



CONTENTS

Advances in Brief

- 1 **Prognostic Significance of *p53* Mutations and 3p Deletions in Primary Resected Non-Small Cell Lung Cancer.** Yoshitsugu Horio, Takashi Takahashi, Tetsuo Kuroishi, Kenji Hibi, Motokazu Suyama, Takao Niimi, Kaoru Shimokata, Kazuhiro Yamakawa, Yusuke Nakamura, Ryuzo Ueda, and Toshitada Takahashi.
- 5 **Differential Expression of *MAGE-1*, *-2*, and *-3* Messenger RNA in Transformed and Normal Human Cell Lines.** Rina Zakut, Suzanne L. Topalian, Yutaka Kawakami, Marie Mancini, Siona Eliyahu, and Steven A. Rosenberg.
- 9 **Aflatoxin B₁-induced Rat Hepatic Hyperplastic Nodules Do Not Exhibit a Site-specific Mutation within the *p53* Gene.** Janis E. Hulla, Zhi Ying Chen, and David L. Eaton.
- 12 **Oxidative Injury Rapidly Activates the Heat Shock Transcription Factor but Fails to Increase Levels of Heat Shock Proteins.** Jacqueline L. Bruce, Brendan D. Price, C. Norman Coleman, and Stuart K. Calderwood.
- 16 ***MDM2* Gene Amplification in Metastatic Osteosarcoma.** Marc Ladanyi, Charles Cha, Ronald Lewis, Suresh C. Jhanwar, Andrew G. Huvos, and John H. Healey.

Regular Articles

Biochemistry and Biophysics

- 19 **2,2'-Bipyridyl-6-carbothioamide and Its Ferrous Complex: Their *in Vitro* Antitumoral Activity Related to the Inhibition of Ribonucleotide Reductase R2 Subunit.** Giuseppe Nocentini, Federica Federici, Palmarisa Franchetti, and Anna Barzi.

Carcinogenesis

- 27 **Inhibition of Skin Tumor Promotion by Restriction of Fat and Carbohydrate Calories in SENCAR Mice.** Diane F. Birt, Heather J. Pinch, Tracy Barnett, An Phan, and Kaye Dimitroff.
- 32 **Effects of Sodium Nitrite and Catechol, 3-Methoxycatechol, or Butylated Hydroxyanisole in Combination in a Rat Multiorgan Carcinogenesis Model.** Masao Hirose, Hikaru Tanaka, Satoru Takahashi, Mitsuru Futakuchi, Shoji Fukushima, and Nobuyuki Ito.
- 38 **Mechanism of Induction of *c-fos* by Ultraviolet B (290–320 nm) in Mouse JB6 Epidermal Cells.** Girish Shah, Rita Ghosh, Paul A. Amstad, and Peter A. Cerutti.
- 46 **Caloric Restriction and Intervention in Pancreatic Carcinogenesis in the Rat.** B. D. Roebuck, Karen J. Baumgartner, and Denise L. MacMillan.
- 53 **Wavelength Dependence of Skin Cancer Induction by Ultraviolet Irradiation of Albino Hairless Mice.** Frank R. de Grujil, Henricus J. C. M. Sterenborg, P. Donald Forbes, Ronald E. Davies, Curtis Cole, Gerrit Kelfkens, Huib van Weelden, Harm Slaper, and Jan C. van der Leun.

Clinical Investigations

- 61 **Serum Fragment of Cytokeratin Subunit 19 Measured by CYFRA 21-1 Immunoradiometric Assay as a Marker of Lung Cancer.** Jean-Louis Pujol, Jean Grenier, Jean-Pierre Daurès, Alain Daver, Henri Pujol, and François-Bernard Michel.
- 67 **Atrial Natriuretic Factor and Arginine Vasopressin Production in Tumor Cell Lines from Patients with Lung Cancer and Their Relationship to Serum Sodium.** Andrew J. Gross, Seth M. Steinberg, J. Garrett Reilly, David P. Bliss, Jr., John Brennan, Phong Tram Le, Alfreda Simmons, Ruby Phelps, James L. Mulshine, Daniel C. Ihde, and Bruce E. Johnson.

Epidemiology

- 75 **A Prospective Cohort Study on Dietary Fat and the Risk of Postmenopausal Breast Cancer.** Piet A. van den Brandt, Pieter van't Veer, R. Alexandra Goldbohm, Elisabeth Dorant, Alexander Volovics, Rudolph J. J. Hermus, and Ferd Sturmans.

Experimental Therapeutics

- 83 ***In Situ* Retroviral-mediated Gene Transfer for the Treatment of Brain Tumors in Rats.** Zvi Ram, Kenneth W. Culver, Stuart Walbridge, R. Michael Blaese, and Edward H. Oldfield.
- 89 **A Temperature Sensitive Topoisomerase II Allele Confers Temperature Dependent Drug Resistance on Amsacrine and Etoposide: A Genetic System for Determining the Targets of Topoisomerase II Inhibitors.** J. L. Nitiss, Y-X. Liu, and Y. Hsiung.
- 94 **A Human Tumor Xenograft Model of Therapy with a Bispecific Monoclonal Antibody Targeting *c-erbB-2* and CD16.** Louis M. Weiner, Michele Holmes, Gregory P. Adams, Frank LaCreta, Perry Watts, and Irma Garcia de Palazzo.
- 101 **Development and Characterization of an Isolated and Perfused Tumor and Skin Preparation for Evaluation of Drug Disposition.** Shelly L. Vaden, Rodney L. Page, Barry P. Peters, J. Mark Cline, and Jim E. Riviere.

Immunology

- 106 **Autoreactive and Heat Shock Protein 60-recognizing CD4⁺ T-Cells Show Antitumor Activity against Syngeneic Fibrosarcoma.** Mamoru Harada, Goro Matsuzaki, Yasunobu Yoshikai, Noritada Kobayashi, Shin Kurosawa, Hiroaki Takimoto, and Kikuo Nomoto.
- 112 **Modulation by Adjuvants and Carriers of the Immunogenicity in Xenogeneic Hosts of Mouse Antidiotypic Monoclonal Antibody MK2-23, an Internal Image of Human High Molecular Weight-Melanoma Associated Antigen.** Zhi Jian Chen, Hong Yang, Chang Chin Liu, Shunji Hirai, and Soldano Ferrone.
- 120 **Lactotetraose Series Ganglioside 3',6'-isoL_{D1} in Tumors of Central Nervous and Other Systems *in Vitro* and *in Vivo*.** C. J. Wikstrand, D. C. Longee, R. E. McLendon, G. N. Fuller, H. S. Friedman, P. Fredman, L. Svennerholm, and D. D. Bigner.

Molecular Biology and Genetics

- 127 **Theophylline Induced Differentiation Provides Direct Evidence for the Deregulation of *c-myc* in Burkitt's Lymphoma and Suggests Participation of Immunoglobulin Enhancer Sequences.** J. T. Sandlund, L. M. Neckers, H. E. Schneller, L. S. Woodruff, and I. T. Magrath.
- 133 **Mutation of *H-ras* Is Infrequent in Bladder Cancer: Confirmation by Single-Strand Conformation Polymorphism Analysis, Designed Restriction Fragment Length Polymorphisms, and Direct Sequencing.** Margaret A. Knowles and Magali Williamson.

Tumor Biology

- 140 **M_r 92,000 Type IV Collagenase Is Increased in Plasma of Patients with Colon Cancer and Breast Cancer.** Stanley Zucker, Rita M. Lysik, Mohammad H. Zarrabi, and Ute Moll.
- 147 **Extracellular Matrix Production and Degradation by Adenoid Cystic Carcinoma Cells: Participation of Plasminogen Activator and Its Inhibitor in Matrix Degradation.** Kanemitsu Shirasuna, Munehisa Saka, Yasutaka Hayashido, Hideo Yoshioka, Tuyoshi Sugiura, and Tokuzo Matsuya.
- 153 **Tumor-secreted Vascular Permeability Factor/Vascular Endothelial Growth Factor Influences Photosensitizer Uptake.** W. Gregory Roberts and Tayyaba Hasan.
- 158 **Overexpression of Basic Fibroblast Growth Factor Complementary DNA in *Ha-ras*-transformed Cells Correlates with a Decreased Incidence of Tumor Necrosis.** David Peretz, Nina Kimel, Dennis K. Fujii, and Gera Neufeld.

- 165 **Increased Stromelysin 3 Gene Expression Is Associated with Increased Local Invasiveness in Head and Neck Squamous Cell Carcinomas.** Danièle Muller, Catherine Wolf, Joseph Abecassis, Régine Millon, Alain Engelmann, Guy Bronner, Nicolas Rouyer, Marie-Christine Rio, Michel Eber, Gérard Methlin, Pierre Chambon, and Paul Basset.
- 170 **Expression of Oligodendrocyte-associated Genes in Cell Lines Derived from Human Gliomas and Neuroblastomas.** Tsuyoshi Kashima, Samuel N. Tiu, Jean E. Merrill, Harry V. Vinters, Glyn Dawson, and Anthony T. Campagnoni.
- 176 **Exploiting the *lacZ* Reporter Gene for Quantitative Analysis of Disseminated Tumor Growth within the Brain: Use of the *lacZ* Gene Product as a Tumor Antigen, for Evaluation of Antigenic Modulation, and to Facilitate Image Analysis of Tumor Growth *in Situ*.** Lois A. Lampson, Michael A. Lampson, and A. Dana Dunne.
- 183 **Immunoelectron Microscopic Localization of Transforming Growth Factor β_1 and Latent Transforming Growth Factor β_1 Binding Protein in Human Gastrointestinal Carcinomas: Qualitative Difference between Cancer Cells and Stromal Cells.** Takayuki Mizoi, Haruo Ohtani, Kohei Miyazono, Masaaki Miyazawa, Seiki Matsuno, and Hiroshi Nagura.
- 191 **Expression of the Transforming Growth Factor α Protooncogene in Differentiating Human Promyelocytic Leukemia (HL-60) Cells.** Thomas M. Walz, Claes Malm, and Åke Wasteson.

197 Announcements

Eighty-Fourth Annual Meeting of the AACR
New Format for Annual Meetings of the
AACR Beginning in 1994
Workshop on Histopathobiology of Cancer
Workshop on Molecular Biology in Clinical
Oncology
AACR Special Conferences in Cancer
Research
Recent Deaths
Calendar of Events

200 Instructions for Authors

207 Author Index

AACR forms available in the back
of this issue:

Employment Register Forms and
Instructions
Application for Active and
Corresponding Membership
Application for Associate
Membership

AACR forms available in the back
of this issue:

Advance Registration Form for the
84th Annual Meeting
Guidelines for Submitting Disks to
AACR Publications

Cancer Research

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

53 (1)

Cancer Res 1993;53:1-199.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/53/1.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/53/1.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.