## HUMAN CANCER BIOLOGY

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Impairment of Glioma Stem Cell Survival and Growth by a Novel Inhibitor for Survivin–Ran Protein Complex

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Targeting CXCR1/2 Significantly Reduces Breast Cancer Stem Cell Activity and Increases the Efficacy of Inhibiting HER2 via HER2-Dependent and -Independent Mechanisms


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Resistance to BRAF Inhibition in BRAF-Mutant Colon Cancer Can Be Overcome with PI3K Inhibition or Demethylating Agents


Systemic Administration of a Novel Immune-Stimulatory Pseudovirion Suppresses Lung Metastatic Melanoma by Regionally Enhancing IFN-γ Production

Kotaro Saga, Katsumi Tamao, Takehiko Yamazaki, and Yasufumi Kaneda

Antitumor Activity of Cell-Permeable RUNX3 Protein in Gastric Cancer Cells

Junghee Lim, Tam Duong, Nga Do, Phuong Do, Jaetaek Kim, Hyunchul Kim, Wael El-Rifai, H. Earl Ruley, and Daewoong Jo

Effective Assessment of egfr Mutation Status in Bronchoalveolar Lavage and Pleural Fluids by Next-Generation Sequencing

Fiamma Butilitta, Lara Felicioni, Maela Del Granamastro, Giampaolo Filice, Alessia Di Lorito, Sara Malatesta, Patrizia Viola, Irene Centi, Tommaso D’Antuono, Roberta Zappacosta, Sandra Rosini, Franco Cucurullo, and Antonio Marchetti

Molecular Markers in Key Steroidogenic Pathways, Circulating Steroid Levels, and Prostate Cancer Progression

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Detection of miR-34a Promoter Methylation in Combination with Elevated Expression of c-Met and β-Catenin Predicts Distant Metastasis of Colon Cancer

Helge Siemens, Jens Neumann, Rene Jackstadt, Ulrich Mansmann, David Horst, Thomas Kirchner, and Heiko Hermeking

γ-H2AX Foci Formation as a Pharmacodynamic Marker of DNA Damage Produced by DNA Cross-Linking Agents: Results from 2 Phase I Clinical Trials of SJG-136 (SG2000)


Serum CD163 and TARC as Disease Response Biomarkers in Classical Hodgkin Lymphoma

Kimberley Jones, Frank Varl, Colm Keane, Pauline Crooks, Jamie P. Nourse, Louise A. Seymour, David Gottlieb, David Ritchie, Devinder Gill, and Maher K. Gandhi
ABOUT THE COVER

Cytology specimens may represent the only available material for molecular diagnosis in non–small cell lung cancer patients. When the number of neoplastic cells in these samples is very low in a large excess of nonneoplastic cells, the specimen is usually judged inadequate for mutation analysis with conventional methods. The cover figure shows a cytological smear obtained from a bronchoalveolar lavage with a limited number of tumor cells. Next-generation sequencing can greatly improve the detection of mutations in these cases. For details, see the article by Buttitta and colleagues on page 691 of this issue.