

CCR Translations

A Systems Approach to Analysis of Molecular Complexity in Breast Cancer.

□□ *Commentary on Andre et al., p. 441*

Bryan T. Hennessy, Ana Maria Gonzalez-Angulo, Mark S. Carey, and Gordon B. Mills417

Molecular Pathways

Targeting the Apoptosome for Cancer Therapy. Elizabeth C. Ledgerwood and Ian M. Morison420

Targeting Inflammatory Pathways for Prevention and Therapy of Cancer: Short-Term Friend, Long-Term Foe. Bharat B. Aggarwal, R.V. Vijayalekshmi, and Bokyoung Sung425

Review

Clinical Applications of Metabolomics in Oncology: A Review. Jennifer L. Spratlin, Natalie J. Serkova, and S. Gail Eckhardt431

Human Cancer Biology

Molecular Characterization of Breast Cancer with High-Resolution Oligonucleotide Comparative Genomic Hybridization Array. Fabrice Andre, Bastien Job, Philippe Dessen, Attila Tordai, Stefan Michiels, Cornelia Liedtke, Catherine Richon, Kai Yan, Bailang Wang, Gilles Vassal, Suzette Delaloge, Gabriel N. Hortobagyi, W. Fraser Symmans, Vladimir Lazar, and Lajos Pusztai441

Targeted Knockdown of *Notch1* Inhibits Invasion of Human Prostate Cancer Cells Concomitant with Inhibition of Matrix Metalloproteinase-9 and Urokinase Plasminogen Activator. Bilal Bin Hafeez, Vaqar Mustafa Adhami, Mohammad Asim, Imtiaz A. Siddiqui, Kumar M. Bhat, Weixiong Zhong, Mohammad Saleem, Maria Din, Vijayasaradhi Setaluri, and Hasan Mukhtar452

Functional Analysis of Epidermal Growth Factor Receptor (EGFR) Mutations and Potential Implications for EGFR Targeted Therapy. Rama Krishna Kancha, Nikolas von Bubnoff, Christian Peschel, and Justus Duyster460

Molecular Alterations at 9q33.1 and Polyploidy in Asbestos-Related Lung Cancer. Penny Nymark, Eeva Kettunen, Mervi Aavikko, Salla Ruosaari, Eeva Kuosma, Esa Vanhala, Kaisa Salmenkivi, Risto Pirinen, Antti Karjalainen, Sakari Knuutila, Harriet Wikman, and Sisko Anttila468

Mitochondrial Mutations Contribute to HIF1 α Accumulation via Increased Reactive Oxygen Species and Up-regulated Pyruvate Dehydrogenase Kinase 2 in Head and Neck Squamous Cell Carcinoma. Wenyue Sun, Shaoyu Zhou, Steven S. Chang, Thomas McFate, Ajay Verma, and Joseph A. Califano476

High Rate of BRAF and RET/PTC Dual Mutations Associated with Recurrent Papillary Thyroid Carcinoma. Ying C. Henderson, Thomas D. Shellenberger, Michelle D. Williams, Adel K. El-Naggar, Mitchell J. Fredrick, Kathleen M. Cieply, and Gary L. Clayman485

Sp-1 and c-Myc Mediate Lysophosphatidic Acid-Induced Expression of Vascular Endothelial Growth Factor in Ovarian Cancer Cells via a Hypoxia-Inducible Factor-1-Independent Mechanism. Yuanda Song, Jinhua Wu, Regina A. Oyesanya, Zendra Lee, Abir Mukherjee, and Xianjun Fang492

Genomic and Molecular Profiling Predicts Response to Temozolomide in Melanoma. Christina K. Augustine, Jin Soo Yoo, Anil Potti, Yasunori Yoshimoto, Patricia A. Zipfel, Henry S. Friedman, Joseph R. Nevins, Francis Ali-Osman, and Douglas S. Tyler	502
Improvement of Gemcitabine-Based Therapy of Pancreatic Carcinoma by Means of Oncolytic Parvovirus H-1PV. Assia L. Angelova, Marc Aprahamian, Svitlana P. Grekova, Amor Hajri, Barbara Leuchs, Nathalia A. Giese, Christiane Dinsart, Alexia Herrmann, Ginette Balboni, Jean Rommelaere, and Zahari Raykov	511
Bortezomib, Dexamethasone, and Fibroblast Growth Factor Receptor 3–Specific Tyrosine Kinase Inhibitor in t(4;14) Myeloma. Guido Bisping, Doris Wenning, Martin Kropff, Dirk Gustavus, Carsten Müller-Tidow, Matthias Stelljes, Gerd Munzert, Frank Hilberg, Gerald J. Roth, Martin Stefanic, Sarah Volpert, Rolf M. Mesters, Wolfgang E. Berdel, and Joachim Kienast.....	520
Delta-Crystallin Enhancer Binding Factor 1 Controls the Epithelial to Mesenchymal Transition Phenotype and Resistance to the Epidermal Growth Factor Receptor Inhibitor Erlotinib in Human Head and Neck Squamous Cell Carcinoma Lines. Yasmine Haddad, Woonyoung Choi, and David J. McConkey.....	532
Enhancement of Docetaxel Anticancer Activity by a Novel Diindolylmethane Compound in Human Non–Small Cell Lung Cancer. Nkechi Ichite, Mahavir B. Chougule, Tanise Jackson, Suniket V. Fulzele, Stephen Safe, and Mandip Singh	543
Enhanced Delivery of Cisplatin to Intraperitoneal Ovarian Carcinomas Mediated by the Effects of Bortezomib on the Human Copper Transporter 1. Danielle D. Jandial, Salman Farshchi-Heydari, Christopher A. Larson, Gregory I. Elliott, Wolfgang J. Wrasidlo, and Stephen B. Howell	553
Improved Systemic Delivery of Oncolytic Reovirus to Established Tumors Using Preconditioning with Cyclophosphamide-Mediated Treg Modulation and Interleukin-2. Timothy Kottke, Jill Thompson, Rosa Maria Diaz, Jose Pulido, Candice Willmon, Matt Coffey, Peter Selby, Alan Melcher, Kevin Harrington, and Richard G. Vile.....	561
Combination of Proteasome and HDAC Inhibitors for Uterine Cervical Cancer Treatment. Zhenhua Lin, Martina Bazzaro, Mei-Cheng Wang, Kwun C. Chan, Shiwen Peng, and Richard B.S. Roden	570
Dominant Effect of Antiangiogenesis in Combination Therapy Involving Cyclophosphamide and Axitinib. Jie Ma and David J. Waxman.....	578
Inhibition of mTOR Radiosensitizes Soft Tissue Sarcoma and Tumor Vasculature. James D. Murphy, Aaron C. Spalding, Yash R. Somnay, Sonja Markwart, Michael E. Ray, and Daniel A. Hamstra.....	589
Invariant Natural Killer T Cells Regulate Breast Cancer Response to Radiation and CTLA-4 Blockade. Karsten A. Pilonis, Noriko Kawashima, Anne Marie Yang, James S. Babb, Silvia C. Formenti, and Sandra Demaria.....	597
<i>In vitro</i> and <i>In vivo</i> Radiosensitization of Glioblastoma Cells by the Poly (ADP-Ribose) Polymerase Inhibitor E7016. Andrea L. Russo, Hyuk-Chan Kwon, William E. Burgan, Donna Carter, Katie Beam, Xu Weizheng, Jie Zhang, Barbara S. Slusher, Arnab Chakravarti, Philip J. Tofilon, and Kevin Camphausen.....	607
Silibinin Suppresses Growth of Human Prostate Carcinoma PC-3 Orthotopic Xenograft via Activation of Extracellular Signal-Regulated Kinase 1/2 and Inhibition of Signal Transducers and Activators of Transcription Signaling. Rana P. Singh, Komal Raina, Gagan Deep, Daniel Chan, and Rajesh Agarwal.....	613
Polyphenon E Inhibits the Growth of Human Barrett’s and Aerodigestive Adenocarcinoma Cells by Suppressing Cyclin D1 Expression. Shumei Song, Koyamangalath Krishnan, Kaifeng Liu, and Robert S. Bresalier.....	622

Obstructing Shedding of the Immunostimulatory MHC Class I Chain–Related Gene B Prevents Tumor Formation. Jennifer D. Wu, Catherine L. Atteridge, Xuanjun Wang, Tsukasa Seya, and Stephen R. Plymate.....632

A Novel Cancer Therapy by Skin Delivery of Indoleamine 2,3-Dioxygenase siRNA. Meng-Chi Yen, Chi-Chen Lin, Yi-Ling Chen, Shih-Shien Huang, Huei-Jiun Yang, Chih-Peng Chang, Huan-Yao Lei, and Ming-Derg Lai.....641

Imaging, Diagnosis, Prognosis

Prognostic Value of Tumor Necrosis Factor–Related Apoptosis-Inducing Ligand (TRAIL) and TRAIL Receptors in Renal Cell Cancer. Stephan Macher-Goeppinger, Sebastian Aulmann, Katrin E. Tagscherer, Nina Wagener, Axel Haferkamp, Roland Penzel, Antje Brauckhoff, Markus Hohenfellner, Jaromir Sykora, Henning Walczak, Bin T. Teh, Frank Autschbach, Esther Herpel, Peter Schirmacher, and Wilfried Roth.....650

The Expression of Phospho-AKT, Phospho-mTOR, and PTEN in Extrahepatic Cholangiocarcinoma. Joon-Yong Chung, Seung-Mo Hong, Byeong Yeob Choi, HyungJun Cho, Eunsil Yu, and Stephen M. Hewitt.....660

Molecular Classification and Prognostication of Adrenocortical Tumors by Transcriptome Profiling. Thomas J. Giordano, Rork Kuick, Tobias Else, Paul G. Gauger, Michelle Vinco, Juliane Bauersfeld, Donita Sanders, Dafydd G. Thomas, Gerard Doherty, and Gary Hammer.....668

Disseminated Tumor Cells in Prostate Cancer Patients after Radical Prostatectomy and without Evidence of Disease Predicts Biochemical Recurrence. Todd M. Morgan, Paul H. Lange, Michael P. Porter, Daniel W. Lin, William J. Ellis, Ian S. Gallaher, and Robert L. Vessella.....677

Prospective Internal Validation of Mathematical Models to Predict Malignancy in Adnexal Masses: Results from the International Ovarian Tumor Analysis Study. Caroline Van Holsbeke, Ben Van Calster, Antonia C. Testa, Ekaterini Domali, Chuan Lu, Sabine Van Huffel, Lil Valentin, and Dirk Timmerman.....684

Cancer Therapy: Clinical

Safety, Pharmacokinetics, and Efficacy of CPX-1 Liposome Injection in Patients with Advanced Solid Tumors. Gerald Batist, Karen A. Gelmon, Kim N. Chi, Wilson H. Miller, Jr., Stephen K.L. Chia, Lawrence D. Mayer, Christine E. Swenson, Andrew S. Janoff, and Arthur C. Louie.....692

Phase I and Pharmacokinetic Studies of Erlotinib Administered Concurrently with Radiotherapy for Children, Adolescents, and Young Adults with High-Grade Glioma. Alberto Broniscer, Suzanne J. Baker, Clinton F. Stewart, Thomas E. Merchant, Fred H. Laningham, Paula Schaiquevich, Mehmet Kocak, E. Brannon Morris, Raelene Endersby, David W. Ellison, and Amar Gajjar.....701

Phase II Trial of OGX-011 in Combination with Docetaxel in Metastatic Breast Cancer. Stephen Chia, Susan Dent, Susan Ellard, Peter M. Ellis, Ted Vandenberg, Karen Gelmon, Jean Powers, Wendy Walsh, Lesley Seymour, and Elizabeth A. Eisenhauer.....708

Clinical and Immunohistochemical Features Associated with a Response to Bortezomib in Patients with Multiple Myeloma. Mark A. Dawson, Stephen S. Opat, Yamna Taouk, Mark Donovan, Michele Zammit, Katherine Monaghan, Noemi Horvath, Andrew W. Roberts, H. Miles Prince, Mark Hertzberg, Catriona A. McLean, and Andrew Spencer.....714

Phase I and Pharmacokinetic Study of XRP6258 (RPR 116258A), a Novel Taxane, Administered as a 1-Hour Infusion Every 3 Weeks in Patients with Advanced Solid Tumors. Alain C. Mita, Louis J. Denis, Eric K. Rowinsky, Johann S. DeBono, Andrew D. Goetz, Leonel Ochoa, Bahram Forouzesh, Muralidhar Beeram, Amita Patnaik, Kathleen Molpus, Dorothée Semiond, Michèle Besenval, and Anthony W. Tolcher.....723

Stromal Matrix Protein Expression Following Preoperative Systemic Therapy in Breast Cancer. Anna-Maria Tokes, Attila Marcell Szasz, Andrea Farkas, Adrienn Ildiko Toth, Magdolna Dank, Laszlo Harsanyi, Bela Akos Molnar, Istvan Arthur Molnar, Zsolt Laszlo, Zoltan Rusz, and Janina Kulka	731
--	-----

Cancer Prevention and Susceptibility

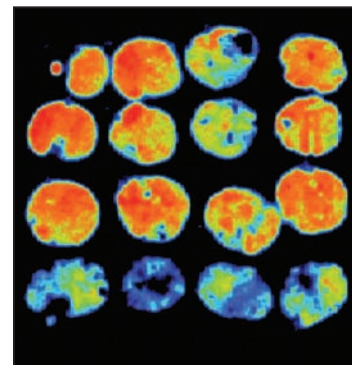
DNA Repair Gene Polymorphisms and Risk of Pancreatic Cancer. Donghui Li, Hideo Suzuki, Bingrong Liu, Jeffrey Morris, Jun Liu, Taro Okazaki, Yanan Li, Ping Chang, and James L. Abbruzzese	740
--	-----

Letters to the Editor

Heat-Solubilized Curcumin Should Be Considered in Clinical Trials for Increasing Bioavailability. Biji T. Kurien and R. Hal Scofield	747
Reply to the Letter to the Editor from Razelle Kurzrock and Navneet Dhillon	747

About the Cover

A multiplex tissue immunoblotting analysis of phospho-mTOR in extrahepatic cholangiocarcinoma. Multiplex tissue immunoblotting is a method of transferring proteins from a formalin-fixed, paraffin-embedded tissue section to a stack of replicate membranes, which can then be probed with antibodies by conventional immunoblotting methods. Using this approach, total protein and target antigen signals can be simultaneously determined on each membrane as a means of normalization. As the membranes are replicates, ratio-based measurements of different target antigens can be made. The cover image is a scan of a single membrane, probed with a fluorescent secondary antibody, showing the relative signal as visualized by pseudo-color, where signal intensity is white-red-yellow-green-blue-black from maximum to minimum signal. The ratios of different proteins in the AKT pathway predict survival in extrahepatic cholangiocarcinoma. For further details, please see Chung and coworkers on page 660 in this issue.



Clinical Cancer Research

15 (2)

Clin Cancer Res 2009;15:417-747.

Updated version Access the most recent version of this article at:
<http://clincancerres.aacrjournals.org/content/15/2>

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/15/2>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.