

Editorials

Is There a Future for Ductal Lavage?

□□ Commentary on Arun *et al.*, p. 4943

Carol J. Fabian4655

ErbB-Dependent Signaling as a Determinant of Trastuzumab Resistance.

□□ Commentary on Ritter *et al.*, p. 4909

Rakesh Kumar4657

The Biology Behind

Loss of Secreted Frizzled-Related Protein-1 Expression in Renal Cell Carcinoma Reveals a Critical Tumor Suppressor Function.

□□ Commentary on Gumz *et al.*, p. 4740

Jeffrey S. Rubin and Donald P. Bottaro4660

CCR Drug Updates

Panitumumab, a Monoclonal Anti-Epidermal Growth Factor Receptor Antibody in Colorectal Cancer: Another One or the One?

Wells A. Messersmith and Manuel Hidalgo4664

Molecular Pathways

Pseudohypoxic Pathways in Renal Cell Carcinoma.

Gennady Bratslavsky, Sunil Sudarshan, Len Neckers, and W. Marston Linehan4667

Membrane-Associated Estrogen Receptor Signaling Pathways in Human Cancers.

Richard J. Pietras and Diana C. Márquez-Garbán4672

Review

Interleukin-12: Biological Properties and Clinical Application.

Michele Del Vecchio, Emilio Bajetta, Stefania Canova, Michael T. Lotze, Amy Wesa, Giorgio Parmiani, and Andrea Anichini4677

Human Cancer Biology

Nicotine Induces Hypoxia-Inducible Factor-1 α Expression in Human Lung Cancer Cells via Nicotinic Acetylcholine Receptor-Mediated Signaling Pathways.

Qunzhou Zhang, Xudong Tang, Zuo-Feng Zhang, Rita Velikina, Shihong Shi, and Anh D. Le4686

High *Skp2* Expression Characterizes High-Risk Neuroblastomas Independent of *MYCN* Status.

Frank Westermann, Kai-Oliver Henrich, Jun S. Wei, Werner Lutz, Matthias Fischer, Rainer König, Ruprecht Wiedemeyer, Volker Ehemann, Benedikt Brors, Karen Ernestus, Ivo Leuschner, Axel Benner, Javed Khan, and Manfred Schwab4695

The Development and Characterization of a Human Midgut Carcinoid Cell Line.

George Van Buren II, Asif Rashid, Anthony D. Yang, Eddie K. Abdalla, Michael J. Gray, Wenbiao Liu, Ray Somcio, Fan Fan, E. Ramsay Camp, James C. Yao, and Lee M. Ellis4704

The Cancer/Testis Antigen Melanoma-Associated Antigen-A3/A6 Is a Novel Target of Fibroblast Growth Factor Receptor 2-IIIb through Histone H3 Modifications in Thyroid Cancer.

Tetsuo Kondo, Xuegong Zhu, Sylvia L. Asa, and Shereen Ezzat4713

INI1 Induces Interferon Signaling and Spindle Checkpoint in Rhabdoid Tumors.

Alexei Morozov, Seung Jae Lee, Zhi-Kai Zhang, Velasco Cimica, David Zagzag, and Ganjam V. Kalpana4721

High-Resolution Single Nucleotide Polymorphism Array Analysis of Epithelial Ovarian Cancer Reveals Numerous Microdeletions and Amplifications. Kylie L. Goringe, Sharoni Jacobs, Ella R. Thompson, Anita Sridhar, Wen Qiu, David Y.H. Choong, and Ian G. Campbell	4731
Secreted Frizzled-Related Protein 1 Loss Contributes to Tumor Phenotype of Clear Cell Renal Cell Carcinoma. Michelle L. Gumz, Hongzhi Zou, Pamela A. Kreinest, April C. Childs, Leandra S. Belmonte, Shauna N. LeGrand, Kevin J. Wu, Bruce A. Luxon, Mala Sinha, Alexander S. Parker, L-Z. Sun, David A. Ahlquist, Christopher G. Wood, and John A. Copland.....	4740
OSU-03012, a Novel Celecoxib Derivative, Is Cytotoxic to Myeloma Cells and Acts through Multiple Mechanisms. Shuhong Zhang, Attaya Suvannasankha, Colin D. Crean, Valerie L. White, Amy Johnson, Ching-Shih Chen, and Sherif S. Farag	4750
Targeting Neuropilin 1 as an Antitumor Strategy in Lung Cancer. Tse-Ming Hong, Yuh-Ling Chen, Yi-Ying Wu, Ang Yuan, Yu-Chih Chao, Yi-Chuan Chung, Ming-Heng Wu, Shuenn-Chen Yang, Szu-Hua Pan, Jin-Yuan Shih, Wing-Kai Chan, and Pan-Chyr Yang.....	4759
Epithelial to Mesenchymal Transition: Expression of the Regulators Snail, Slug, and Twist in Pancreatic Cancer. Birgit Hotz, Marco Arndt, Sonja Dullat, Sarah Bhargava, Heinz-J. Buhr, and Hubert G. Hotz.....	4769
Comprehensive Analysis of Copy Number and Allele Status Identifies Multiple Chromosome Defects Underlying Follicular Lymphoma Pathogenesis. Charles W. Ross, Peter D. Ouillette, Chris M. Saddler, Kerby A. Shedden, and Sami N. Malek	4777
PRDM5 Identified as a Target of Epigenetic Silencing in Colorectal and Gastric Cancer. Yoshiyuki Watanabe, Minoru Toyota, Yutaka Kondo, Hiromu Suzuki, Takashi Imai, Mutsumi Ohe-Toyota, Reo Maruyama, Masanori Nojima, Yasushi Sasaki, Yoshitaka Sekido, Hiroyoshi Hiratsuka, Yasuhisa Shinomura, Kohzoh Imai, Fumio Itoh, and Takashi Tokino	4786

Imaging, Diagnosis, Prognosis

Activated Mammalian Target of Rapamycin Is an Adverse Prognostic Factor in Patients with Biliary Tract Adenocarcinoma. Beata Herberger, Harald Puhalla, Martina Lehnert, Fritz Wrba, Sabine Novak, Anita Brandstetter, Birgit Gruenberger, Thomas Gruenberger, Robert Pirker, and Martin Filipits	4795
Cyclin E–Associated Kinase Activity Predicts Response to Platinum-Based Chemotherapy. Isabelle Bedrosian, Christine Lee, Susan L. Tucker, Shana L. Palla, Karen Lu, and Khandan Keyomarsi	4800
One-step Nucleic Acid Amplification for Intraoperative Detection of Lymph Node Metastasis in Breast Cancer Patients. Masahiko Tsujimoto, Kazuki Nakabayashi, Katsuhide Yoshidome, Tomoyo Kaneko, Takuji Iwase, Futoshi Akiyama, Yo Kato, Hitoshi Tsuda, Shigeto Ueda, Kazuhiko Sato, Yasuhiro Tamaki, Shinzaburo Noguchi, Tatsuki R. Kataoka, Hiromu Nakajima, Yoshifumi Komoike, Hideo Inaji, Koichiro Tsugawa, Koyu Suzuki, Seigo Nakamura, Motonari Daitoh, Yasuhiro Otomo, and Nariaki Matsuura	4807
Decreased Expression of Retinoid Receptors in Melanoma: Entailment in Tumorigenesis and Prognosis. Nitin Chakravarti, Reuben Lotan, Abdul H. Diwan, Carla L. Warneke, Marcella M. Johnson, and Victor G. Prieto	4817
Erythropoietin and Erythropoietin Receptor Coexpression Is Associated with Poor Survival in Stage I Non–Small Cell Lung Cancer. Pierre Saintigny, Benjamin Besse, Patrice Callard, Anne-Claire Vergnaud, Sébastien Czernichow, Magali Colombat, Philippe Girard, Pierre Validire, Jean-Luc Breau, Jean-François Bernaudin, and Jean-Charles Soria	4825

Cancer Therapy: Clinical

Oxaliplatin Pharmacokinetics and Pharmacodynamics in Adult Cancer Patients with Impaired Renal Function. Chris H. Takimoto, Martin A. Graham, Graham Lockwood, Chee M. Ng, Andrew Goetz, Dennis Greenslade, Scot C. Remick, Sunil Sharma, Sridhar Mani, Ramesh K. Ramanathan, Timothy W. Synold, James H. Doroshow, Anne Hamilton, Daniel L. Mulkerin, Percy Ivy, Merrill J. Egorin, and Jean L. Grem.....	4832
---	-------------

Vascular Endothelial Growth Factor-Trap Overcomes Defects in Dendritic Cell Differentiation but Does Not Improve Antigen-Specific Immune Responses. Ingo Fricke, Noweeda Mirza, Jakob Dupont, Craig Lockhart, Autumn Jackson, Ji-Hyun Lee, Jeffrey A. Sosman, and Dmitry I. Gabrilovich.....	4840
Phase I Targeted Combination Trial of Sorafenib and Erlotinib in Patients with Advanced Solid Tumors. Ignacio Duran, Sebastien J. Hotté, Holger Hirte, Eric X. Chen, Martha MacLean, Sandra Turner, Lixia Duan, Gregory R. Pond, Chetan Lathia, Scott Walsh, John J. Wright, Janet Dancey, and Lillian L. Siu.....	4849
Phase I and Pharmacokinetic Study of the (6-Maleimidocaproyl)Hydrazone Derivative of Doxorubicin. Clemens Unger, Brigitte Häring, Michael Medinger, Joachim Drevs, Simone Steinbild, Felix Kratz, and Klaus Mross.....	4858

Cancer Therapy: Preclinical

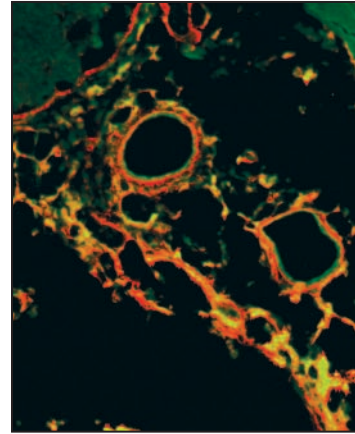
Suppression of Ewing's Sarcoma Tumor Growth, Tumor Vessel Formation, and Vasculogenesis Following Anti-Vascular Endothelial Growth Factor Receptor-2 Therapy. Zhichao Zhou, Marcela F. Bolontrade, Krishna Reddy, Xiaoping Duan, Hui Guan, Ling Yu, Daniel J. Hicklin, and Eugenie S. Kleinerman.....	4867
Sorafenib Inhibits the Imatinib-Resistant <i>KIT</i>^{T670I} Gatekeeper Mutation in Gastrointestinal Stromal Tumor. Tianhua Guo, Narasimhan P. Agaram, Grace C. Wong, Glory Hom, David D'Adamo, Robert G. Maki, Gary K. Schwartz, Darren Veach, Bayard D. Clarkson, Samuel Singer, Ronald P. DeMatteo, Peter Besmer, and Cristina R. Antonescu.....	4874
Hydroxamic Acid Analogue Histone Deacetylase Inhibitors Attenuate Estrogen Receptor-α Levels and Transcriptional Activity: A Result of Hyperacetylation and Inhibition of Chaperone Function of Heat Shock Protein 90. Warren Fiskus, Yuan Ren, Alex Mohapatra, Purva Bali, Aditya Mandawat, Rekha Rao, Bryan Herger, Yonghua Yang, Peter Atadja, Jie Wu, and Kapil Bhalla.....	4882
Enhanced Antitumor Effect of Combined Triptolide and Ionizing Radiation. Wei Wang, Shanmin Yang, Ying Su, Zhenyu Xiao, Chunyou Wang, Xinfeng Li, Ling Lin, Bruce M. Fenton, Scott F. Paoni, Ivan Ding, Peter Keng, Paul Okunieff, and Lurong Zhang.....	4891
p53 Aerosol Formulation with Low Toxicity and High Efficiency for Early Lung Cancer Treatment. Yiyu Zou, Carmen Tornos, Xuan Qiu, Marie Lia, and Roman Perez-Soler.....	4900
Human Breast Cancer Cells Selected for Resistance to Trastuzumab <i>In vivo</i> Overexpress Epidermal Growth Factor Receptor and ErbB Ligands and Remain Dependent on the ErbB Receptor Network. Christoph A. Ritter, Mariana Perez-Torres, Cammie Rinehart, Marta Guix, Teresa Dugger, Jeffrey A. Engelman, and Carlos L. Arteaga.....	4909
Phosphodiesterase 4 Inhibitors Augment Levels of Glucocorticoid Receptor in B Cell Chronic Lymphocytic Leukemia but Not in Normal Circulating Hematopoietic Cells. John A. Meyers, Josephine Taverna, Jorge Chaves, Anthony Makkinje, and Adam Lerner.....	4920
Differential Radiation Protection of Salivary Glands versus Tumor by Tempol with Accompanying Tissue Assessment of Tempol by Magnetic Resonance Imaging. Ana P. Cotrim, Fuminori Hyodo, Ken-Ichiro Matsumoto, Anastasia L. Sowers, John A. Cook, Bruce J. Baum, Murali C. Krishna, and James B. Mitchell.....	4928
Apoptosis Induction in Human Melanoma Cells by Inhibition of MEK Is Caspase-Independent and Mediated by the Bcl-2 Family Members PUMA, Bim, and Mcl-1. Yu Fang Wang, Chen Chen Jiang, Kelly Anne Kiejda, Susan Gillespie, Xu Dong Zhang, and Peter Hersey.....	4934

Cancer Prevention

Comparison of Ductal Lavage and Random Periareolar Fine Needle Aspiration as Tissue Acquisition Methods in Early Breast Cancer Prevention Trials. Banu Arun, Vicente Valero, Catherine Logan, Kristine Broglio, Edgardo Rivera, Abenaa Brewster, Guosheng Yin, Marjorie Green, Henry Kuerer, Yun Gong, Doris Browne, Gabriel N. Hortobagyi, and Nour Sneige4943

About the Cover

Pericyte marker alpha smooth muscle actin (α -SMA, *red*) and vascular endothelial growth factor receptor-2 (VEGFR-2, *green*) double immunofluorescence staining was shown in Ewing's sarcoma tumors. The yellow area indicates cells that express both VEGFR-2 and α -SMA. For further details, please see Zhou and associates on page 4867 in this issue.



Clinical Cancer Research

13 (16)

Clin Cancer Res 2007;13:4655-4948.

Updated version Access the most recent version of this article at:
<http://clincancerres.aacrjournals.org/content/13/16>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, use this link <http://clincancerres.aacrjournals.org/content/13/16>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.