

Cancer Research

A Journal of the American Association for Cancer Research

Volume 68 • Number 1

January 1, 2008 • Pages 1–338

Editorial

The Year Ahead. Frank J. Rauscher III1

Reviews

An Intracellular Signal Pathway That Regulates Cancer Cell Adhesion in Response to Extracellular Forces. Marc D. Basson2

Is B-Raf a Good Therapeutic Target for Melanoma and Other Malignancies? SubbaRao V. Madhunapantula and Gavin P. Robertson5

Perspectives in Cancer Research

Yin-Yang Activities and Vicious Cycles in the Tumor Microenvironment. Isaac P. Witz9

Priority Reports

Allelic Imbalance at rs6983267 Suggests Selection of the Risk Allele in Somatic Colorectal Tumor Evolution. Sari Tuupanen, Iina Niittymäki, Kari Nousiainen, Sakari Vanharanta, Jukka-Pekka Mecklin, Kyösti Nuorva, Heikki Järvinen, Sampsa Hautaniemi, Auli Karhu, and Lauri A. Aaltonen14

Circulating Colony Stimulating Factor-1 and Breast Cancer Risk. Rulla M. Tamimi, Joan S. Brugge, Matthew L. Freedman, Alexander Miron, J. Dirk Iglehart, Graham A. Colditz, and Susan E. Hankinson18

RASSF1A Polymorphism A133S Is Associated with Early Onset Breast Cancer in BRCA1/2 Mutation Carriers. Boning Gao, Xian-Jin Xie, Chunxian Huang, David S. Shames, Tina T-L. Chen, Cheryl M. Lewis, Aihua Bian, Bifeng Zhang, Olufunmilayo I. Olopade, Judy E. Garber, David M. Euhus, Gail E. Tomlinson, and John D. Minna22

Molecular Biology, Pathobiology, and Genetics

Distinctive MicroRNA Profiles Relating to Patient Survival in Esophageal Squamous Cell Carcinoma. Yong Guo, Zhaoli Chen, Liang Zhang, Fang Zhou, Susheng Shi, Xiaoli Feng, Baozhong Li, Xin Meng, Xi Ma, Mingyong Luo, Kang Shao, Ning Li, Bin Qiu, Keith Mitchelson, Jing Cheng, and Jie He26

A Macrophage Gene Expression Signature Defines a Field Effect in the Lung Tumor Microenvironment. Robert S. Stearman, Lori Dwyer-Nield, Michael C. Grady, Alvin M. Malkinson, and Mark W. Geraci34

Genome-Wide Transcriptional Response to 5-Aza-2'-Deoxycytidine and Trichostatin A in Multiple Myeloma Cells. Gerwin Heller, Wolfgang M. Schmidt, Barbara Ziegler, Sonja Holzer, Leonhard Müllauer, Martin Bilban, Christoph C. Zielinski, Johannes Drach, and Sabine Zöchbauer-Müller44

LKB1 Deficiency Sensitizes Mice to Carcinogen-Induced Tumorigenesis. Sushma Gurumurthy, Aram F. Hezel, Justin H. Berger, Marcus W. Bosenberg, and Nabeel Bardeesy55

Crucial Role of Phospholipase C ϵ in Skin Inflammation Induced by Tumor-Promoting Phorbol Ester. Shuzo Ikuta, Hironori Edamatsu, Mingzhen Li, Lizhi Hu, and Tohru Kataoka64

Characterization of TMPRSS2:ETV5 and SLC45A3:ETV5 Gene Fusions in Prostate Cancer. Beth E. Helgeson, Scott A. Tomlins, Nameeta Shah, Bharathi Laxman, Qi Cao, John R. Prensner, Xuhong Cao, Nirmish Singla, James E. Montie, Sooryanarayana Varambally, Rohit Mehra, and Arul M. Chinnaiyan73

Inhibition of MAPK Kinase Signaling Pathways Suppressed Renal Cell Carcinoma Growth and Angiogenesis *In vivo*. Dan Huang, Yan Ding, Wang-Mei Luo, Stephanie Bender, Chao-Nan Qian, Eric Kort, Zhong-Fa Zhang, Kristin VandenBeldt, Nicholas S. Duesbery, James H. Resau, and Bin Tean Teh81

DNA Protein Kinase-Dependent G₂ Checkpoint Revealed following Knockdown of Ataxia-Telangiectasia Mutated in Human Mammary Epithelial Cells. Sonnet J.H. Arlander, Bryan T. Greene, Cynthia L. Innes, and Richard S. Paules89

Twist Promotes Tumor Cell Growth through YB-1 Expression. Masaki Shiota, Hiroto Izumi, Takamitsu Onitsuka, Naoya Miyamoto, Eiji Kashiwagi, Akihiko Kidani, Akira Yokomizo, Seiji Naito, and Kimitoshi Kohno98

Estrogen Induces Repression of the Breast Cancer and Salivary Gland Expression Gene in an Estrogen Receptor α -Dependent Manner. Nancy Bretschneider, Heike Brand, Nicola Miller, Aoife J. Lowery, Michael J. Kerin, Frank Gannon, and Stefanie Denger106

Cell, Tumor, and Stem Cell Biology

Thromboxane A₂ Receptors in Prostate Carcinoma: Expression and Its Role in Regulating Cell Motility via Small GTPase Rho. Daotai Nie, Yande Guo, Dianer Yang, Yong Tang, Yakun Chen, Man-Tzu Wang, Alex Zacharek, Yan Qiao, Mingxin Che, and Kenneth V. Honn115

Conservation of Genetic Alterations in Recurrent Melanoma Supports the Melanoma Stem Cell Hypothesis. Marianna Sabatino, Yingdong Zhao, Sonia Voiculescu, Alessandro Monaco, Paul Robbins, Laszlo Karai, Brian J. Nickoloff, Michele Maio, Silvia Sella, Francesco M. Marincola, and Ena Wang122

Contents (Continued)

Paxillin Is a Target for Somatic Mutations in Lung Cancer: Implications for Cell Growth and Invasion. Ramasamy Jagadeeswaran, Hanna Surawska, Soundararajan Krishnaswamy, Varalakshmi Janamanchi, A. Craig Mackinnon, Tanguy Y. Seiwert, Sivakumar Loganathan, Rajani Kanteti, Trevor Reichman, Vidya Nallasura, Stuart Schwartz, Leonardo Faoro, Yi-Ching Wang, Luc Girard, Maria S. Tretiakova, Salman Ahmed, Osvaldo Zumba, Lioubov Soulii, Vytas P. Bindokas, Livia L. Szeto, Gavin J. Gordon, Raphael Bueno, David Sugarbaker, Mark W. Lingen, Martin Sattler, Thomas Krausz, Wickii Vigneswaran, Viswanathan Natarajan, John Minna, Everett E. Vokes, Mark K. Ferguson, Aliya N. Husain, and Ravi Salgia132

Therapeutic Window of MuS110, a Single-Chain Antibody Construct Bispecific for Murine EpCAM and Murine CD3. Maria Amann, Klaus Brischwein, Petra Lutterbuesche, Larissa Parr, Laetitia Petersen, Grit Lorenczewski, Eva Krinner, Sandra Bruckmeier, Sandra Lippold, Roman Kischel, Ralf Lutterbuesche, Peter Kufer, Patrick A. Baeuerle, and Bernd Schlereth.....143

Osteopontin Promotes Vascular Endothelial Growth Factor–Dependent Breast Tumor Growth and Angiogenesis via Autocrine and Paracrine Mechanisms. Goutam Chakraborty, Shalini Jain, and Gopal C. Kundu152

Expression of CDK4 or CDK2 in Mouse Oral Cavity Is Retained in Adult Pituitary with Distinct Effects on Tumorigenesis. Everardo Macias, Paula L. Miliani de Marval, Adrian Senderowicz, John Cullen, and Marcelo L. Rodriguez-Puebla.....162

Hypoxia Regulates Choline Kinase Expression through Hypoxia-Inducible Factor-1 α Signaling in a Human Prostate Cancer Model. Kristine Glunde, Tariq Shah, Paul T. Winnard, Jr., Venu Raman, Tomoyo Takagi, Farhad Vesuna, Dmitri Artemov, and Zaver M. Bhujwala172

PAX5/TEL Acts as a Transcriptional Repressor Causing Down-modulation of CD19, Enhances Migration to CXCL12, and Confers Survival Advantage in pre-B1 Cells. Grazia Fazio, Chiara Palmi, Antonius Rolink, Andrea Biondi, and Giovanni Cazzaniga181

Clonogenic Multiple Myeloma Progenitors, Stem Cell Properties, and Drug Resistance. William Matsui, Qiuju Wang, James P. Barber, Sarah Brennan, B. Douglas Smith, Ivan Borrello, Ian McNiece, Lan Lin, Richard F. Ambinder, Craig Peacock, D. Neil Watkins, Carol Ann Huff, and Richard J. Jones190

A Novel Bone Morphogenetic Protein Signaling in Heterotypic Cell Interactions in Prostate Cancer. Shangxin Yang, Linda K. Pham, Chun-Peng Liao, Baruch Frenkel, A. Hari Reddi, and Pradip Roy-Burman198

Experimental Therapeutics, Molecular Targets, and Chemical Biology

A Vascular Targeted Pan Phosphoinositide 3-Kinase Inhibitor Prodrug, SF1126, with Antitumor and Antiangiogenic Activity. Joseph R. Garlich, Pradip De, Nandini Dey, Jing Dong Su, Xiaodong Peng, Antoinette Miller, Ravoori Murali, Yiling Lu, Gordon B. Mills, Vikas Kundra, H-K. Shu, Qiong Peng, and Donald L. Durden206

Molecular Imaging of the Efficacy of Heat Shock Protein 90 Inhibitors in Living Subjects. Carmel T. Chan, Ramasamy Paulmurugan, Olivier S. Gheysens, Joungnam Kim, Gabriela Chiosis, and Sanjiv Sam Gambhir216

Capsiate, a Nonpungent Capsaicin-Like Compound, Inhibits Angiogenesis and Vascular Permeability via a Direct Inhibition of Src Kinase Activity. Bo-Jeong Pyun, Sun Choi, Yoonji Lee, Tae-Woong Kim, Jeong-Ki Min, Yonghak Kim, Byung-Dong Kim, Jeong-Han Kim, Tae-Yoon Kim, Young-Myeong Kim, and Young-Guen Kwon.....227

Transcription Factor Stat5 Synergizes with Androgen Receptor in Prostate Cancer Cells. Shyh-Han Tan, Ayush Dagvadorj, Feng Shen, Lei Gu, Zhiyong Liao, Junaid Abdulghani, Ying Zhang, Edward P. Gelmann, Tobias Zellweger, Zoran Culig, Tapio Visakorpi, Lukas Bubendorf, Robert A. Kirken, James Karras, and Marja T. Nevalainen.....236

Natriuretic Peptide Receptor A as a Novel Anticancer Target. Xiaoyuan Kong, Xiaoqin Wang, Weidong Xu, Sumita Behera, Gary Hellermann, Arun Kumar, Richard F. Lockey, Subhra Mohapatra, and Shyam S. Mohapatra249

Homologous Recombination Is the Principal Pathway for the Repair of DNA Damage Induced by Tirapazamine in Mammalian Cells. James W. Evans, Sophia B. Chernikova, Lisa A. Kachnic, Judit P. Banath, Olivier Sordet, Yvette M. Delahoussaye, Alejandro Treszezamsky, Brian H. Chon, Zhihui Feng, Yongchuan Gu, William R. Wilson, Yves Pommier, Peggy L. Olive, Simon N. Powell, and J. Martin Brown.....257

Arsenic Trioxide Sensitizes Human Glioma Cells, but not Normal Astrocytes, to TRAIL-Induced Apoptosis via CCAAT/Enhancer-Binding Protein Homologous Protein–Dependent DR5 Up-regulation. Eun Hee Kim, Mi Jin Yoon, Seung U. Kim, Taeg Kyu Kwon, Seonghyang Sohn, and Kyeong Sook Choi266

SMAC Mimetics Sensitize Nonsteroidal Anti-inflammatory Drug–Induced Apoptosis by Promoting Caspase-3–Mediated Cytochrome c Release. Alexander Bank, Peng Wang, Chunying Du, Jian Yu, and Lin Zhang.....276

Differential Involvement of Vascular Endothelial Growth Factor in the Survival of Hypoxic Colon Cancer Cells. Maura Calvani, Daniela Trisciuoglio, Cristina Bergamaschi, Robert H. Shoemaker, and Giovanni Melillo285

Immunology

Peripheral T-Cell Tolerance Associated with Prostate Cancer Is Independent from CD4⁺CD25⁺ Regulatory T Cells. Elena Degl'Innocenti, Matteo Grioni, Giusy Capuano, Elena Jachetti, Massimo Freschi, Maria T.S. Bertilaccio, Rodrigo Hess-Michelini, Claudio Dogliani, and Matteo Bellone292

Endocrinology

CARM1 Regulates Estrogen-Stimulated Breast Cancer Growth through Up-regulation of E2F1. Seth Fritze, Mathieu Lupien, Pamela A. Silver, and Myles Brown301

Clinical Research

Type-Dependent Integration Frequency of Human Papillomavirus Genomes in Cervical Lesions. Svetlana Vinokurova, Nicolas Wentzensen, Irene Kraus, Ruediger Klaes, Corina Driesch, Peter Melsheimer, Fjodor Kissel'ov, Mattias Dürst, Achim Schneider, and Magnus von Knebel Doeberitz307

Contents (*Continued*)

Epidemiology

Specific Genes Expressed in Association with Progesterone Receptors in Meningioma. Elizabeth B. Claus, Peter J. Park, Rona Carroll, Jennifer Chan, and Peter M. Black314

Circulating Levels of Inflammatory Cytokines and Risk of Colorectal Adenomas. Sangmi Kim, Temitope O. Keku, Christopher Martin, Joseph Galanko, John T. Woosley, Jane C. Schroeder, Jessie A. Satia, Susan Halabi, and Robert S. Sandler323

Insulin, Insulin-like Growth Factor-I, Endogenous Estradiol, and Risk of Colorectal Cancer in Postmenopausal Women. Marc J. Gunter, Donald R. Hoover, Herbert Yu, Sylvia Wassertheil-Smoller, Thomas E. Rohan, JoAnn E. Manson, Barbara V. Howard, Judith Wylie-Rosett, Garnet L. Anderson, Gloria Y.F. Ho, Robert C. Kaplan, Jixin Li, Xiaonan Xue, Tiffany G. Harris, Robert D. Burk, and Howard D. Strickler329

Correction

Correction: The Interaction of MUC1 and Myelin-Associated Glycoprotein338

Cancer Research

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

68 (1)

Cancer Res 2008;68:1-338.

Updated version	Access the most recent version of this article at: http://cancerres.aacrjournals.org/content/68/1
Supplementary Material	Access the most recent supplemental material at: http://cancerres.aacrjournals.org/content/suppl/2008/02/04/68.1.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/68/1 . Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.