



CONTENTS

Advances in Brief

Regular Articles

- 4087 Noninvasive Imaging of Herpes Virus Thymidine Kinase Gene Transfer and Expression: A Potential Method for Monitoring Clinical Gene Therapy.** Juri G. Tjuvajev, Ronald Finn, Kyoichi Watanabe, Revathi Joshi, Takamitsu Oku, John Kennedy, Bradley Beattie, Jason Koutcher, Steven Larson, and Ronald G. Blasberg.
- 4096 Metastatic Prostate Cancer in a Transgenic Mouse.** Jeffrey R. Gingrich, Roberto J. Barrios, Ronald A. Morton, Brendan F. Boyce, Francesco J. DeMayo, Milton J. Finegold, Roxani Angelopoulou, Jeffrey M. Rosen, and Norman M. Greenberg.
- 4103 Reduced DNA Repair Capacity in Lung Cancer Patients.** Qingyi Wei, Lie Cheng, Waun Ki Hong, and Margaret R. Spitz.
- 4108 Association of Prostate Cancer with Vitamin D Receptor Gene Polymorphism.** Jack A. Taylor, Ari Hirvonen, Mary Watson, Gary Pittman, James L. Mohler, and Douglas A. Bell.
- 4111 Gastrin Gene Expression Is Required for the Proliferation and Tumorigenicity of Human Colon Cancer Cells.** Pomila Singh, Azar Owlia, Andrea Varro, Bosong Dai, S. Rajaraman, and T. Wood.
- 4116 Apoptosis Induced by X-Irradiation of rec-myc Cells Is Postmitotic and not Predicted by the Time after Irradiation or Behavior of Sister Cells.** Charles A. Vidair, Chang H. Chen, Clifton C. Ling, and William C. Dewey.
- 4119 p16 and p16 β Are Potent Growth Suppressors of Head and Neck Squamous Carcinoma Cells *in Vitro*.** William H. Liggett, Jr., Duane A. Sewell, James Rocco, Steven A. Ahrendt, Wayne Koch, and David Sidransky.
- 4124 A Human Canalicular Multispecific Organic Anion Transporter (cMOAT) Gene Is Overexpressed in Cisplatin-resistant Human Cancer Cell Lines with Decreased Drug Accumulation.** Ken Taniguchi, Morimasa Wada, Kimitoshi Kohno, Takanori Nakamura, Takeshi Kawabe, Mina Kawakami, Kazuhiro Kagotani, Katsuzumi Okumura, Shin-ichi Akiyama, and Michihiko Kuwano.
- 4130 ATM Mutations in Cancer Families.** Igor Vofechovský, Liping Luo, Annika Lindblom, Massimo Negrini, A. David B. Webster, Carlo M. Croce, and Lennart Hammarström.
- 4134 Prognosis Is Correlated with p53 Mutation Type for Soft Tissue Sarcoma Patients.** Helge Taubert, Axel Meye, and Peter Würfl.
- 4137 Overexpression of Protein Kinase C-zeta (PKC- ζ) Inhibits Invasive and Metastatic Abilities of Dunning R-3327 MAT-LyLu Rat Prostate Cancer Cells.** C. Thomas Powell, Jürgen E. Gschwend, William R. Fair, Nicole J. Britis, Diane Stec, and Robert Huryk.
- 4142 Active Site-directed Double Mutants of Dihydrofolate Reductase.** Ermine A. Ercikan-Abali, Shin Mineishi, Youzhi Tong, Saori Nakahara, Mark C. Waltham, Debabrata Banerjee, Wen Chen, Michel Sadelain, and Joseph R. Bertino.
- 4146 Integrin Activation Suppresses Etoposide-induced DNA Strand Breakage in Cultured Murine Tumor-derived Endothelial Cells.** Dale G. Hoyt, James M. Rusnak, Robert J. Mannix, Ruth A. Modzelewski, Candace S. Johnson, and John S. Lazo.
- 4150 Identification and Characterization of Proximal 6q Deletions in Prostate Cancer.** Kathleen A. Cooney, Jon C. Wetzel, Christina M. Consolino, and Kirk J. Wojno.

Clinical Investigations

- 4154 Prognostic Value of Cadherin-associated Molecules (α -, β -, and γ -Catenins and p120^{cas}) in Bladder Tumors.** Toru Shimazui, Jack A. Schalken, Laurence A. Girolodi, Cornelius F. J. Jansen, Hideyuki Akaza, Kenkichi Koiso, Frans M.J. Debruyne, and Pierre Paul Bringuier.
- 4159 Expression of Cell Cycle-regulated Proteins in Prostate Cancer.** Robert D. Mashal, Susan Lester, Christopher Corless, Jerome P. Richie, Reena Chandra, Kathleen J. Probert, and Anindya Dutta.

Experimental Therapeutics

- 4164 Hormone-induced Apoptosis by Fas-Nuclear Receptor Fusion Proteins: Novel Biological Tools for Controlling Apoptosis *in Vivo*.** Hirohide Takebayashi, Hiroji Oida, Kazuko Fujisawa, Masahiro Yamaguchi, Takatoshi Hikida, Manabu Fukumoto, Shuh Narumiya, and Akira Kakizuka.
- 4171 Reversal of P-Glycoprotein-mediated Multidrug Resistance by a Potent Cyclopropylidibenzosuberane Modulator, LY335979.** Anne H. Dantzig, Robert L. Shepard, Jin Cao, Kevin L. Law, William J. Ehlhardt, Todd M. Baughman, Thomas F. Bumol, and James J. Starling.
- 4180 Molecular Determinants in the Plasma Clearance and Tissue Distribution of Ribonucleases of the Ribonuclease A Superfamily.** Veena M. Vasandani, You-Neng Wu, Stanislaw M. Mikulski, Richard J. Youle, and Cynthia Sung.
- 4187 Uptake and Metabolism of the New Anticancer Compound β -L-(–)-Dioxolane-Cytidine in Human Prostate Carcinoma DU-145 Cells.** Kristie L. Grove and Yung-Chi Cheng.
- 4192 Commitment to Erythroid Differentiation in Mouse Erythroleukemia Cells Is Controlled by Alterations in Topoisomerase II α Phosphorylation.** Andreas I. Constantinou, Andrew T. M. Vaughan, Hiroshi Yamasaki, and Narayana Kamath.

- 4200 Dose-Response Relationship of Dexrazoxane for Prevention of Doxorubicin-induced Cardiotoxicity in Mice, Rats, and Dogs.** Anthony R. Imondi, Paola Della Torre, Guy Mazué, Timothy M. Sullivan, Thomas L. Robbins, Larry M. Hagerman, Arturo Podestà, and Giovanni Pinciroli.

Immunology

- 4205 MUC1-specific Targeting Immunotherapy with Bispecific Antibodies: Inhibition of Xenografted Human Bile Duct Carcinoma Growth.** Yu Katayose, Toshio Kudo, Masanori Suzuki, Masao Shinoda, Susumu Saijyo, Naoki Sakurai, Hisaaki Saeki, Kenji Fukuhara, Kohzo Imai, and Seiki Matsuno.
- 4213 Interleukin 6 Receptor Superantagonists Are Potent Inducers of Human Multiple Myeloma Cell Death.** Anna Demartis, Francesca Bernassola, Rocco Savino, Gennaro Melino, and Gennaro Ciliberto.

Molecular Biology and Genetics

- 4219 **Genetic Aberrations in Adrenocortical Tumors Detected Using Comparative Genomic Hybridization Correlate with Tumor Size and Malignancy.** Magnus Kjellman, Olli-P. Kallioniemi, Ritva Karhu, Anders Höög, Lars-Ove Farnebo, Gert Auer, Catharina Larsson, and Martin Bäckdahl.
- 4224 **Role of the Human Y Box-binding Protein YB-1 in Cellular Sensitivity to the DNA-damaging Agents Cisplatin, Mitomycin C, and Ultraviolet Light.** Takefumi Ohga, Koji Koike, Mayumi Ono, Yoshinari Makino, Yasuharu Itagaki, Morimasa Tanimoto, Michihiko Kuwano, and Kimitoshi Kohno.
- 4229 **Differential and Antagonistic Effects of v-Jun and c-Jun.** Meihua Gao, Iain Morgan, and Peter K. Vogt.

Tumor Biology

- 4236 **The Protein Tyrosine Phosphatase DEP-1 Is Induced during Differentiation and Inhibits Growth of Breast Cancer Cells.** Maccon M. Keane, Geoffrey A. Lowrey, Seth A. Ettenberg, Mark A. Dayton, and Stan Lipkowitz.
- 4244 **The Breast Mucin MUC1 as a Novel Adhesion Ligand for Endothelial Intercellular Adhesion Molecule 1 in Breast Cancer.** Lyle H. Regimbald, Linda M. Pilarski, B. Michael Longenecker, Mark A. Reddish, Gabrielle Zimmermann, and Judith C. Hugh.
- 4250 **Construction of Phosphorylatable Monoclonal Antibody to a Tumor-associated Antigen.** Lei Lin, Bruce Daugherty, Jeffrey Schlom, and Sidney Pestka.
- 4255 **Inhibition of Neuropeptide-stimulated Tyrosine Phosphorylation and Tyrosine Kinase Activity Stimulates Apoptosis in Small Cell Lung Cancer Cells.** April Tallett, Edwin R. Chilvers, Sharon Hannah, Ian Dransfield, Mark F. Lawson, Christopher Haslett, and Tariq Sethi.

- 4264 **Tumor Angiogenesis and Interstitial Hypertension.** Yves Boucher, Michael Leunig, and Rakesh K. Jain.

Letters to the Editor

- 4267 **Correspondence re: E. Farber, Cell Proliferation as a Major Risk Factor for Cancer: A Concept of Doubtful Validity. Cancer Res., 55: 3759-3762, 1995.** Letter by Grant N. Stemmermann, Amy Noffsinger, and Cecilia M. Fenoglio-Preiser; Letter by Bruce N. Ames and Lois Swirsky Gold; Letter by Samuel M. Cohen and Leon B. Ellwein; Letter by Byron E. Butterworth. Reply by Emmanuel Farber.
- 4275 **Correspondence re: S. J. London et al., Lung Cancer Risk in African-Americans in Relation to a Race-specific CYP1A1 Polymorphism. Cancer Res., 55: 6035-6037, 1995.** Emanuela Taioli and Seymour J. Garte. Reply by Stephanie J. London, William C. Navidi, Ann K. Daly, and Jeffrey R. Idle.

Meeting Reports

- 4278 **Psychoneuroimmunology and Cancer: Fifteenth Sapporo Cancer Seminar.** Hugo O. Besedovsky, Ronald B. Herberman, Lydia R. Temoshok, and Fujiro Sendo.
- 4282 **Seventh Annual Pezcoller Symposium: Cancer Genes—Functional Aspects.** Enrico Mihich and David Housman.
- 4288 **The XVIII Symposium of the International Association for Comparative Research on Leukemia & Related Diseases (IACRLRD): Leukemia and Lymphoma/Pathogenesis and Treatment/Molecular Aspects.** Kuan-Teh Jeang and Frank J. Rauscher III.

4293 Announcements

Future Annual Meetings of the AACR
1997 Annual Meeting
Call for Nominations for Honorary
Membership
Gertrude Elion Cancer Research Award
AACR Research Fellowships
AACR Minority Scholar Awards
Supported by the National Cancer
Institute
AACR Special Conferences in Cancer
Research
Recent Deaths
Calendar of Events

4296 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)

56 (18)

Cancer Res 1996;56:4087-4295.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/56/18.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/56/18.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.