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IMAGING, DIAGNOSIS, PROGNOSIS

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CANCER THERAPY: CLINICAL

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1852 **First-in-Human Phase 0 Trial of Oral 5-Iodo-2-Pyrimidinone-2'-Deoxyribose in Patients with Advanced Malignancies**

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1873 **A Phase I Trial of Vorinostat and Alvocidib in Patients with Relapsed, Refractory, or Poor Prognosis Acute Leukemia, or Refractory Anemia with Excess Blasts-2**

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1884 **Dasatinib plus Capecitabine for Advanced Breast Cancer: Safety and Efficacy in Phase I Study CA180004**

George Somlo, Francesco Atzori, Lewis C. Strauss, William J. Geese, Jennifer M. Specht, William J. Gradishar, Alissa Rybicki, Oumar Sy, Linda T. Vahdat, and Javier Cortes

PREDICTIVE BIOMARKERS AND PERSONALIZED MEDICINE

1894 **DNA-Mutation Inventory to Refine and Enhance Cancer Treatment (DIRECT): A Catalog of Clinically Relevant Cancer Mutations to Enable Genome-Directed Anticancer Therapy**

Paul Yeh, Heidi Chen, Jenny Andrews, Riyadh Naser, William Pao, and Leora Horn
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1902 **Massively Parallel Tumor Multigene Sequencing to Evaluate Response to Panitumumab in a Randomized Phase III Study of Metastatic Colorectal Cancer**

Marc Peeters, Kelly S. Oliner, Alex Parker, Salvatore Siena, Eric Van Cutsem, Jing Huang, Yves Humblet, Jean-Luc Van Laethem, Thierry André, Jeffrey Wizezorek, David Reese, and Scott D. Patterson

CORRECTIONS

1913 **Correction: Agonist Antibodies to TNFR Molecules That Costimulate T and NK Cells**

1914 **Correction: Phase I and Clinical Pharmacology Study of Bevacizumab, Sorafenib, and Low-Dose Cyclophosphamide in Children and Young Adults with Refractory/Recurrent Solid Tumors**

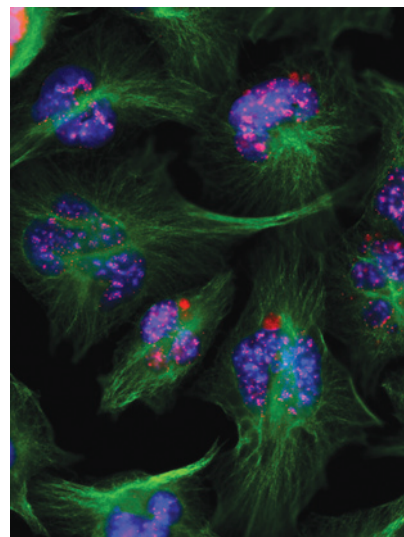
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ABOUT THE COVER

Aurora kinase A plays a key role in regulation of the mitotic spindle checkpoint, and Aurora kinase A inhibitors are currently under development as targeted anticancer agents. In this figure, human bladder carcinoma-derived T24 cells were treated with the Aurora kinase A inhibitor MLN8237 (Millennium Pharmaceuticals), and immunofluorescently stained for tubulin (green), CENPA (red), and DAPI (blue). These treated cells show marked aneuploidy as a result of mitotic failure. For details, see the article by Zhou and colleagues on page 1717 of this issue.



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