HUMAN CANCER BIOLOGY

Deciphering the Mechanisms of Tumorigenesis in Human Pancreatic Ductal Epithelial Cells
Zhe Chang, Zhongkui Li, Xiaoyang Wang, Ya’an Kang, Yuhui Yuan, Jiangong Niu, Huamin Wang, Deyali Chatterjee, Jason B. Fleming, Min Li, James L. Abbruzzese, and Paul J. Chiao

SLC1A5 Mediates Glutamine Transport Required for Lung Cancer Cell Growth and Survival
Mohamed Hassanein, Megan D. Hoeksema, Masakazu Shiota, Jun Qian, Bradford K. Harris, Heidi Chen, Jonathan E. Clark, William E. Alborn, Rosana Eisenberg, and Pierre P. Massion

Impact of Tumor Microenvironment and Epithelial Phenotypes on Metabolism in Breast Cancer
Heather Ann Brauer, Liza Makowski, Katherine A. Hoadley, Patricia Casbas-Hernandez, Lindsay J. Lang, Erick Roñé-Pérez, Monica D'Arcy, Alex J. Freer, Danielle M. Werling, Charles M. Perou, and Melissa A. Troester

CANCER THERAPY: PRECLINICAL

Sorafenib Inhibits Cell Migration and Stroma-Mediated Bortezomib Resistance by Interfering B-cell Receptor Signaling and Protein Translation in Mantle Cell Lymphoma
Silvia Xargay-Torrent, Mónica López-Guerra, Arnau Montraveta, Ifigenia Saborit-Villarroya, Laia Rosich, Alba Navarro, Patricia Pérez-Galán, Gaël Roué, Elias Campo, and Dolors Colomer

The Activation of MAPK in Melanoma Cells Resistant to BRAF Inhibition Promotes PD-L1 Expression That Is Reversible by MEK and PI3K Inhibition
Xiaofeng Jiang, Jun Zhou, Anita Giobbie-Hurder, Jennifer Wargo, and F. Stephen Hodi

Dual Blockade of HER2 in HER2-Overexpressing Tumor Cells Does Not Completely Eliminate HER3 Function
Joan T. Garrett, Cammie R. Sutton, María Gabriela Kuba, Rebecca S. Cook, and Carlos L. Arteaga
IMAGING, DIAGNOSIS, PROGNOSIS

Effective Assessment of egfr Mutation Status in Bronchoalveolar Lavage and Pleural Fluids by Next-Generation Sequencing
Fiamma Buttitta, Lara Felicioni, Maela Del Grammastro, Giampaolo Filice, Alessia Di Lorito, Sara Malatesta, Patrizia Viola, Irene Centi, Tommaso D'Antuono, Roberta Zappacosta, Sandra Rosini, Franco Cuccurullo, and Antonio Marchetti

Molecular Markers in Key Steroidogenic Pathways, Circulating Steroid Levels, and Prostate Cancer Progression
Éric Lévesque, Shu-Pin Huang, Étienne Audet-Walsh, Louis Lacombe, Bo-Ying Bao, Yves Fradjet, Isabelle Laverdière, Mélanie Rouleau, Chao-Yuan Huang, Chia-Cheng Yu, Patrick Caron, and Chantal Guillemette

CANCER THERAPY: CLINICAL

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)

PREDICTIVE BIOMARKERS AND PERSONALIZED MEDICINE

Serum CD163 and TARC as Disease Response Biomarkers in Classical Hodgkin Lymphoma
Kimberley Jones, Frank Vari, Colm Keane, Pauline Crooks, Jamie P. Nourse, Louise A. Seymour, David Gottlieb, David Ritchie, Devinder Gill, and Maher K. Gandhi
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.