuk, and Bulent Ozpolat
ABOUT THE COVER

Recent studies demonstrated that the laying hen (Gallus gallus domesticus) is the only nonhuman animal that experiences spontaneous development of ovarian cancer, occurring at a high prevalence rate of up to 35%. Thus, it is an emerging experimental model for studying the development and progression of this cancer as well as investigating chemopreventive and therapeutic strategies. More importantly, ovarian cancer in hens has histology and morphology similar to those of the human disease and shares many clinical and pathological features with the frequently occurring epithelial subtypes of human ovarian cancer, such as high-grade serous cancer with metastasis and production of ascites and similar molecular pathways and markers, such as CA-125 expression and mutation frequency. The present study investigated the chemopreventive and antitumor effects of dietary curcumin in clinically relevant galline model and demonstrates a tremendous role for curcumin as a chemopreventive strategy for ovarian cancer. The cover image shows developing follicles containing fat globules in ovarian tissue sections obtained from hens with normal ovaries (stained with hematoxylin and eosin). See article by Sahin et al. (beginning on page 59) for more information.