The Case for a Pre-Cancer Genome Atlas (PCGA)
Joshua D. Campbell, Sarah A. Mazzilli, Mary E. Reid, Samjot S. Dhillon, Suso Platero, Jennifer Beane, and Avrum E. Spira

When "Effective" Prevention Agents Fail to Elicit Anticipated Effects: Challenges in Trial Design
Kenneth Y. Tsai and Ernest T. Hawk

Phase IIB Randomized Study of Topical Difluoromethylornithine and Topical Diclofenac on Sun-Damaged Skin of the Forearm
Joanne M. Jeter, Clara Curiel-Lewandrowski, Steven P. Stratton, Paul B. Myrdal, James A. Warneke, Janine G. Einspahr, Chengcheng Hu, Peter Bartels, and David S. Alberts

Serum Antibodies to HPV16 Early Proteins Warrant Investigation as Potential Biomarkers for Risk Stratification and Recurrence of HPV-Associated Oropharyngeal Cancer
Carole Fakhry, Jesse R. Quailiotine, Zhe Zhang, Nishant Agrawal, Daria A. Gaykalova, Justin A. Bishop, Rathan M. Subramaniam, Jeanette M. Ferguson, Brett T. Daly, Kenneth Riedl, Steven J. Schwartz, Yael Vodovotz, Anthony J. Buctha Sr, David E. Schuller, Enver Ozer, Amit Agrawal, and Christopher M. Weghorst

Relationship of Terminal Duct Lobular Unit Involution of the Breast with Area and Volume Mammographic Densities
Gretchen L. Gierach, Deeshia A. Patel, Ruth M. Pfeiffer, Jonine D. Figueroa, Laura Linville, Daphne Papathomas, Jason M. Johnson, Rachael E. Chicoine, Sally D. Herschorn, John A. Shepherd, Jeff Wang, Serghei Malkov, Pamela M. Vacek, Donald L. Weaver, Bo Fan, Amit Pasha Mahmoudzadeh, Maya Palakal, Jackie Xiang, Hannah Oh, Hisani N. Home, Brian L. Sprague, Stephen M. Hewitt, Louise A. Brinton, and Mark E. Sherman

Double-Blind, Randomized Trial of Alternative Letrozole Dosing Regimens in Postmenopausal Women with Increased Breast Cancer Risk
Ana Maria López, Sandhya Pruthi, Judy C. Boughhey, Marjorie Perloff, Chiu-Hsieh Hsu, Julie E. Lang, Michele Ley, Denise Frank, Josephine A. Taverna, and H-H. Sherry Chow

The Doylestown Algorithm: A Test to Improve the Performance of AFP in the Detection of Hepatocellular Carcinoma
Mengjun Wang, Karthik Devarajan, Amit G. Singal, Jorge A. Marrero, Jianliang Dai, Ziding Feng, Jo Ann S. Rinaudo, Sudhir Srivastava, Alison Evans, Hie-Won Hann, Yinzi Lai, Hushan Yang, Timothy M. Block, and Anand Mehta

Unconjugated Bilirubin Is a Novel Prognostic Biomarker for Nasopharyngeal Carcinoma and Inhibits Its Metastasis via Antioxidation Activity
Cheng-Cheng Deng, Miao Xu, Jing Li, Xiao-Lin Luo, Yu-Jia Zhu, Rou Jiang, Meng-Xia Zhang, Jin-Ju Lei, Yi-Fan Lian, Xiong Zou, Rui You, Li-Zhen Chen, Qi-Sheng Feng, Jin-Xin Bei, Ming-Yuan Chen, and Yi-Xin Zeng
Table of Contents

Louis Lacombe, Vincent Fradet, Éric Lèvesque, Frédéric Pouliot, Hélène Larue, Alain Bergeron, Hélène Hovington, André Caron, Molière Nguile-Makao, Mario Harvey, Yves Fradet, and Chantal Guillemette

196 Inflammatory Marker Changes in Postmenopausal Women after a Year-long Exercise Intervention Comparing High Versus Moderate Volumes
Christine M. Friedenreich, Rachel O’Reilly, Eileen Shaw, Frank Z. Stanczyk, Yutaka Yasui, Darren R. Brenner, and Kerry S. Courneya

ABOUT THE COVER
A digitized image of a hematoxylin and eosin-stained breast tissue section represents a benign diagnostic breast biopsy specimen largely comprised of adipose tissue and with marked terminal duct lobular unit (TDLU) involution. TDLUs are the structures responsible for lactation and are also the histologic source of most breast cancers. TDLU involution, a normal process of aging, is characterized by a reduction in the number and size of TDLUs and their secretory substructures called acini. In this image, rare ducts and equivocal acini are present, but well-developed TDLUs are not identified. Involution of TDLUs has been associated with lower mammographic density and reduced breast cancer risk. See the article by Gierach and colleagues (beginning on page 149) for more information.