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- Comparisons of Metastases in Different Organs: Biological and Clinical Implications.**  
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David Kent, Michael Copley, Claudia Benz, Brad Dykstra, Michelle Bowie, and Connie Eaves .....1926

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- Endoglin (CD105): A Marker of Tumor Vasculature and Potential Target for Therapy.**  
Nikolaos A. Dallas, Shaija Samuel, Ling Xia, Fan Fan, Michael J. Gray, Sherry J. Lim,  
and Lee M. Ellis .....1931

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- Heterogeneity of Breast Cancer Metastases: Comparison of Therapeutic Target Expression and Promoter Methylation Between Primary Tumors and Their Multifocal Metastases.**  
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Jessica L. Hicks, Dhananjay Chitale, Marc Ladanyi, Saraswati Sukumar, and Pedram Argani .....1938

- Histogenesis of Clear Cell Adenocarcinoma in the Urinary Tract: Evidence of Urothelial Origin.** Ming-Tse Sung, Shaobo Zhang, Gregory T. MacLennan, Antonio Lopez-Beltran,  
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- Integrated Genomic and Transcriptomic Analysis of Ductal Carcinoma *In situ* of the Breast.**  
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Xavier Sastre-Garau, Brigitte Sigal-Zafrani, Alain Fourquet, and Olivier Delattre, for the breast  
cancer study group of the Institut Curie .....1956

- Dissection of the APC<sup>Cdh1</sup>-Skp2 Cascade in Breast Cancer.** Takeo Fujita, Weijun Liu,  
Hiroyoshi Doihara, Hiroshi Date, and Yong Wan.....1966

- Familial Breast Cancers without Mutations in BRCA1 or BRCA2 Have Low Cyclin E and High Cyclin D1 in Contrast to Cancers in BRCA Mutation Carriers.** Kirsimari Aaltonen,  
Carl Blomqvist, Rose-Marie Amini, Hannaleena Eerola, Kristiina Aittomäki, Päivi Heikkilä,  
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- Fibroblast Growth Factor 2 and Estrogen Control the Balance of Histone 3 Modifications Targeting MAGE-A3 in Pituitary Neoplasia.** Xuegong Zhu, Sylvia L. Asa, and Shereen Ezzat .....1984

- Tissue Transglutaminase Regulates Focal Adhesion Kinase/AKT Activation by Modulating PTEN Expression in Pancreatic Cancer Cells.** Amit Verma, Sushovan Guha, Huamin Wang,  
Jansina Y. Fok, Dimpy Koul, James Abbruzzese, and Kapil Mehta .....1997

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- Early Metabolic Response Evaluation by Fluorine-18 Fluorodeoxyglucose Positron Emission Tomography Allows *In vivo* Testing of Chemosensitivity in Gastric Cancer: Long-term Results of a Prospective Study.** Katja Ott, Ken Herrmann, Florian Lordick, Hinrich Wieder,  
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## Cancer Prevention and Susceptibility

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## Correction

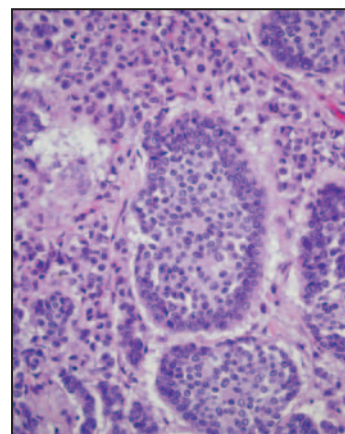
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**Correction: Article on Immunohistochemical Analysis of Phosphotyrosine STAT3 and EGFR Autocrine Signaling Pathways** .....2247

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## About the Cover

This pericardial metastasis from an infiltrating ductal carcinoma primary shows predominantly nested morphology, consistent with ductal differentiation. However, in the lower portion of the field, sheets and cords of signet ring cells are present, indicating lobular differentiation. Immunohistochemical labeling for E-cadherin was diminished in the lobular areas. Other distant metastases in this case were exclusively lobular and lacked E-cadherin expression. For further details, please see the article by Wu and associates on page 1938 of this issue.



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