



CONTENTS

Perspectives in Cancer Research

- 2269 **Is 2-Methoxyestradiol an Endogenous Estrogen Metabolite That Inhibits Mammary Carcinogenesis?** Bao Ting Zhu and Allan H. Conney.

Advances in Brief

- 2278 **Genomic Changes in Endometrial Polyps Associated with Tamoxifen Show No Evidence for Its Action as an External Carcinogen.** Paola Dal Cin, Dirk Timmerman, Ivo Van den Berghe, Sylke Wanschura, Bernd Kazmierczak, Ignace Vergote, Jan Deprest, Patrick Neven, Philippe Moerman, Jörn Bullerdiek, and Herman Van den Berghe.
- 2282 **Prostate-specific Amplification of Expanded Polyglutamine Expression: A Novel Approach for Cancer Gene Therapy.** Takehiko Segawa, Hirohide Takebayashi, Yoshiyuki Kakehi, Osamu Yoshida, Shuh Narumiya, and Akira Kakizuka.
- 2288 **Adenovirus-mediated Wild-Type p53 Gene Transfer Down-Regulates Vascular Endothelial Growth Factor Expression and Inhibits Angiogenesis in Human Colon Cancer.** Michael Bouvet, Lee M. Ellis, Masahiko Nishizaki, Toshiyoshi Fujiwara, Wenbiao Liu, Corazon D. Bucana, Bingliang Fang, J. Jack Lee, and Jack A. Roth.
- 2293 **Ataxia-telangiectasia and T-Cell Leukemias: No Evidence for Somatic ATM Mutation in Sporadic T-ALL or for Hypermethylation of the ATM-NPAT/E14 Bidirectional Promoter in T-PLL.** Liping Luo, Feng-min Lu, Steve Hart, Letizia Foroni, Hodjattallah Rabbani, Lennart Hammarström, A. David B. Webster, and Igor Votekhovský.
- 2298 **Germ-Line Deletion Involving the INK4 Locus in Familial Predisposition to Melanoma and Nervous System Tumors.** Michel Bahuau, Dominique Vidaud, Robert B. Jenkins, Ivan Bièche, David W. Kimmel, Brigitte Assouline, Justin S. Smith, Benjamin Alderete, Jean-Michel Cayuela, Jean-Paul Harpey, Bernard Caille, and Michel Vidaud.
- 2304 **Intratumoral Heterogeneity of Von Hippel-Lindau Deletions in Renal Cell Carcinoma Detected by Fluorescence *in Situ* Hybridization.** Holger Moch, Peter Schraml, Lukas Bubendorf, Jan Richter, Thomas C. Gasser, Michael J. Mihatsch, and Guido Sauter.
- 2310 **Adenovirus-mediated Gene Delivery of Tissue Inhibitor of Metalloproteinases-3 Inhibits Invasion and Induces Apoptosis in Melanoma Cells.** Matti Ahonen, Andrew H. Baker, and Veli-Matti Kähäri.
- 2316 **Characterization of Cell Cycle Checkpoint Responses after Ionizing Radiation in Nijmegen Breakage Syndrome Cells.** Vikky Yamazaki, Rolf-Dieter Wegner, and Cordula U. Kirchgessner.
- 2323 **Antioxidants Reduce Cyclooxygenase-2 Expression, Prostaglandin Production, and Proliferation in Colorectal Cancer Cells.** Rebecca Chinery, R. Daniel Beauchamp, Yu Shyr, Susan C. Kirkland, Robert J. Coffey, and Jason D. Morrow.
- 2328 **Evidence for the Multifocal Origin of Bilateral and Advanced Human Serous Borderline Ovarian Tumors.** Karen H. Lu, Debra A. Bell, William R. Welch, Ross S. Berkowitz, and Samuel C. Mok.
- 2331 **Suppression of Tumorigenicity of Glioblastoma Cells by Adenovirus-mediated MMAC1/PTEN Gene Transfer.** I. Wayne Cheney, Duane E. Johnson, Mei-Ting Vaillancourt, Jenny Avanzini, Alyssa Morimoto, G. William Demers, Ken N. Wills, Paul W. Shabram, Joseph B. Bolen, Sean V. Tavtigian, and Robert Bookstein.

- 2335 **Activation of Nuclear Factor κ B: Potential Role in Metallothionein-mediated Mitogenic Response.** Asim B. Abdel-Mageed and Krishna C. Agrawal.
- 2339 **Alterations in Pancreatic, Biliary, and Breast Carcinomas Support MKK4 as a Genetically Targeted Tumor Suppressor Gene.** Gloria H. Su, Werner Hilgers, Manu C. Shekher, David J. Tang, Charles J. Yeo, Ralph H. Hruban, and Scott E. Kern.
- 2343 **Apoptosis and Tumor Angiogenesis in Cervical Cancer after Preoperative Chemotherapy.** Masatsugu Ueda, Ken Ueki, Koji Kumagai, Yoshito Terai, Yoshiaki Okamoto, Minoru Ueki, and Yoshinori Otsuki.
- 2347 **Activation of p73 Silent Allele in Lung Cancer.** Ming Mai, Akira Yokomizo, Chiping Qian, Ping Yang, Donald J. Tindall, David I. Smith, and Wanguo Liu.
- 2350 **Metastasis Suppression by the Standard CD44 Isoform Does Not Require the Binding of Prostate Cancer Cells to Hyaluronate.** Allen C. Gao, Wei Lou, Jonathan P. Sleeman, and John T. Isaacs.

Regular Articles

Biochemistry and Biophysics

- 2353 **Purification and Characterization of a Tumor Lipid-mobilizing Factor.** Penio T. Todorov, Trudi M. McDevitt, David J. Meyer, Hisao Ueyama, Iwao Ohkubo, and Michael J. Tisdale.
- 2359 **Biological Evaluation of a Lipid-mobilizing Factor Isolated from the Urine of Cancer Patients.** Kouzo Hirai, Helen J. Hussey, Matthew D. Barber, Sarah A. Price, and Michael J. Tisdale.

Carcinogenesis

- 2366 **Characterization of CYP1B1 and CYP1A1 Expression in Human Mammary Epithelial Cells: Role of the Aryl Hydrocarbon Receptor in Polycyclic Aromatic Hydrocarbon Metabolism.** Michele Campaigne Larsen, William G. R. Angus, Paul B. Brake, Sakina E. Eltom, Kristine A. Sukow, and Colin R. Jefcoate.

Clinical Investigations

- 2375 **Determination of Somatostatin Receptor Subtype 2 in Carcinoid Tumors by Immunohistochemical Investigation with Somatostatin Receptor Subtype 2 Antibodies.** Eva Tiensuu Janson, Mats Stridsberg, Anders Gobl, Jan-Erik Westlin, and Kjell Öberg.

Endocrinology

- 2379 **Increased UDP-glucuronosyltransferase Activity and Decreased Prostate Specific Antigen Production by Biochanin A in Prostate Cancer Cells.** Xiao-Ya Sun, Cathie A. Plouzek, James P. Henry, Thomas T. Y. Wang, and James M. Phang.

Experimental Therapeutics

- 2385 **Metabolism of 17-(Allylamino)-17-demethoxygeldanamycin (NSC 330507) by Murine and Human Hepatic Preparations.** Merrill J. Egorin, D. Marc Rosen, Jordan H. Wolff, Patrick S. Callery, Steven M. Musser, and Julie L. Eiseman.
- 2397 **Tyrphostin 4-Nitrobenzylidene Malonitrile Reduces Chemotherapy Toxicity without Impairing Efficacy.** Abraham Novogrodsky, Michael Weisspapir, Miriam Patya, Asher Meshorer, and Alexey Vanichkin.

- 2404 Complete Regression of Well-established Tumors Using a Novel Water-soluble Poly(L-Glutamic Acid)-Paclitaxel Conjugate.** Chun Li, Dong-Fang Yu, Robert A. Newman, Fernando Cabral, L. Clifton Stephens, Nancy Hunter, Luka Milas, and Sidney Wallace.
- 2410 Comparative Pharmacology of the Novel Cyclopropylpyrrolidone-Prodrug Carzelesin in Mice, Rats, and Humans.** Olaf van Tellinghen, Willem J. Nooijen, Larry J. Schaaf, Martin van der Valk, Judith van Asperen, Roland E. C. Henrar, and Jos H. Beijnen.

Immunology

- 2417 Characterization of Human Anti-High Molecular Weight-Melanoma-associated Antigen Single-Chain Fv Fragments Isolated from a Phage Display Antibody Library.** Smruti A. Desai, Xinhui Wang, Elvyra J. Noronha, Toshiro Kageshita, and Soldano Ferrone.
- 2426 Multiple Roles of Interferon- γ in the Mediation of Interleukin 12-induced Tumor Regression.** Makoto Ogawa, Wen-Gong Yu, Kazunari Umehara, Masayuki Iwasaki, Rishani Wijesuriya, Takahiro Tsujimura, Takeshi Kubo, Hiromi Fujiwara, and Toshiyuki Hamaoka.
- 2433 Peptides Derived from Self-Proteins as Partial Agonists and Antagonists of Human CD8⁺ T-Cell Clones Reactive to Melanoma/Melanocyte Epitope MART1₂₇₋₃₅.** Douglas J. Loftus, Paola Squarcina, Mai-Britt Nielsen, Carsten Geisler, Chiara Castelli, Niels Ødum, Ettore Appella, Giorgio Parmiani, and Licia Rivoltini.

Molecular Biology and Genetics

- 2440 Identification of a Novel Gene Marker Specific for Epithelial Cells by Utilizing a 3'-directed cDNA Library.** Tadashi Ohnishi, Naohiro Tomita, Yasuo Miyoshi, Nobutoshi Shinoki, Tatsuya Tanaka, Yuichi Kawabata, Mitsugu Sekimoto, Takushi Monden, Kousaku Okubo, Kenichi Matsubara, and Morito Monden.

- 2445 Defective Bypass Replication of a Leading Strand Cyclobutane Thymine Dimer in Xeroderma Pigmentosum Variant Cell Extracts.** Daniel L. Svoboda, Linda P. Briley, and Jean-Michel H. Vos.

- 2449 Clones of Normal Keratinocytes and a Variety of Simultaneously Present Epidermal Neoplastic Lesions Contain a Multitude of p53 Gene Mutations in a Xeroderma Pigmentosum Patient.** Cecilia Williams, Fredrik Pontén, Afshin Ahmadian, Zhi-Ping Ren, Gao Ling, Ola Rollman, Anders Ljung, Nicholaas G. J. Jaspers, Mathias Uhlén, Joakim Lundeberg, and Jan Pontén.

- 2456 Identification of Two Common Regions of Allelic Loss in Chromosome Arm 12q in Human Pancreatic Cancer.** Mitsuhiro Kimura, Toru Furukawa, Tadayoshi Abe, Toshimasa Yatsuoka, Emile M. Youssef, Tadaaki Yokoyama, Hong Ouyang, Yasuyuki Ohnishi, Makoto Sunamura, Masao Kobari, Seiki Matsuno, and Akira Horii.

- 2461 Expression of Early Growth Response Genes in Human Prostate Cancer.** Manal A. Eid, M. Vijay Kumar, Kenneth A. Iczkowski, David G. Bostwick, and Donald J. Tindall.

Tumor Biology

- 2469 The Ewing Tumor Family of Peripheral Primitive Neuroectodermal Tumors Expresses Human Gastrin-releasing Peptide.** Elizabeth R. Lawlor, Jerian F. Lim, Wen Tao, Christopher Poremba, Clinton J. Chow, Ingrid V. Kalousek, Heinrich Kovar, Tom J. MacDonald, and Poul H. B. Sorensen.

- 2477 Inhibition of Tumorigenesis and Induction of Apoptosis in Human Tumor Cells by the Stable Expression of a Myristylated COOH Terminus of the Insulin-like Growth Factor I Receptor.** Atsushi Hongo, Gladys Yumet, Mariana Resnicoff, Gaetano Romano, Rosemary O'Connor, and Renato Baserga.

2485 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

**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**

2488 Author Index

Cancer Research

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

58 (11)

Cancer Res 1998;58:2269-2487.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/58/11.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/58/11.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.