### Reviews

- **Key Principles and Clinical Applications of "Next-Generation" DNA Sequencing**
  Jason M. Rizzo and Michael J. Buck

- **Obesity and Ovarian Cancer Survival: A Systematic Review and Meta-analysis**
  Melinda M. Protani, Christina M. Nagle, and Penelope M. Webb

### Research Articles

- **Dietary Methyl Donor Depletion Protects Against Intestinal Tumorigenesis in ApCMin/+ Mice**
  Krishna Kadaveru, Petr Protiva, Emily J. Greenspan, Young-In Kim, and Daniel W. Rosenberg

- **Relative Distribution of Folate Species Is Associated with Global DNA Methylation in Human Colorectal Mucosa**
  Jia Liu, Luke B. Hesson, Alan P. Meagher, Michael J. Bourke, Emily J. Greenspan, Young-In Kim, and Daniel W. Rosenberg

- **Dietary Energy Balance Modulates Epithelial-to-Mesenchymal Transition and Tumor Progression in Murine Claudin-Low and Basal-like Mammary Tumor Models**
  Sarah M. Dunlap, Lucia J. Chiao, Leticia Nogueira, Binhua Chi, and Stephen D. Hursting

- **Assessing Individual Breast Cancer Risk within the U.K. National Health Service Breast Screening Program: A New Paradigm for Cancer Prevention**
  D. Gareth R. Evans, Jane Warwick, Susan M. Astley, Paula Stavrinou, Sarah Sahin, Sarah Ingham, Helen McBurney, Barbara Eckersley, Michelle Harvie, and Lorne J. Hofseth

### Letters to the Editor

- **Hexane Fraction of American Ginseng Suppresses Colitis and Colon Cancer—Letter**
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- **Hexane Fraction of American Ginseng Suppresses Colitis and Colon Cancer—Response**
  Deepak Poudyal, Phuong Mai Le, Tia Davis, Anne B. Hofseth, Alena Chumanevich, Alexander A. Chumanevich, Michael J. Wargovich, Mitzi Nagarkatti, Prakash S. Nagarkatti, Anthony Windust, and Lorne J. Hofseth

- **Soy Isoflavones for Breast Cancer Risk Reduction—Letter**
  Anna H. Wu, Darcy V. Spicer, and Malcolm C. Pike

- **Soy Isoflavones for Breast Cancer Risk Reduction—Response**
  Seema A. Khan, Robert T. Chatterton, and Raymond Bergan
ABOUT THE COVER

The links between obesity (highly prevalent in many parts of the world) and claudin-low or basal-like breast cancers are unclear. Given the poor prognosis of these intrinsic breast cancer subtypes, the identification of mechanistic targets and strategies to prevent or control them is critical. The cover features an immunofluorescence photomicrograph (X60 magnification) of E-Wnt basal-like mammary tumors derived from MMTV-Wnt-1 transgenic mice. The epithelial morphology of these tumors is reflected by high expression of the common epithelial marker E-cadherin (green; nuclei are blue). E-cadherin expression is lost in M-Wnt claudin-low mammary tumors, which have a mesenchymal morphology and very poor prognosis. Diet-induced obesity significantly decreased E-cadherin expression and increased mesenchymal marker expression in E-Wnt cells, whereas calorie restriction increased E-cadherin expression and suppressed growth in both E-Wnt and M-Wnt tumors. Therefore, components of the epithelial-to-mesenchymal transition pathway represent possible targets for breaking the obesity-breast cancer link, particularly for the poor prognosis, often therapy-resistant subtypes basal-like and claudin-low breast cancers. See article by Dunlap et al. (beginning on page 930) for more information.