

Editorial

Multidrug Resistance and Stem Cells in Acute Myeloid Leukemia. Branimir I. Sikic3231

The Biology Behind

The Signaling and Biological Implications of FAK Overexpression in Cancer.

□□ *Commentary on Canel et al., p. 3272*

Priscila M.F. Siesser and Steven K. Hanks.....3233

Molecular Pathways

X-Linked Inhibitor of Apoptosis Antagonism: Strategies in Cancer Treatment.

Herman H. Cheung, Eric C. LaCasse, and Robert G. Korneluk.....3238

Perspectives

Barriers to Efficient Development of Cancer Therapeutics. Philip S. Schein

and Barbara Scheffler.....3243

Human Cancer Biology

Nuclear Factor- κ B Signature of Inflammatory Breast Cancer by cDNA Microarray Validated by Quantitative Real-time Reverse Transcription-PCR, Immunohistochemistry, and Nuclear Factor- κ B DNA-Binding. Steven J. Van Laere, Ilse Van der Auwera, Gert G. Van den Eynden,

Hilde J. Elst, Joost Weyler, Adrian L. Harris, Peter van Dam, Eric A. Van Marck, Peter B. Vermeulen, and Luc Y. Dirix.....3249

Identification of ROBO1 as a Novel Hepatocellular Carcinoma Antigen and a Potential Therapeutic and Diagnostic Target. Hirotaka Ito, Shin-ichi Funahashi, Naoko Yamauchi,

Junji Shibahara, Yutaka Midorikawa, Shigeto Kawai, Yasuko Kinoshita, Akira Watanabe, Yoshitaka Hippo, Toshihiko Ohtomo, Hiroko Iwanari, Atsushi Nakajima, Masatoshi Makuuchi, Masashi Fukayama, Yuichi Hirata, Takao Hamakubo, Tatsuhiko Kodama, Masayuki Tsuchiya, and Hiroyuki Aburatani3257

FAS Death Domain Deletions and Cellular FADD-like Interleukin 1 α Converting Enzyme Inhibitory Protein (Long) Overexpression: Alternative Mechanisms for Dereulating the Extrinsic Apoptotic Pathway in Diffuse Large B-Cell Lymphoma Subtypes.

Hideobu Takahashi, Friedrich Feuerhake, Jeffery L. Kutok, Stefano Monti, Paola Dal Cin, Donna Neuberg, Jon C. Aster, and Margaret A. Shipp.....3265

Overexpression of Focal Adhesion Kinase in Head and Neck Squamous Cell Carcinoma Is Independent of *fak* Gene Copy Number. Marta Canel, Pablo Secades, Juan-Pablo Rodrigo,

Rubén Cabanillas, Agustín Herrero, Carlos Suarez, and María-Dolores Chiara3272

Loss of α_4 Integrin Subunit Reduces the Tumorigenicity of MCF7 Mammary Cells and Causes Apoptosis upon Hormone Deprivation. Giulia Bon, Valentina Folgiero,

Gianluca Bossi, Laura Felicioni, Antonio Marchetti, Ada Sacchi, and Rita Falcioni3280

A Modular Analysis of Breast Cancer Reveals a Novel Low-Grade Molecular Signature in Estrogen Receptor-Positive Tumors. Kun Yu, Kumaresan Ganesan, Lance D. Miller,

and Patrick Tan3288

The Coincidence of Chromosome 15 Aberrations and α_2 -Microglobulin Gene Mutations Is Causative for the Total Loss of Human Leukocyte Antigen Class I Expression in Melanoma.

Annette Paschen, Norbert Arens, Antje Sucker, Karin M. Greulich-Bode, Ester Fonsatti, Annunziata Gloghini, Sandra Striegel, Nicole Schwinn, Antonino Carbone, Ralf Hildenbrand, Adelheid Cerwenka, Michele Maio, and Dirk Schadendorf.....3297

Imaging, Diagnosis, Prognosis

- Quantitative Multiplex Methylation-Specific PCR Analysis Doubles Detection of Tumor Cells in Breast Ductal Fluid.** Mary Jo Fackler, Kara Malone, Zhe Zhang, Eric Schilling, Elizabeth Garrett-Mayer, Theresa Swift-Scanlan, Julie Lange, Ritu Nayar, Nancy E. Davidson, Seema A. Khan, and Saraswati Sukumar3306
- Diagnosis of Suspicious Thyroid Nodules Using Four Protein Biomarkers.** Janete M. Cerutti, Flavia R.M. Latini, Claudia Nakabashi, Rosana Delcelo, Victor P. Andrade, Marcelo João Amadei, Rui M.B. Maciel, Flavio C. Hojaij, Donna Hollis, Jennifer Shoemaker, and Gregory J. Riggins3311
- Which Cyclin E Prevails as Prognostic Marker for Breast Cancer? Results from a Retrospective Study Involving 635 Lymph Node–Negative Breast Cancer Patients.** Anieta M. Sieuwerts, Maxime P. Look, Marion E. Meijer-van Gelder, Mieke Timmermans, Anita M.A.C. Trapman, Roberto Rodriguez Garcia, Miranda Arnold, Anneke J.W. Goedheer, Vanja de Weerd, Henk Portengen, Jan G.M. Klijn, and John A. Foekens3319
- The High Frequency of *De novo* Promoter Methylation in Synchronous Primary Endometrial and Ovarian Carcinomas.** Daniela Furlan, Ileana Carnevali, Barbara Marcomini, Roberta Cerutti, Emanuele Dainese, Carlo Capella, and Cristina Riva3329
- Serial Plasma Osteopontin Levels Have Prognostic Value in Metastatic Breast Cancer.** Vivien H.C. Bramwell, Gordon S. Doig, Alan B. Tuck, Sylvia M. Wilson, Katia S. Tonkin, Anna Tomiak, Francisco Perera, Theodore A. Vandenberg, and Ann F. Chambers3337
- Constructing Molecular Classifiers for the Accurate Prognosis of Lung Adenocarcinoma.** Lan Guo, Yan Ma, Rebecca Ward, Vince Castranova, Xianglin Shi, and Yong Qian3344
- Tumor-Infiltrating Cytotoxic T Cells but not Regulatory T Cells Predict Outcome in Anal Squamous Cell Carcinoma.** Gerhard G. Grabenbauer, Godehard Lahmer, Luitpold Distel, and Gerald Niedobitek3355
- Markers of Bone Metabolism and Survival in Men with Hormone-Refractory Metastatic Prostate Cancer.** Richard J. Cook, Robert Coleman, Janet Brown, Allan Lipton, Pierre Major, Yong Jiang Hei, Fred Saad, and Matthew R. Smith3361
- Loss in Chromosome 11q Identifies Tumors with Increased Risk for Metastatic Relapses in Localized and 4S Neuroblastoma.** Ruediger Spitz, Barbara Hero, Thorsten Simon, and Frank Berthold3368
- Novel Blood Biomarkers of Human Urinary Bladder Cancer.** Iman Osman, Dean F. Bajorin, Tung-Tien Sun, Hong Zhong, Diah Douglas, Joseph Scattergood, Run Zheng, Mark Han, K. Wayne Marshall, and Choong-Chin Liew3374

Cancer Therapy: Clinical

- A Phase I Trial to Determine the Optimal Biological Dose of Celecoxib when Combined with Erlotinib in Advanced Non–Small Cell Lung Cancer.** Karen L. Reckamp, Kostyantyn Krysan, Jason D. Morrow, Ginger L. Milne, Robert A. Newman, Christopher Tucker, Robert M. Elashoff, Steven M. Dubinett, and Robert A. Figlin3381
- Germ Line Mutations of Mismatch Repair Genes in Hereditary Nonpolyposis Colorectal Cancer Patients with Small Bowel Cancer: International Society for Gastrointestinal Hereditary Tumours Collaborative Study.** Jae-Gahb Park, Duck-Woo Kim, Chang Won Hong, Byung-Ho Nam, Young-Kyoung Shin, Sung-Hye Hong, Il-Jin Kim, Seok-Byung Lim, Melyssa Aronson, Marie Luise Bisgaard, Gregor J. Brown, John Burn, Elizabeth Chow, Peggy Conrad, Fiona Douglas, Malcolm Dunlop, James Ford, Marc S. Greenblatt, Jarvinen Heikki, Karl Heinimann, Elly L. Lynch, Finlay Macrae, Wendy C. McKinnon, Gabriela Möeslein, Benedito Mauro Rossi, Paul Rozen, Lyn Schofield, Carlos Vaccaro, Hans Vasen, Mary Velthuisen, Alessandra Viel, and Juul Wijnen3389
- Phase I/II Trial of an Allogeneic Cellular Immunotherapy in Hormone-Naïve Prostate Cancer.** Jonathan W. Simons, Michael A. Carducci, Bahar Mikhak, Michael Lim, Barbara Biedrzycki, Flavia Borellini, Shirley M. Clift, Kristen M. Hege, Dale G. Ando, Steven Piantadosi, Richard Mulligan, and William G. Nelson3394

Phase II Study of Docetaxel and S-1 Combination Therapy for Advanced or Recurrent Gastric Cancer. Kazuhiro Yoshida, Motoki Ninomiya, Norihisa Takakura, Naoki Hirabayashi, Wataru Takiyama, Yuji Sato, Satoru Todo, Masanori Terashima, Mitsukazu Gotoh, Yunnichi Sakamoto, and Masahiko Nishiyama.....	3402
Development and Validation of a Drug Activity Biomarker that Shows Target Inhibition in Cancer Patients Receiving Enzastaurin, a Novel Protein Kinase C-ϵ Inhibitor. Lisa J. Green, Philip Marder, Chad Ray, Carolyn A. Cook, Susan Jaken, Luna C. Musib, Roy S. Herbst, Michael Carducci, Carolyn D. Britten, Michele Basche, S. Gail Eckhardt, and Donald Thornton	3408
Vaccination of Colorectal Cancer Patients with Modified Vaccinia Ankara Delivering the Tumor Antigen 5T4 (TroVax) Induces Immune Responses which Correlate with Disease Control: A Phase I/II Trial. Richard Harrop, Noel Connolly, Irina Redchenko, Juan Valle, Mark Saunders, Matthew G. Ryan, Kevin A. Myers, Noel Drury, Susan M. Kingsman, Robert E. Hawkins, and Miles W. Carroll.....	3416
Dual Epidermal Growth Factor Receptor and Vascular Endothelial Growth Factor Receptor Inhibition with NVP-AEE788 for the Treatment of Aggressive Follicular Thyroid Cancer. Maher N. Younes, Yasemin D. Yazici, Seungwon Kim, Samar A. Jasser, Adel K. El-Naggar, and Jeffrey N. Myers	3425

Cancer Therapy: Preclinical

CIITA-Induced MHC Class II Expression in Mammary Adenocarcinoma Leads to a Th1 Polarization of the Tumor Microenvironment, Tumor Rejection, and Specific Antitumor Memory. Lorenzo Mortara, Patrizia Castellani, Raffaella Meazza, Giovanna Tosi, Andrea De Lerma Barbaro, Francesco A. Procopio, Alberto Comes, Luciano Zardi, Silvano Ferrini, and Roberto S. Accolla.....	3435
Effects of 12-O-Tetradecanoylphorbol-13-acetate (TPA) in Combination with Paclitaxel (Taxol) on Prostate Cancer LNCaP Cells Cultured <i>In vitro</i> or Grown as Xenograft Tumors in Immunodeficient Mice. Xi Zheng, Richard L. Chang, Xiao-Xing Cui, Gina E. Avila, Vidya Hebbar, Mark Garzotto, Weichung Joe Shih, Yong Lin, Shou-En Lu, Arnold B. Rabson, Ah Ng Tony Kong, and Allan H. Conney.....	3444
ABCB1 Modulation Does Not Circumvent Drug Extrusion from Primitive Leukemic Progenitor Cells and May Preferentially Target Residual Normal Cells in Acute Myelogenous Leukemia. Marc H.G.P. Raaijmakers, Elke P.L.M. de Grouw, Bert A. van der Reijden, Theo J.M. de Witte, Joop H. Jansen, and Reinier A.P. Raymakers.....	3452
Preclinical Pharmacologic Evaluation of MST-997, an Orally Active Taxane with Superior <i>In vitro</i> and <i>In vivo</i> Efficacy in Paclitaxel- and Docetaxel-Resistant Tumor Models. Deepak Sampath, Lee M. Greenberger, Carl Beyer, Malathi Hari, Hao Liu, Michelle Baxter, Sharon Yang, Carol Rios, and Carolyn Discasani	3459
Anti-CD26 Monoclonal Antibody-Mediated G₁-S Arrest of Human Renal Clear Cell Carcinoma Caki-2 Is Associated with Retinoblastoma Substrate Dephosphorylation, Cyclin-Dependent Kinase 2 Reduction, p27^{kip1} Enhancement, and Disruption of Binding to the Extracellular Matrix. Teruo Inamoto, Tadanori Yamochi, Kei Ohnuma, Satoshi Iwata, Shinichiro Kina, Sakiko Inamoto, Masaaki Tachibana, Yoji Katsuoka, Nam H. Dang, and Chikao Morimoto.....	3470
Sulindac Sulfide and Exisulind Inhibit Expression of the Estrogen and Progesterone Receptors in Human Breast Cancer Cells. Jin T.E. Lim, Andrew K. Joe, Masumi Suzui, Masahito Shimizu, Muneyuki Masuda, and I. Bernard Weinstein.....	3478
<i>In vitro</i> and <i>In vivo</i> Antitumor Activity of the Novel Derivatized Polyvinyl Alcohol-Based Polymer P10(4). Lizzie Raffaghello, Guendalina Zuccari, Roberta Carosio, Isabela Orienti, and Paolo G. Montaldo.....	3485
Preclinical Assessment of <i>FHIT</i> Gene Replacement Therapy in Human Leukemia Using a Chimeric Adenovirus, Ad5/F35. Flavia Pichiorri, Francesco Trapasso, Tiziana Palumbo, Rami I. Aqeilan, Alessandra Drusco, Bradley W. Blaser, Dimitrios Iliopoulos, Michael A. Caligiuri, Kay Huebner, and Carlo M. Croce.....	3494

Importance of the Stress Kinase p38γ in Mediating the Direct Cytotoxic Effects of the Thalidomide Analogue, CPS49, in Cancer Cells and Endothelial Cells. Noel A. Warfel, Erin R. Lepper, Chunyu Zhang, William D. Figg, and Phillip A. Dennis.....	3502
Decreased Pigment Epithelium–Derived Factor Expression in Human Breast Cancer Progression. Jun Cai, Christian Parr, Gareth Watkins, Wen G. Jiang, and Mike Boulton.....	3510
Ionizing Radiation Antagonizes Tumor Hypoxia Induced by Antiangiogenic Treatment. Oliver Riesterer, Michael Honer, Wolfram Jochum, Christoph Oehler, Simon Ametamey, and Martin Pruschy.....	3518
A Bioactively Modified Fatty Acid Improves Survival and Impairs Metastasis in Preclinical Models of Acute Leukemia. Per O. Iversen, Dag R. Sørensen, Karl J. Tronstad, Oddrun A. Gudbrandsen, Arild C. Rustan, Rolf K. Berge, and Christian A. Drevon.....	3525
Insulin-Like Growth Factor I Receptor Pathway Inhibition by ADW742, Alone or in Combination with Imatinib, Doxorubicin, or Vincristine, Is a Novel Therapeutic Approach in Ewing Tumor. Ana S. Martins, Carlos Mackintosh, David Herrero Martín, Maria Campos, Teresa Hernández, Jose-Luis Ordóñez, and Enrique de Alava.....	3532
TC1 (C8orf4) Correlates with Wnt/β-Catenin Target Genes and Aggressive Biological Behavior in Gastric Cancer. Byungsik Kim, Hyunlyoung Koo, Seunghee Yang, Seunghyun Bang, Yusun Jung, Youngmi Kim, Jungtae Kim, Juhee Park, Randall T. Moon, Kyuyoung Song, and Inchul Lee.....	3541

Letters to the Editor

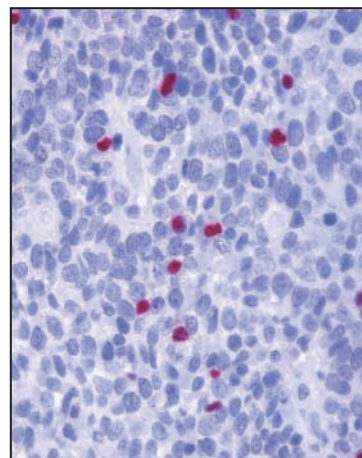
Unusually High Incidence of Hepatitis B Virus Integration into the <i>MLL</i> Gene in Hepatocellular Carcinoma. Masahito Minami, Kota Fujii, Masami Miyagawa, and Takeshi Okanou.....	3549
Reply to the Letter to the Editor by Minami et al. Akihiro Tamori and Shuhei Nishiguchi.....	3549
What Is the Biological Significance of Circulating Blood Levels of Metalloproteinases? Gianluigi Ferretti, Alessandra Fabi, Paolo Carlini, Paola Papaldo, Alessandra Felici, and Francesco Cognetti.....	3550
Reply to the Letter to the Editor by Ferretti et al. Pia Vihinen.....	3551

Corrections

Article on Interleukin 13 Receptor / 2 Chain	3552
Article on Prostate-Specific Antigen Modulates Genes	3552

About the Cover

Immunohistochemistry for detecting FoxP3 (red nuclear labeling) was used to detect and quantify regulatory T cells (Treg) in anal carcinoma. Unexpectedly, the number of Treg cells did not affect the prognosis. By contrast, a strong negative effect of cytotoxic T cells on survival rates of patients with no evidence of disease was observed. For further details, please see Grabenbauer *et al.* on page 3355 in this issue.



Clinical Cancer Research

12 (11)

Clin Cancer Res 2006;12:3635s-3552.

Updated version Access the most recent version of this article at:
<http://clincancerres.aacrjournals.org/content/12/11>

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/12/11>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.