## Highlights of This Issue 6081

### SPECIAL FEATURES

#### CCR Translations

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#### Human Cancer Biology

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### Quantitative Immunofluorescence Reveals the Signature of Active B-cell Receptor Signaling in Diffuse Large B-cell Lymphoma


### Expression Profiling of Archival Tumors for Long-term Health Studies

Levi Waldron, Shuji Ogin, Yuji Hoshida, Kozi Shimada, Amy E. Mc-Cart Reed, Peter T. Simpson, Yoshifumi Baba, Katsuhiko Nosho, Nicola Segata, Ana Cristina Vargas, Margaret C. Cummings, Sunil R. Lakhan, Gregory J. Kirkner, Edward Giovannucci, John Quackenbush, Todd R. Golub, Charles S. Fuchs, Giovanni Parmigiani, and Curtis Huttenhower

### Decreased NK Cells in Patients with Head and Neck Cancer Determined in Archival DNA


### Stemness of B-cell Progenitors in Multiple Myeloma Bone Marrow

Kelly Boucher, Nancy Parquet, Raymond Widen, Kenneth Shain, Rachid Baz, Melissa Alsina, John Koomen, Claudio Anasetti, William Dalton, and Lisa E. Perez

### Molecular Epidemiology of EGFR and KRAS Mutations in 3,026 Lung Adenocarcinomas: Higher Susceptibility of Women to Smoking-Related ARAS-Mutant Cancers

Snjezana Dogan, Ronglai Shen, Daphne C. Ang, Melissa L. Johnson, Sandra P. D’Angelo, Paul K. Paik, Edyta B. Brzostowski, Gregory J. Biele, Mark G. Kris, Maureen F. Zakowski, and Marc Ladanyi

### Establishment and Characterization of Novel Cell Lines from Sinonasal Undifferentiated Carcinoma

Yoko Takahashi, Michael E. Kupferman, Diana Bell, Tilahun Jiffar, June Goo Lee, Tong-Xin Xie, Ning-Wei Li, Mei Zhao, Mitchell J. Frederick, Alexander Gelbard, Jeffrey N. Myers, and Ehab Y. Hanna
### OVEREXPRESSION OF ECDSYNONELESS IN PANCREATIC CANCER AND ITS ROLE IN ONCOGENESIS BY REGULATING GLYCOLYSIS


### PROLIFERATION IN THE NORMAL FTE IS A HALLMARK OF THE FOLLICULAR PHASE, NOT BRCA MUTATION STATUS

Sophia H.L. George, Anca Milea, and Patricia A. Shaw

### CANCER THERAPY: PRECLINICAL

#### Radioimmunotherapy of Fibroblast Activation Protein Positive Tumors by Rapidly Internalizing Antibodies

Eliane Fischer, Krishna Chaitanya, Thomas Wiens, Andreas Wadle, Andrew M. Scott, Maries van den Broek, Roger Schibli, Stefan Bauer, and Christoph Renner

#### Activation of HER Family Signaling as a Mechanism of Acquired Resistance to ALK Inhibitors in EML4-ALK–Positive Non–Small Cell Lung Cancer

Junko Tanizaki, Isamu Okamoto, Takafumi Okabe, Kazuko Sakai, Kaoru Tanaka, Hidetoshi Hayashi, Hiroyasu Kaneda, Ken Takezawa, Kiyoko Kuwata, Haruka Yamaguchi, Erina Hatashita, Kazuto Nishio, and Kazuhiro Nakagawa

#### Superior Efficacy of a Combined Epigenetic Therapy against Human Mantle Cell Lymphoma Cells

Warren Fiskus, Rekha Rao, Ramesh Balusu, Siddhartha Ganguly, Jianguo Tao, Eduardo Sotomayor, Uma Mudumuru, Jacqueline E. Smith, Stacey L. Hembruff, Peter Atadja, Victor E. Marquez, and Kapil Bhalla

#### Targeting the PI3K Pathway in the Brain—Efficacy of a PI3K Inhibitor Optimized to Cross the Blood–Brain Barrier


#### In Vivo Phosphoantigen Levels in Bisphosphonate-Treated Human Breast Tumors Trigger Vγ9Vδ2 T-cell Antitumor Cytotoxicity through ICAM-1 Engagement

Ismahiee Benzaid, Hannu Mönkönen, Edith Bonnelye, Jukka Mönkönen, and Philippe Cléizardin

#### Synthetic miR-34a Mimics as a Novel Therapeutic Agent for Multiple Myeloma: In Vitro and In Vivo Evidence

Maria T. Di Martino, Emanuela Leone, Nicola Amodio, Umberto Foresta, Marta Lionetti, Maria R. Pitali, Maria E. Gallo Cantafio, Annamaria Guilla, Francesco Conforti, Eugenio Morelli, Vera Tomaino, Marco Rossi, Massimo Negrini, Manlio Ferrarini, Michele Caragli, Massoud A. Shammas, Nikhil C. Munshi, Kenneth C. Anderson, Antonino Neri, Pieroand Tagliaferri, and Pierfrancesco Tassone

#### TRAIL and Noxa Are Selectively Upregulated in Prostate Cancer Cells Downstream of the RIG-1/MAVS Signaling Pathway by Nonreplicating Sendai Virus Particles

Taeko Matsushima-Miyagi, Koji Hatano, Motonari Nomura, Liu Li-Wen, Tomoyuki Nishikawa, Kotaro Saga, Takashi Shimbo, and Yasufumi Kaneda

#### Universal Cancer Peptide-Based Therapeutic Vaccine Breaks Tolerance against Telomerase and Eradicates Established Tumor

Magalie Dosset, Yann Godet, Charline Vauchy, Laurent Beziaud, Yu Chun Lone, Christine Sedlik, Christelle Liard, Emeline Levionnois, Bertrand Clerc, Federico Sandoval, Etienne Daguindau, Simon Wain-Hobson, Eric Tartour, Pierre Langlade-Demoyen, Christophe Borg, and Olivier Adötévi

#### Antibody-Dependent Cell-Mediated Cytotoxicity Overcomes NK Cell Resistance in MLL-Rearranged Leukemia Expressing Inhibitory KIR Ligands but Not Activating Ligands

Wing Keung Chan, May Kung Sutherland, Ying Li, Jonathan Zalevsky, Sarah Schell, and Wing Leung
Measurement of Tumor VEGF-A Levels with $^{89}$Zr-Bevacizumab PET as an Early Biomarker for the Antiangiogenic Effect of Everolimus Treatment in an Ovarian Cancer Xenograft Model

Scatter Spectroscopic Imaging Distinguishes between Breast Pathologies in Tissues Relevant to Surgical Margin Assessment
Ashley M. Laughney, Venkataramanan Krishnaswamy, Elizabeth J. Rizzo, Mary C. Schwab, Richard J. Barth, Brian W. Pogue, Keith D. Paulsen, and Wendy A. Wells
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Impact of the Integrin Signaling Adaptor Protein NEDD9 on Prognosis and Metastatic Behavior of Human Lung Cancer
Shunsuke Kondo, Satoshi Iwata, Taketo Yamada, Yusuke Inoue, Hiromi Ichihara, Yoshiko Kichikawa, Tomoki Katayose, Akiko Souta-Kuribara, Hiroto Yamazaki, Osamu Hosono, Hiroshi Kawasaki, Hiroshi Tanaka, Yuichiro Hayashi, Michiie Sakamoto, Kazunori Kamiya, Nam H. Dang, and Chikao Morimoto

Clinical Significance of the Genetic Landscape of Pancreatic Cancer and Implications for Identification of Potential Long-term Survivors
Shinichi Yachida, Catherine M. White, Yoshiki Naito, Yi Zhong, Jacqueline A. Brosnan, Anne M. Macgregor-Das, Richard A. Morgan, Tyler Saunders, Daniel A. Laheru, Joseph M. Herman, Ralph H. Hruban, Alison P. Klein, Siân Jones, Victor Velculescu, Christopher L. Wolfgang, and Christine A. Iacobuzio-Donahue

Serum Lactate Dehydrogenase Is Prognostic for Survival in Patients with Bone Metastases from Breast Cancer: A Retrospective Analysis in Bisphosphonate-Treated Patients
Janet E. Brown, Richard J. Cook, Allan Lipton, and Robert E. Coleman
Replication-incompetent Sendai virus particles were injected into orthotopic prostate cancers in NOD-SCID mice on day 29 after the inoculation of human prostate cancer PC3 cells. The dual 4',6-diamidino-2-phenylindole (blue) and terminal deoxynucleotidyl transferase–mediated dUTP nick-end labeling (DAPI; green) staining showed that the TUNEL-positive apoptotic cells were dramatically increased in tumor regions. For details, see the article by Matsushima-Miyagi and colleagues on page 6271 of this issue.