

Cancer Research

A Journal of the American Association for Cancer Research

Volume 67 • Number 23

December 1, 2007 • Pages 11093–11470

Reviews

Nuclear Factor- κ B, an Unappreciated Tumor Suppressor. Fei Chen and Vince Castranova11093

The Guardian's Little Helper: MicroRNAs in the p53 Tumor Suppressor Network. Xingyue He, Lin He, and Gregory J. Hannon.....11099

Meeting Report

Nineteenth Annual Pezcoller Symposium: Hypothesis-Driven Clinical Investigation in Cancer. William G. Kaelin, Charles L. Sawyers, and Enrico Mihich11102

Priority Reports

Polo-like Kinase 1 Is Involved in Invasion through Extracellular Matrix. Aylin Rizki, Joni D. Mott, and Mina J. Bissell11106

MicroRNAs as Potential Agents to Alter Resistance to Cytotoxic Anticancer Therapy. Joanne B. Weidhaas, Imran Babar, Sunitha M. Nallur, Phong Trang, Sarah Roush, Michelle Boehm, Erin Gillespie, and Frank J. Slack.....11111

Cells Deficient in the FANCD1/BRCA Pathway Are Hypersensitive to Plasma Levels of Formaldehyde. John R. Ridpath, Ayumi Nakamura, Keizo Tano, April M. Luke, Eiichiro Sonoda, Hiroshi Arakawa, Jean-Marie Buerstedde, David A.F. Gillespie, Julian E. Sale, Mitsuyoshi Yamazoe, Douglas K. Bishop, Minoru Takata, Shunichi Takeda, Masami Watanabe, James A. Swenberg, and Jun Nakamura11117

Plasma Cysteinylglycine Levels and Breast Cancer Risk in Women. Jennifer Lin, JoAnn E. Manson, Jacob Selhub, Julie E. Buring, and Shumin M. Zhang11123

Variants on 9p24 and 8q24 Are Associated with Risk of Colorectal Cancer: Results from the Colon Cancer Family Registry. Jenny N. Poynter, Jane C. Figueiredo, David V. Conti, Kathleen Kennedy, Steven Gallinger, Kimberly D. Siegmund, Graham Casey, Stephen N. Thibodeau, Mark A. Jenkins, John L. Hopper, Graham B. Byrnes, John A. Baron, Ellen L. Goode, Maarit Tiirikainen, Noralane Lindor, John Grove, Polly Newcomb, Jeremy Jass, Joanne Young, John D. Potter, Robert W. Haile, David J. Duggan, and Loic Le Marchand, for the Colon CFR.....11128

Molecular Biology, Pathobiology, and Genetics

Direct Transcriptional Activation of Promyelocytic Leukemia Protein by IFN Regulatory Factor 3 Induces the p53-Dependent Growth Inhibition of Cancer Cells. Tae-Kyung Kim, Joong-Seob Lee, Se-Young Oh, Xun Jin, Yun-Jaie Choi, Tae-Hoon Lee, Eun ho Lee, Young-Ki Choi, Seungkwon You, Yong Gu Chung, Jang-Bo Lee, Ronald A. DePinho, Lynda Chin, and Hyunggee Kim11133

Role of CYP2E1 in Diethylnitrosamine-Induced Hepatocarcinogenesis *In vivo*. Jin Seok Kang, Hideki Wanibuchi, Keiichirou Morimura, Frank J. Gonzalez, and Shoji Fukushima.....11141

Epithelial to Mesenchymal Transition in Human Breast Epithelial Cells Transformed by 17 β -Estradiol. Yong Huang, Sandra V. Fernandez, Shirlean Goodwin, Patricia A. Russo, Irma H. Russo, Thomas R. Sutter, and Jose Russo11147

Novel NBS1 Heterozygous Germ Line Mutation Causing MRE11-Binding Domain Loss Predisposes to Common Types of Cancer. Hiromichi Ebi, Keitaro Matsuo, Nobuyoshi Sugito, Motoshi Suzuki, Hirotaka Osada, Kazuo Tajima, Ryuzo Ueda, and Takashi Takahashi11158

Sigma-1 Receptors Bind Cholesterol and Remodel Lipid Rafts in Breast Cancer Cell Lines. Christopher P. Palmer, Robert Mahen, Eva Schnell, Mustafa B.A. Djamgoz, and Ebru Aydar11166

Adaptor Protein LAPF Recruits Phosphorylated p53 to Lysosomes and Triggers Lysosomal Destabilization in Apoptosis. Nan Li, Yuanyuan Zheng, Wei Chen, Chunmei Wang, Xingguang Liu, Weigang He, Hongmei Xu, and Xuetao Cao.....11176

Aurora-A Kinase Regulates Breast Cancer-Associated Gene 1 Inhibition of Centrosome-Dependent Microtubule Nucleation. Satish Sankaran, Donna E. Crone, Robert E. Palazzo, and Jeffrey D. Parvin11186

Differing Phenotypes between Intraepithelial and Stromal Lymphocytes in Early-Stage Tongue Cancer. Fuminori Katou, Haruo Ohtani, Yoshiko Watanabe, Takashi Nakayama, Osamu Yoshie, and Kenji Hashimoto11195

CD83 Gene Polymorphisms Increase Susceptibility to Human Invasive Cervical Cancer. Zhengyan Zhang, Ingrid Borecki, Loan Nguyen, Duanduan Ma, Kimberly Smith, Phyllis C. Huettner, David G. Mutch, Thomas J. Herzog, Randall K. Gibb, Matthew A. Powell, Perry W. Grigsby, L. Stewart Massad, Enrique Hernandez, Patricia L. Judson, Elizabeth M. Swisher, Sara Crowder, Jianduan Li, Daniela S. Gerhard, and Janet S. Rader11202

c-myc Repression of TSC2 Contributes to Control of Translation Initiation and Myc-Induced Transformation. Michael J. Ravitz, Li Chen, Mary Lynch, and Emmett V. Schmidt.....11209

Trafl1 Induction and Protection from Tumor Necrosis Factor by Nuclear Factor- κ B p65 Is Independent of Serine 536 Phosphorylation. Carl Y. Sasaki, Colin F. Slemenda, Paritosh Ghosh, Theresa J. Barberi, and Dan L. Longo11218

Identification of Novel Modifier Loci of *Apc*^{Min} Affecting Mammary Tumor Development. Hua Wang, Douglas Teske, Alyssa Tess, Rebecca Kohlhepp, YounJeong Choi, Christina Kendziorski, and Amy Rapaich Moser.....11226

Cell, Tumor, and Stem Cell Biology

Neuroblastoma Cells Isolated from Bone Marrow Metastases Contain a Naturally Enriched Tumor-Initiating Cell. Loen M. Hansford, Amy E. McKee, Libo Zhang, Rani E. George, J. Ted Gerstle, Paul S. Thorne, Kristen M. Smith, A. Thomas Look, Herman Yeger, Freda D. Miller, Meredith S. Irwin, Carol J. Thiele, and David R. Kaplan11234

Delta-like 4 Notch Ligand Regulates Tumor Angiogenesis, Improves Tumor Vascular Function, and Promotes Tumor Growth *In vivo*. Ji-Liang Li, Richard C.A. Sainson, Wen Shi, Russell Leek, Laura S. Harrington, Matthias Preusser, Swethajit Biswas, Helen Turley, Emily Heikamp, Johannes A. Hainfellner, and Adrian L. Harris11244

Epithelial-Mesenchymal Transition Events during Human Embryonic Stem Cell Differentiation. Angela M. Eastham, Helen Spencer, Francesca Soncin, Sarah Ritson, Catherine L.R. Merry, Peter L. Stern, and Christopher M. Ward.....11254

Contents (Continued)

Runx2 Disruption Promotes Immortalization and Confers Resistance to Oncogene-Induced Senescence in Primary Murine Fibroblasts.

Anna Kilbey, Karen Blyth, Sandy Wotton, Anne Terry, Alma Jenkins, Margaret Bell, Linda Hanlon, Ewan R. Cameron, and James C. Neil11263

Differential Regulation of Elafin in Normal and Tumor-Derived Mammary Epithelial Cells Is Mediated by CCAAT/Enhancer Binding Protein β .

Tomoya Yokota, Tuyen Bui, Yanna Liu, Min Yi, Kelly K. Hunt, and Khandan Keyomarsi11272

Choline Kinase Down-regulation Increases the Effect of

5-Fluorouracil in Breast Cancer Cells. Noriko Mori, Kristine Glunde, Tomoyo Takagi, Venu Raman, and Zaver M. Bhujwala11284

Experimental Therapeutics, Molecular Targets, and Chemical Biology

WP1066 Disrupts Janus Kinase-2 and Induces Caspase-Dependent Apoptosis in Acute Myelogenous Leukemia Cells.

Alessandra Ferrajoli, Stefan Faderl, Quin Van, Patricia Koch, David Harris, Zhiming Liu, Inbal Hazan-Halevy, Yongtao Wang, Hagop M. Kantarjian, Waldemar Priebe, and Zeev Estrov11291

Targeting Protein Translation in Human Non-Small Cell Lung Cancer via Combined MEK and Mammalian Target of Rapamycin

Suppression. Marie-Emmanuelle Legrier, Chia-Ping Huang Yang, Han-Guang Yan, Lluís Lopez-Barcons, Steven M. Keller, Roman Pérez-Soler, Susan Band Horwitz, and Hayley M. McDaid11300

An Oncolytic Adenovirus Redirected with a Tumor-Specific T-Cell

Receptor. Zsolt Sebestyen, Jeroen de Vrij, Maria Magnusson, Reno Debets, and Ralph Willemsen11309

Ribosomal Protein S27-like, a p53-Inducible Modulator of Cell Fate in Response to Genotoxic Stress.

Jingsong Li, Jing Tan, Li Zhuang, Birendranath Banerjee, Xiaojing Yang, Jenny Fung Ling Chau, Puay Leng Lee, Manoor Prakash Hande, Baojie Li, and Qiang Yu11317

Histone Deacetylase Inhibitors Promote the Tumorcidal Effect of HAMLET.

Patrick Brest, Mattias Gustafsson, Ann-Kristin Mossberg, Lotta Gustafsson, Caroline Düringer, Ali Hamiche, and Catharina Svanborg11327

Drug Sensitivity Prediction by CpG Island Methylation Profile in the NCI-60 Cancer Cell Line Panel.

Lanlan Shen, Yutaka Kondo, Saira Ahmed, Yanis Boumber, Kazuo Konishi, Yi Guo, Xinli Chen, Jill N. Vilaythong, and Jean-Pierre J. Issa11335

Novel Quinazoline-Based Compounds Impair Prostate

Tumorigenesis by Targeting Tumor Vascularity. Jason B. Garrison, Yeng-Jeng Shaw, Ching-Shih Chen, and Natasha Kyprianou11344

Gpx2 Is an Overexpressed Gene in Rat Breast Cancers Induced by

Three Different Chemical Carcinogens. Aya Naiki-Ito, Makoto Asamoto, Naomi Hokaiwado, Satoru Takahashi, Hiroko Yamashita, Hiroyuki Tsuda, Kumiko Ogawa, and Tomoyuki Shirai11353

The Novel Combination of Chlorpromazine and Pentamidine Exerts Synergistic Antiproliferative Effects through Dual Mitotic Action.

Margaret S. Lee, Lisa Johansen, Yanzhen Zhang, Amy Wilson, Mitchell Keegan, William Avery, Peter Elliott, Alexis A. Borisov, and Curtis T. Keith11359

Genetic Alterations in the Tyrosine Kinase Transcriptome of Human

Cancer Cell Lines. Jens E. Ruhe, Sylvia Streit, Stefan Hart, Chee-Hong Wong, Katja Specht, Pjotr Knyazev, Tatjana Knyazeva, Liang Seah Tay, Hooi Linn Loo, Priscilla Foo, Winnie Wong, Sharon Pok, Shu Jing Lim, Huimin Ong, Ming Luo, Han Kiat Ho, Kaitian Peng, Tze Chuen Lee, Martin Bezler, Christian Mann, Silvia Gaertner, Heinz Hoefler, Stefano Iacobelli, Stephan Peter, Alice Tay, Sydney Brenner, Byrappa Venkatesh, and Axel Ullrich11368

Down-regulation of Platelet-Derived Growth Factor-D Inhibits Cell Growth and Angiogenesis through Inactivation of Notch-1 and Nuclear Factor- κ B Signaling.

Zhiwei Wang, Dejuan Kong, Sanjeev Banerjee, Yiwei Li, N. Volkan Adsay, James Abbruzzese, and Fazlul H. Sarkar11377

Automated, Quantitative Screening Assay for Antiangiogenic Compounds Using Transgenic Zebrafish.

T. Cameron Tran, Blossom Sneed, Jamil Haider, Delali Blavo, Audrey White, Temitope Aiyejorun, Timothy C. Baranowski, Amy L. Rubinstein, Thanh N. Doan, Raymond Dingleline, and Eric M. Sandberg11386

Cks1 Regulates cdk1 Expression: A Novel Role during Mitotic Entry in Breast Cancer Cells.

Louise Westbrook, Marina Manuvakhova, Francis G. Kern, Norman R. Estes II, Harish N. Ramanathan, and Jaideep V. Thottassery11393

The p38 MAPK Pathway Mediates Aryl Propionic Acid-Induced Messenger RNA Stability of p75^{NTR} in Prostate Cancer Cells.

Emily J. Quann, Fatima Khwaja, and Daniel Djakiew11402

Identification of Genes Required for Protection from Doxorubicin by a Genome-Wide Screen in *Saccharomyces cerevisiae*.

Ling Xia, Lahcen Jaafar, Anil Cashikar, and Hernan Flores-Rozas11411

Identification and Characterization of a Membrane Receptor for Proteolysis-Inducing Factor on Skeletal Muscle.

Penio T. Todorov, Stacey M. Wyke, and Michael J. Tisdale11419

Immunology

Sustained Antigen-Specific Antitumor Recall Response Mediated by Gene-Modified CD4⁺ T Helper-1 and CD8⁺ T Cells.

Maria Moeller, Michael H. Kershaw, Rachel Cameron, Jennifer A. Westwood, Joseph A. Trapani, Mark J. Smyth, and Phillip K. Darcy11428

Amino-Biphosphonate-Mediated MMP-9 Inhibition Breaks the Tumor-Bone Marrow Axis Responsible for Myeloid-Derived

Suppressor Cell Expansion and Macrophage Infiltration in Tumor Stroma. Cecilia Melani, Sabina Sangaletti, Francesca M. Barazzetta, Zena Werb, and Mario P. Colombo11438

Suppression of Proximal T Cell Receptor Signaling and Lytic Function in CD8⁺ Tumor-Infiltrating T Cells.

Ngozi Monu and Alan B. Frey11447

Epidemiology

The Cooked Meat Carcinogen 2-Amino-1-Methyl-6-Phenylimidazo

[4,5-*b*]Pyridine Activates the Extracellular Signal-Regulated Kinase Mitogen-Activated Protein Kinase Pathway. Stuart K. Creton, Huijun Zhu, and Nigel J. Gooderham11455

Prevention

3'-Deoxy-3'-[¹⁸F]Fluorothymidine Positron Emission Tomography Is a Sensitive Method for Imaging the Response of BRAF-Dependent

Tumors to MEK Inhibition. David B. Solit, Elmer Santos, Christine A. Pratilas, Jose Lobo, Maxim Moroz, Shangde Cai, Ronald Blasberg, Judith Sebolt-Leopold, Steven Larson, and Neal Rosen11463

Correction

Correction: Np-1 Interacts with c-Met11470

Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

67 (23)

Cancer Res 2007;67:11093-11470.

Updated version	Access the most recent version of this article at: http://cancerres.aacrjournals.org/content/67/23
Supplementary Material	Access the most recent supplemental material at: http://cancerres.aacrjournals.org/content/suppl/2008/02/04/67.23.DC1

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://cancerres.aacrjournals.org/content/67/23>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.