# Highlights of This Issue

## SPECIAL FEATURES

### CCR Translations

**Blinded by the Light: Molecular Imaging in Pancreatic Adenocarcinoma**
Eric Collisson, and Margaret Tempero

*See article p. 302*

### Molecular Pathways

**Insulin Receptor Substrate Regulation of Phosphoinositide 3-Kinase**
Heather E. Metz, and A. McGarry Houghton

**Targeting the BCR-ABL Signaling Pathway in Therapy-Resistant Philadelphia Chromosome-Positive Leukemia**
Thomas OHare, Michael W.N. Deininger, Christopher A. Eide, Tim Clackson, and Brian J. Druker

### Review

**Decreasing the Adverse Effects of Cancer Therapy: National Cancer Institute Guidance for the Clinical Development of Radiation Injury Mitigators**

### CANCER THERAPY: PRECLINICAL

**Modulating Endogenous NQO1 Levels Identifies Key Regulatory Mechanisms of Action of β-Lapachone for Pancreatic Cancer Therapy**
Long Shan Li, Erik A. Bey, Ying Dong, Jieru Meng, Su-San Gao, Jing-Sheng Yan, Xiao-Jin Xie, Rolf A. Brekken, Carlton C. Barnett, William G. Bornmann, Jinming Gao, and David A. Boothman

**Nitric Oxide–Donating Acetylsalicylic Acid Induces Apoptosis in Chronic Lymphocytic Leukemia Cells and Shows Strong Antitumor Efficacy In vivo**
Regina Razavi, Iris Gehrke, Rajesh Kumar Gandhirajan, Simon Jonas Poll-Wolbeck, Michael Hallek, and Karl-Anton Kreuzer

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# HUMAN CANCER BIOLOGY

### Clinical Correlates of NRAS and BRAF Mutations in Primary Human Melanoma
Julie A. Ellerhorst, Victoria R. Greene, Suhendan Emkeniongolu, Carla L. Warneke, Marcella M. Johnson, Carolyn P. Cooke, Li-E Wang, Victor G. Prieto, Jeffrey E. Gershonwald, Qingyi Wei, and Elizabeth A. Grimm

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Gene Expression Profiles of Estrogen ReceptorPositive and Estrogen ReceptorNegative Breast Cancers Are Detectable in Histologically Normal Breast Epithelium
Kelly Graham, Xijin Ge, Antonio de las Morenas, Anusri Tripathi, and Carol L. Rosenberg

SDHA2 (PGL2-SDH5) and Hereditary Head and Neck Paraganglioma
Henricus P.M. Kunst, Martijn H. Ruiten, Jan-Pieter de Monnik, Lien H. Hoeftool, Henri J.L.M. Timmers, Henri A.M. Marres, Jeroen C. Jansen, Hannie Kremer, Jean-Pierre Bayley, and Cor W.R.J. Cremers

Extent and Patterns of MGMT Promoter Methylation in Glioblastoma- and Respective Glioblastoma-Derived Spheres
Davide Sciscuso, Annie-Claire Diserens, Kristof van Dommelen, Danielle Martinet, Greg Jones, Robert-Charles Janzer, Claudio Pollo, Marie-France Hamou, Bernd Kaina, Roger Stupp, Marc Levivier, and Monika E. Hegi

Novel Interaction of MUC4 and Galectin: Potential Pathobiological Implications for Metastasis in Lethal Pancreatic Cancer

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The Journal of Clinical and Translational Research [iii](www.aacrjournals.org)
High Impact of Oatp1a/1b Transporters on In Vivo Disposition of the Hydrophobic Anticancer Drug Paclitaxel
Evita van de Steeg, Anita van Esch, Els Wagenaar, Cornelia M.M. van der Kuijssen, Olaf van Tellingen, Kathryn E. Kenworthy, and Alfred H. Schinkel

CANCER THERAPY: CLINICAL

Primary CNS Lymphoma in Children and Adolescents: A Descriptive Analysis from the International Primary CNS Lymphoma Collaborative Group (IPCG)
Oussama Abla, Sheila Weitzman, Jean-Yves Blay, Brian Patrick O’Neill, Lauren E. Abrey, Edward Neuvelt, Nancy D. Doolittle, Joachim Baehring, Kammesh Pradhan, S. Eric Martin, Michael Guerrero, Shafiqat Shah, Herve Chesoniers, Michael Silver, Rebecca A. Betensky, and Tracy Batchelor

IMAGING, DIAGNOSIS, PROGNOSIS

Plectin-1 as a Novel Biomarker for Pancreatic Cancer
Dirk Bausch, Stephanie Thomas, Mari Mino-Kenudson, Carlos Fernández-del Castillo, Todd W. Bauer, Mark Williams, Andrew L. Warshaw, Sarah P. Thayer, and Kimberly A. Kelly
See commentary p. 203

Fine-Needle Aspiration Biopsies for Gene Expression Ratio-Based Diagnostic and Prognostic Tests in Malignant Pleural Mesothelioma
Assunta De Rienzo, Lingsheng Dong, Beow Y. Yeap, Roderick V. Jensen, William G. Richards, Gavin J. Gordon, David I. Sugarbaker, and Raphael Bueno

A 4-Gene Signature Associated with Clinical Outcome in High-Grade Gliomas
Marie de Tayrac, Marc Aubry, Stephan Saikali, Amandine Eteheverry, Cyrille Surbled, Frédérique Guénot, Marie-Dominique Galibert, Abderrahmane Hamlat, Thierry Lesimple, Véronique Quillien, Philippe Menei, and Jean Mosser

β-Catenin Activation Is Associated with Specific Clinical and Pathologic Characteristics and a Poor Outcome in Adrenocortical Carcinoma
Sébastien Gaujoux, Sophie Grabar, Martin Fassnacht, Bruno Ragazzon, Pierre Launay, Rossella Libé, Ilham Chokri, Anne Audebourg, Benedict Royer, Silviu Shiera, Marie-Cécile Vacher-Lavenu, Bertrand Dousset, Xavier Bertagna, Bruno Alloillo, Jérôme Bertherat, and Frédérique Tissier

Circulating Tumor Cells and EpCAM Expression in Neuroendocrine Tumors
Mohid S. Khan, Theodora Tsiganis, Mohammed Rashid, Jeremy S. Rabouhans, Dominic Yu, Tu Vinh Luong, Martyn Caplin, and Tim Meyer

PREDICTIVE BIOMARKERS AND PERSONALIZED MEDICINE

Impact of Exploratory Biomarkers on the Treatment Effect of Bevacizumab in Metastatic Breast Cancer
Adrian M. Jubb, Kathy D. Miller, Hope S. Rugo, Adrian L. Harris, Dafeng Chen, James D. Reimann, Melody A. Cobleigh, Christopher J. Sweeney, Kyri Papadopoulos, Amita Patnaik, Elena G. Chiorean, Alain C. Mita, Kamlesh Sankhala, Eric Furfine, Jochem Gokemeijer, Lisa Iacono, Cheryl Eaton, Bruce A. Silver, and Monica Mita

EGFR Fluorescence In situ Hybridization Pattern of Chromosome 7 Disomy Predicts Resistance to Cetuximab in KRAS Wild-type Metastatic Colorectal Cancer Patients
Yu-Hong Li, Fang Wang, Lin Shen, Yan-Ming Deng, Qiong Shao, Fen Feng, Xin An, Feng-Hua Wang, Zhi-Qiang Wang, Rui-Hua Xu, and Jian-Yong Shao
ABOUT THE COVER

Immunofluorescence analysis demonstrating the cytoplasmic localization of galectin-3 in CD18/HPAF pancreatic cancer cells transfected with scramble control vector. The cells were grown at low density on sterile cover slips for 20 hours. After washing with 0.1 M HEPES-containing Hanks buffer, the cells were fixed in ice-cold methanol at -20°C for 2 minutes. After nonspecific blocking with 10% goat serum, cells were incubated with anti-galectin-3 antibody in PBS for 90 minutes at room temperature. Cells were washed 3 to 4 times with PBS containing 0.05% Tween-20 (PBS-T) and then incubated with FITC-conjugated anti-rat secondary antibodies for 60 minutes. The cells were counterstained with propidium iodide. Finally, slides were washed, mounted, and observed under a ZEISS confocal laser-scanning microscope. Photographs were digitally captured by using 510-software. For further details, please see Senapati and coworkers on page 267 in this issue.
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17 (2)

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