Clinical Cancer Research

Contents

 vol 15, no 12

June 15, 2009

Editorial

Eribulin: Rediscovering Tubulin as an Anticancer Target. Antonio Jimeno ........................................3903
 Commentaries on Goel et al., p. 4207 and Tan et al., p. 4213

CCR Translations

Toward an Effective Targeted Chemotherapy for Multiple Myeloma. Andrew G. Polson
and Mark X. Sliwkowski ......................................................3906
 Commentaries on Ikeda et al., p. 4028

CCR Practice of Translational Oncology

Successes and Challenges in Translational Research: The Development of Targeted Therapy
for Gastrointestinal Stromal Tumours. Daniel J. Renouf, Lora Wilson, and Charles D. Blanke ........3908

Molecular Pathways

Targeting NEDD8-Activated Cullin-RING Ligases for the Treatment of Cancer. Teresa A. Soucy,
Peter G. Smith, and Mark Rolfe .......................................3912

CCR Special Focus

From the Editor. Susan E. Bates ........................................3917

Epigenetic Modifiers: Basic Understanding and Clinical Development. Richard L. Piekacz
and Susan E. Bates ...............................................................3918

Cancer DNA Methylation: Molecular Mechanisms and Clinical Implications. Michael T. McCabe,
Johann C. Brandes, and Paula M. Vertino ................................3927

Targeting DNA Methylation. Jean-Pierre J. Issa and Hagop M. Kantarjian ....3938

Cytotoxicity Mediated by Histone Deacetylase Inhibitors in Cancer Cells: Mechanisms and
Potential Clinical Implications. David S. Schrump ................................3947

Clinical Studies of Histone Deacetylase Inhibitors. H. Miles Prince, Mark J. Bishton,
and Simon J. Harrison .........................................................3958

Rational Combinations Using HDAC Inhibitors. Michael Bots and Ricky W. Johnstone ...3970

Human Cancer Biology

Global Gene Expression Analysis of Reactive Stroma in Prostate Cancer. Olga Dakhova,
Mustafa Ozen, Chad J. Creighton, Rile Li, Gustavo Ayala, David Rowley, and Michael Ittmann ...3979

GATA4 and GATA5 are Potential TumorSuppressors and Biomarkers in Colorectal Cancer.
Debbie M.E.I. Hellebrekers, Marjolein H.F.M. Lentjes, Sandra M. van den Bosch, Veerle Melotte,
Kim A.D. Wouters, Kathleen L.J. Daenen, Kim M. Smits, Yoshimitsu Akiyama, Yasuhiro Yuasa,
Silvia Sanduleanu, Carolina A.J. Khalid-de Bakker, Daisy Jonkers, Matty P. Weijenberg, Joost Louwagie,
Wim van Criekinge, Beatriz Carvalho, Gerrit A. Meijer, Stephen B. Baylin, James G. Herman,
Adriaan P. de Bruïne, and Manon van Engeland ........................................3990

MiR-21 Indicates Poor Prognosis in Tongue Squamous Cell Carcinomas as an Apoptosis
Inhibitor. Jinsong Li, Hongzhang Huang, Lijuan Sun, Mei Yang, Chaobin Pan, Weiliang Chen,
Donghui Wu, Zhaoyu Lin, Chunxian Zeng, Yandan Yao, Peter Zhang, and Erwei Song .................3998

Locked Nucleic Acid In situ Hybridization Analysis of miR-21 Expression during Colorectal
Cancer Development. Nobutake Yamamichi, Ryoichi Shimomura, Ken-ichi Inada, Kouhei Sakurai,
Takeshi Haraguchi, Yuka Ozaki, Shuji Fujita, Taketoshi Mizutani, Chihiro Furukawa,
Mitsuhiko Fujishiro, Masao Ichinose, Kazuya Shigomaga, Yutaka Tsutsumi, Masao Omata,
and Hideo Iba ............................................................4009

www.aacrjournals.org

Downloaded from cincancerres.aacrjournals.org on May 15, 2017. © 2009 American Association for Cancer Research.
Fibroblast Growth Factor Receptor 2–Positive Fibroblasts Provide a Suitable Microenvironment for Tumor Development and Progression in Esophageal Carcinoma. Chunyu Zhang, Li Fu, Jianhua Fu, Liang Hu, Hong Yang, Tie-Hua Rong, Yan Li, Haibo Liu, Song-Bin Fu, Yi-Xin Zeng, and Xin-Yuan Guan...........................................................................................................................................4017

Cancer Therapy: Preclinical

The Monoclonal Antibody nBT062 Conjugated to Cytotoxic Maytansinoids Has Selective Cytotoxicity Against CD138-Positive Multiple Myeloma Cells In vitro and In vivo. Hiroshi Ikeda, Teru Hideshima, Mariteresa Fulciniti, Robert J. Lutz, Hiroshi Yasui, Yutaka Okawa, Tanyel Kiziltepe, Sonia Vallet, Samantha Pozzi, Loredana Santo, Giulia Perrone, Yu-Tzu Tai, Diana Cirseta, Noopur S. Raje, Christoph Uhreher, Benjamin Dalken, Silke Aigner, Frank Osterroth, Nikhil Munshi, Paul Richardson, and Kenneth C. Anderson...................................................................................................4028


CL4DC-305, a Novel Synthetic HSP90 Inhibitor with Unique Pharmacologic Properties for Cancer Therapy. Rudi Bao, Cheng-Jung Lai, Hui Qu, Dagong Wang, Ling Yin, Brian Zifcak, Ruzanna Atoyian, Jing Wang, Maria Samson, Jeffrey Forrester, Steven DellaRocca, Guang-Xin Xu, Xu Tao, Hai-Xiao Zhai, Xiong Cai, and Changgeng Qian...........................................................................................................................................4046


High Efficacy of Panobinostat Towards Human Gastrointestinal Stromal Tumors in a Xenograft Mouse Model. Mitsuru Miyachi, Naoki Kakazu, Shigeki Yagyu, Yoshiaki Katsumi, Satoko Tsubai-Shimizu, Ken Kikuchi, Kunihiko Tsuji, Tomoko Ichara, and Hajime Hosoi .................................................................4066

Restoration of p53 Pathway by Nutlin-3 Induces Cell Cycle Arrest and Apoptosis in Human Rhabdomyosarcoma Cells. Giuseppe Floris, Maria Debiec-Rychter, Raf Sciot, Cristina Stefan, Steffen Fieuws, Kathleen Machiels, Peter Atadja, Agnieszka Wozniak, Cavino Faa, and Patrick Schöffski ...........................................................................................................................................4077

Impaired STAT Phosphorylation in T Cells from Melanoma Patients in Response to IL-2: Association with Clinical Stage. Roberta Mortarini, Claudia Veggetti, Alessandra Molla, Flavio Arienti, Fernando Ravagnani, Andrea Maurichi, Roberto Patuzzo, Mario Santinami, and Andrea Anichini...........................................................................................................................................4085


MMPI1: A Novel Target Antigen for Cancer Immunotherapy. Daniela Peruzzi, Federica Mori, Antonella Conforti, Domenico Lazzaro, Emanuele De Rinaldis, Gennaro Ciliberto, Nicola La Monica, and Luigi Aurisicchio...........................................................................................................................................4104


Extranuclear Coactivator Signaling Confers Insensitivity to Tamoxifen. Rakesh Kumar, Hao Zhang, Caroline Holm, Ratna K. Vadlamudi, Goran Landberg, and Suresh K. Rayala...........................................................................................................................................4123

Identifying the Safety Profile of Ad5.SSTR/TK.RGD, a Novel Infectivity-Enhanced Bicistronic Adenovirus, in Anticipation of a Phase I Clinical Trial in Patients with Recurrent Ovarian Cancer. Kellie Matthews, Patricia E. Noker, Baohong Tian, Sheila D. Crimes, Ronna Fulton, Karen Schwalch, Raymond Harris, Rose Aurigemma, Minghui Wang, Mack N. Barnes, Gene P. Siegal, Akseli Hemminki, Kurt Zinn, David T. Curiel, and Ronald D. Alvarez...........................................................................................................................................4131
Antitumor Effects and Biomarkers of Activity of AZD0530, a Src Inhibitor, in Pancreatic Cancer. N. V. Rajeshkumar, Aik Choon Tan, Elizabeth De Oliveira, Chris Womack, Helen Wombwell, Shethlah Morgan, Madhuri V. Warren, Jill Walker, Tim P. Green, Antonio Jimeno, Wells A. Messersmith, and Manuel Hidalgo

Suppression of HER2/HER3-Mediated Growth of Breast Cancer Cells with Combinations of GDC-0941 PI3K Inhibitor, Trastuzumab, and Pertuzumab. Evelyn Yao, Wei Zhou, Si Tuen Lee-Hoeflich, Tom Truong, Peter M. Haverty, Jeffrey Eastham-Anderson, Nicholas Lewin-Koh, Bert Gunter, Marcia Belvin, Lesley J. Murray, Lori S. Friedman, Mark X. Sliwowski, and Klaus P. Hoeflich

High Expression of Mammalian Target of Rapamycin Is Associated with Better Outcome for Patients with Early Stage Lung Adenocarcinoma. Valsamo K. Anagnostou, Gerold Bepler, Konstantinos N. Syrigos, Lynn Tanoue, Scott Gettinger, Robert J. Homer, Daniel Boffa, Frank Detterbeck, and David L. Rimm


Methylation of RASSF1A, RASSF2A, and HIN-1 Is Associated with Poor Outcome after Radiotherapy, but not Surgery, in Oral Squamous Cell Carcinoma. Kuo-Hao Huang, Shiang-Fu Huang, I-How Chen, Chun-Tao Liao, Hung-Ming Wang, and Ling-Ling Hsieh

Local Recurrence after Breast-Conserving Therapy in Relation to Gene Expression Patterns in a Large Series of Patients. Bas Kreike, Hans Halfwerk, Nicola Armstrong, Peter Bult, John A. Foekens, Sanne C. Veltkamp, Dimitry S.A. Nuyten, Harry Bartelink, and Marc J. van de Vijver

Cell Cycle/Apoptosis Molecule Expression Correlates with Imatinib Response in Patients with Advanced Gastrointestinal Stromal Tumors. Salvatore Romeo, Maria Debiec-Rychter, Martine Van Glabbeke, Heidi Van Paassen, Paola Comite, Ronald Van Eijik, Jan Oosting, Jaap Verweij, Philippe Terrier, Ulrike Schneider, Raf Sciot, Jean Yves Blay, and Pancras C.W. Hogendoorn on behalf of the European Organization for Research and Treatment of Cancer Soft Tissue and Bone Sarcoma Group

Changes in Gene Expression Predicting Local Control in Cervical Cancer: Results from Radiation Therapy Oncology Group 0128. Joanne B. Weidhaas, Shu-Xia Li, Kathryn Winter, Janice Ryu, Anuja Jhingran, Bridgette Miller, Adam P. Dicker, and David Gaffney

A Phase I Study of Eribulin Mesylate (E7389), a Mechanistically Novel Inhibitor of Microtubule Dynamics, in Patients with Advanced Solid Malignancies. Sanjay Goel, Alain C. Mita, Monica Mita, Eric K. Rowinsky, Quincy S. Chu, Nancy Wong, Christopher Desjardins, Fang Fang, Mendel Jansen, Dale E. Shuster, Sridhar Mani, and Chris H. Takimoto


Phase I Trial of Pazopanib in Patients with Advanced Cancer. Herbert I. Hurwitz, Afsin Dowlati, Shermini Saini, Shawn Savage, A. Benjamin Suttle, Diana M. Gibson, Jeffrey P. Hodge, Elmar M. Merkle, and Lini Pandite

Coadministration of Ritonavir Strongly Enhances the Apparent Oral Bioavailability of Docetaxel in Patients with Solid Tumors. Roos L. Oostendorp, Alwin Huitema, Hilde Rosing, Robert S. Jansen, Rob ter Heine, Marianne Keessen, Jos H. Beijnen, and Jan H.M. Schellens
**Association of Breast Cancer Stem Cells Identified by Aldehyde Dehydrogenase 1 Expression with Resistance to Sequential Paclitaxel and Epirubicin-Based Chemotherapy for Breast Cancers.** Tomonori Tanei, Koji Morimoto, Kenzo Shimazu, Seung Jin Kim, Yoshio Tanji, Tetsuya Taguchi, Yasuhiro Tamaki, and Shinzaburo Noguchi

**Susceptibility and Prevention**

**Mixed Tocopherols Prevent Mammary Tumorogenesis by Inhibiting Estrogen Action and Activating PPAR-γ.** Hong Jin Lee, Jihyeung Ju, Shiby Paul, Jae-Young So, Andrew DeCastro, Amanda Smolarek, Mao-Jung Lee, Chung S. Yang, Harold L. Newmark, and Nanjoo Suh

**About the Cover**

Reactive stroma from prostate cancer and normal prostatic stroma was laser captured, RNAs were amplified and gene expression analyzed using expression microarrays. A total of 1141 genes were differentially expressed in reactive compared with normal stroma. The Human Protein Reference Database catalogue of over 35,000 known physical protein-protein interactions was queried to determine how the reactive stroma-associated genes relate to each other in terms of interactions between their associated proteins. A total of 292 interactions were visualized as a graphical network. A view of the central node is shown. For further details, please see Dakhova and colleagues on page 3979 in this issue.
Clinical Cancer Research

15 (12)


Updated version
Access the most recent version of this article at:
http://clincancerres.aacrjournals.org/content/15/12

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, contact the AACR Publications Department at permissions@aacr.org.