



CONTENTS

Advances in Brief

- 2693** Enhancement of Oxidative Cell Injury and Antitumor Effects of Localized 44°C Hyperthermia upon Combination with Respiratory Hyperoxia and Xanthine Oxidase. Juergen Frank, Debra K. Kelleher, Alfonso Pompella, Oliver Thews, Hans K. Biesalski, and Peter Vaupel.
- 2699** Perturbation of TSG101 Protein Affects Cell Cycle Progression. Qing Zhong, Yumay Chen, Diane Jones, and Wen-Hwa Lee.
- 2703** Interleukin 1 β -converting Enzyme (Caspase-1) Is Overexpressed in Adenocarcinoma of the Pancreas. Susanne Gansauge, Frank Gansauge, Yinmo Yang, Jörg Müller, Thomas Seufferlein, Marco Ramadani, and Hans G. Beger.
- 2707** Vaccination with Tumor Cells Engineered to Secrete Interleukin 2-Immunoglobulin G Fusion Protein Induces Tumor Rejection. Silvia Bulfone-Paus, Horst von Bernuth, René Rückert, Joachim Wachtlin, Daniela Ungureanu, Michael Notter, Hans Krause, Thomas Pohl, Ralf Paus, and Ulrich Kunzendorf.
- 2711** Unsymmetrically Substituted Polyamine Analogue Induces Caspase-independent Programmed Cell Death in Bcl-2-Overexpressing Cells. Hyo Chol Ha, Patrick M. Woster, and Robert A. Casero, Jr.
- 2715** Genetic Changes in Inherited and Sporadic Ovarian Carcinomas by Comparative Genomic Hybridization: Extensive Similarity Except for a Difference at Chromosome 2q24–q32. Johanna Tapper, Laura Sarantaus, Pia Vahteristo, Heli Nevanlinna, Samuli Hemmer, Markku Seppälä, Sakari Knuutila, and Ralf Butzow.
- 2720** Frequent Inactivation of *PTEN* in Prostate Cancer Cell Lines and Xenografts. Remko J. Vlietstra, Dirk C. J. G. van Alewijk, Karin G. L. Hermans, Gert J. van Steenbrugge, and Jan Trapman.
- 2724** Absence of *PTEN/MMAC1* Germ-Line Mutations in Sporadic Bannayan-Riley-Ruvalcaba Syndrome. John M. Carethers, Frank B. Furnari, Andrew F. Zigman, Joel E. Lavine, Marilyn C. Jones, Gail E. Graham, Ahmad S. Teebi, H-J. Su Huang, Hannah T. Ha, Dharam P. Chauhan, Christina L. Chang, Webster K. Cavenee, and C. Richard Boland.
- 2727** Type I Transforming Growth Factor β Receptor Maps to 9q22 and Exhibits a Polymorphism and a Rare Variant within a Polyalanine Tract. Boris Pasche, Yan Luo, Pulivarthi H. Rao, Stephen D. Nimer, Ethan Dmitrovsky, Philip Caron, Lucio Luzzatto, Kenneth Offit, Carlos Cordon-Cardo, Béatrice Renault, Jaya M. Satagopan, Vundavalli V. V. S. Murty, and Joan Massagué.
- 2733** Procathepsin-L, a Proteinase that Cleaves Human C3 (the Third Component of Complement), Confers High Tumorigenic and Metastatic Properties to Human Melanoma Cells. Raymond Frade, Fernando Rodrigues-Lima, Suyun Huang, Keping Xie, Nathalie Guillaume, and Menashe Bar-Eli.
- 2737** Thymidine Phosphorylase Moderates Thymidine-dependent Rescue after Exposure to the Thymidylate Synthase Inhibitor ZD1694 (Tomudex) *in Vitro*. Adam V. Patterson, Denis C. Talbot, Ian J. Stratford, and Adrian L. Harris.
- 2741** Isolation of MOAT-B, a Widely Expressed Multidrug Resistance-associated Protein/Canalicular Multispecific Organic Anion Transporter-related Transporter. Kun Lee, Martin G. Belinsky, Daphne W. Bell, Joseph R. Testa, and Gary D. Kruh.

Regular Articles

Carcinogenesis

- 2748** Ornithine Decarboxylase Induction in Transformation by H-Ras and RhoA. Lisa M. Shantz and Anthony E. Pegg.
- 2754** Diosmin and Diosmetin Are Agonists of the Aryl Hydrocarbon Receptor That Differentially Affect Cytochrome P450 1A1 Activity. Henry P. Ciolino, Thomas T. Y. Wang, and Grace Chao Yeh.

Clinical Investigations

- 2761** Detection and Quantitation of Circulating Cancer Cells in the Peripheral Blood of Lung Cancer Patients. Konan Peck, Yuh-Pyng Sher, Jin-Yuan Shih, Steve R. Roffler, Cheng-Wen Wu, and Pan-Chyr Yang.
- 2766** The Relationship between nm23, Angiogenesis, and the Metastatic Proclivity of Node-negative Breast Cancer. Ruth Heimann, Donald J. Ferguson, and Samuel Hellman.

Epidemiology and Prevention

- 2772** Aspirin Toxicity for Human Colonic Tumor Cells Results from Necrosis and Is Accompanied by Cell Cycle Arrest. Roopa Subbegowda and Thomas O. Frommel.

Experimental Therapeutics

- 2777** Androgen-dependent and -independent Human Prostate Xenograft Tumors as Models for Drug Activity Evaluation. Chiung-Tong Chen, Yuebo Gan, Jessie L-S. Au, and M. Guillaume Wientjes.
- 2784** Squalamine Inhibits Angiogenesis and Solid Tumor Growth *in Vivo* and Perturbs Embryonic Vasculature. Allen K. Sills, Jr., Jon I. Williams, Betty M. Tyler, Darin S. Epstein, Eric P. Sipos, John D. Davis, Michael P. McLane, Simon Pitchford, Kimberly Cheshire, Francis H. Gannon, William A. Kinney, Tessa L. Chao, Mark Donowitz, John Laterza, Michael Zasloff, and Henry Brem.
- 2793** Phase I Trial of Intraperitoneal Iododeoxyuridine with and without Intravenous High-Dose Folinic Acid in the Treatment of Advanced Malignancies Primarily Confined to the Peritoneal Cavity: Flow Cytometric and Pharmacokinetic Analysis. Robert J. Morgan, Jr., Edward M. Newman, James H. Doroshow, Kathryn McGonigle, Kim Margolin, James Raschko, Warren Chow, George Somlo, Lucille Leong, Merry Tetef, Stephen Shibata, Victor Hamasaki, Mary Carroll, Steven Vasilev, Steven Akman, Paul Coluzzi, Lawrence Wagman, Jeff Longmate, Benjamin Paz, Yun Yen, and Robert Klevecz.
- 2801** Death of Tumor Cells after Intracellular Acidification Is Dependent on Stress-activated Protein Kinases (SAPK/JNK) Pathway Activation and Cannot Be Inhibited by Bcl-2 Expression or Interleukin 1 β -converting Enzyme Inhibition. Brent W. Zanke, Carol Lee, Sara Arab, and Ian F. Tannock.
- 2809** Sensitivity of K562 and HL-60 Cells to Edelfosine, an Ether Lipid Drug, Correlates with Production of Reactive Oxygen Species. Brett A. Wagner, Garry R. Buettner, Larry W. Oberley, and C. Patrick Burns.

- 2817 **Explaining Differences in Sensitivity to Killing by Ionizing Radiation between Human Lymphoid Cell Lines.** David R. Aldridge and Ian R. Radford.
- 2825 **Recombinant Humanized Anti-HER2 Antibody (Herceptin™) Enhances the Antitumor Activity of Paclitaxel and Doxorubicin against HER2/neu Overexpressing Human Breast Cancer Xenografts.** Jose Baselga, Larry Norton, Joan Albanell, Young-Mee Kim, and John Mendelsohn.

Immunology

- 2832 **IFN- γ Induces Cell Growth Inhibition by Fas-mediated Apoptosis: Requirement of STAT1 Protein for Up-Regulation of Fas and FasL Expression.** Xiulong Xu, Xin-Yuan Fu, Janet Plate, and Anita S-F. Chong.
- 2838 **Effective Adoptive Immunotherapy by T-LAK Cells Retargeted with Bacterial Superantigen-conjugated Antibody to MUC1 in Xenografted Severe Combined Immunodeficient Mice.** Masao Shinoda, Toshio Kudo, Masanori Suzuki, Yu Katayose, Naoki Sakurai, Hisaaki Saeki, Hideaki Kodama, Kenji Fukuhara, Kohzoh Imai, Yuji Hinoda, and Seiki Matsuno.
- 2844 **Antibodies against GD2 Ganglioside Can Eradicate Syngeneic Cancer Micrometastases.** Helen Zhang, Shengle Zhang, Nai-Kong V. Cheung, Govindaswami Ragupathi, and Philip O. Livingston.

Molecular Biology and Genetics

- 2850 **Elevated Frequencies of Benzo(a)pyrene-induced *Hprt* Mutations in Internal Tissue of XPA-deficient Mice.** Sandra A. M. Bol, Harry van Steeg, Jacob G. Jansen, Conny Van Oostrom, Annemieke de Vries, Anton J. L. de Groot, Ad D. Bates, Harry Vrieling, Albert A. van Zeeland, and Leon H. F. Mullenders.
- 2857 **Chemically Induced Mutations in Mitochondrial DNA of Human Cells: Mutational Spectrum of *N*-Methyl-*N'*-nitro-*N*-nitrosoguanidine.** Luisa A. Marcelino, Paulo C. André, Konstantin Khrapko, Hilary A. Collier, Jacqueline Griffith, and William G. Thilly.

- 2863 **Human Chromosome 21 Determines Growth Factor Dependence in Human/Mouse B-Cell Hybridomas.** Saskia B. Ebeling, Hanny M. Klaasse Bos, Rosalyn Slater, Wilhelmina J. I. Overkamp, Andrew P. Cuthbert, Robert F. Newbold, Malgorzata Z. Zdzienicka, and Lucien A. Aarden.

Tumor Biology

- 2869 **Mitochondrial Membrane Potential ($\Delta\Psi_{\text{mit}}$) in the Coordination of p53-independent Proliferation and Apoptosis Pathways in Human Colonic Carcinoma Cells.** Barbara G. Heerd, Michele A. Houston, Gillian M. Anthony, and Leonard H. Augenlicht.
- 2876 **Frequent Overexpression of the Cyclin D1 Oncogene in Invasive Lobular Carcinoma of the Breast.** Tetsunari Oyama, Kenji Kashiwabara, Katsuhiko Yoshimoto, Andrew Arnold, and Frederick Koerner.
- 2881 **Progression of Hepatic Neoplasms Is Severely Retarded in Mice Lacking the Bisecting *N*-Acetylglucosamine on *N*-Glycans: Evidence for a Glycoprotein Factor that Facilitates Hepatic Tumor Progression.** Mantu Bhaumik, Thomas Harris, Subha Sundaram, Linda Johnson, Joseph Guttenplan, Charles Rogler, and Pamela Stanley.
- 2888 **p53 Genes Mutated in the DNA Binding Site or at a Specific COOH-terminal Site Exert Divergent Effects on Thyroid Cell Growth and Differentiation.** Amelia Casamassimi, Maria Giuseppina Miano, Antonio Porcellini, Gabriella De Vita, Filomena de Nigris, Mariastella Zannini, Roberto Di Lauro, Tommaso Russo, Vittorio Enrico Avvedimento, and Alfredo Fusco.

Meeting Report

- 2895 **The University of California, Los Angeles/Jennifer Jones Simon Foundation Symposium on Prostate Cancer and Epithelial Cell Biology: Bringing Together Basic Scientists and Clinicians in the Fight against Advanced Prostate Cancer.** John Naitoh, Owen Witte, and Arie Beldegrun.

2901 Announcements

1999 Annual Meeting
 Future Annual Meetings of the AACR
 Call for Nominations for 1999 AACR-Pezcoller International Award for Cancer Research
 Call for Nominations for AACR Awards
 AACR Special Conferences in Cancer Research
 Calendar of Events

2904 Errata

E. Aboagye et al., *Cancer Res.*, 58: 1063-1067, 1998.
 R-L. Wu et al., *Cancer Res.*, 58: 1291-1297, 1998.

2905 Employment Register

2918 Author Index

**AACR forms available
 in the back of this issue:**

**Application for Active and
 Corresponding Membership**

**Application for Associate
 Membership**

**Also available in the back
 of this issue:**

**Guidelines for Submitting Disks to
 AACR Publications**

Cancer Research

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

58 (13)

Cancer Res 1998;58:2693-2904.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/58/13.citation>

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/58/13.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.