



CONTENTS

Advances in Brief

- 5067 Protective and Curative Potential of Vaccination with Interleukin-2-Gene-transfected Cells from a Spontaneous Mouse Mammary Adenocarcinoma.** Federica Cavallo, Francesco Di Pierro, Mirella Giovarelli, Alberto Gulino, Alessandra Vacca, Antonella Stoppacciaro, Marco Forni, Andrea Modesti, and Guido Forni.
- 5071 Cooperation between *v-fos* and *v-ras*^{HA} Induces Autonomous Papillomas in Transgenic Epidermis but not Malignant Conversion.** David A. Greenhalgh, Maria I. Quintanilla, Christine C. Orengo, Jennifer L. Barber, Joshua N. Eckhardt, Joseph A. Rothnagel, and Dennis R. Roop.
- 5076 Polymerase Chain Reaction Analysis of Parathyroid Hormone-related Protein Gene Expression in Breast Cancer Patients and Occurrence of Bone Metastases.** Zhor Bouizar, Frédérique Spyrtos, Stéphanie Deytieu, Marie-Christine de Vernejoul, and Annick Jullienne.
- 5079 Coexistence of Somatic and Germ-Line Mutations of *APC* Gene in Desmoid Tumors from Patients with Familial Adenomatous Polyposis.** Michiko Miyaki, Motoko Konishi, Rei Kikuchi-Yanoshita, Masayuki Enomoto, Kiyoko Tanaka, Hiromi Takahashi, Masatoshi Muraoka, Takeo Mori, Fumio Konishi, and Takeo Iwama.
- 5083 Linkage Analysis of *DRD2*, a Marker Linked to the Ataxia-Telangiectasia Gene, in 64 Families with Premenopausal Bilateral Breast Cancer.** Victoria Cortessis, Sue Ingles, Robert Millikan, Anh Diep, Richard A. Gatti, Lesley Richardson, W. Douglas Thompson, Annlia Paganini-Hill, Robert S. Sparkes, and Robert W. Haile.
- 5087 Genetic Instability in Pancreatic Cancer and Poorly Differentiated Type of Gastric Cancer.** Hye-Jung Han, Akio Yanagisawa, Yo Kato, Jae-Gahb Park, and Yusuke Nakamura.
- 5090 High Affinity Binding Sites for Gastrin Releasing Peptide on Human Gastric Cancer and Ménétrier's Mucosa.** Shaun R. Preston, Linda F. Woodhouse, Steven Jones-Blackett, Judy I. Wyatt, and John N. Primrose.
- 5093 Evidence for Two Bladder Cancer Suppressor Loci on Human Chromosome 9.** J. Michael Ruppert, Kaori Tokino, and David Sidransky.
- 5096 Simultaneous Analysis of Cell Cycle Kinetics at Two Different DNA Ploidy Levels Based on DNA Content and Cyclin B Measurements.** Jianping Gong, Frank Traganos, and Zbigniew Darzynkiewicz.
- 5100 Genetic Instability of Microsatellites in Endometrial Carcinoma.** John I. Risinger, Andrew Berchuck, Matthew F. Kohler, Patrice Watson, Henry T. Lynch, and Jeff Boyd.
- 5104 Elevated Production of Active Oxygen in Bloom's Syndrome Cell Lines.** Thomas Nicotera, Kuldip Thusu, and Paresch Dandona.
- 5108 Fusion of *PAX3* to a Member of the Forkhead Family of Transcription Factors in Human Alveolar Rhabdomyosarcoma.** David N. Shapiro, Jack E. Sublett, Baitao Li, James R. Downing, and Clayton W. Naeve.

Special Lecture

- 5113 Recent Advances in Head and Neck Cancer—Larynx Preservation and Cancer Chemoprevention: The Seventeenth Annual Richard and Hinda Rosenthal Foundation Award Lecture.** Waun Ki Hong, Scott M. Lippman, and Gregory T. Wolf.

Regular Articles

Biochemistry and Biophysics

- 5121 Involvement of Human Liver Cytochrome P450 3A in Vinblastine Metabolism: Drug Interactions.** Xin-Ru Zhou-Pan, Eric Sérée, Xiao-Jian Zhou, Michel Placidi, Patrick Maurel, Yves Barra, and Roger Rahmani.
- 5127 Adducts of Mitomycin C and DNA in EMT6 Mouse Mammary Tumor Cells: Effects of Hypoxia and Dicumarol on Adduct Patterns.** Roland Bizanek, Dondapati Chowdary, Hitoshi Arai, Masaji Kasai, Christine S. Hughes, Alan C. Sartorelli, Sara Rockwell, and Maria Tomasz.
- 5135 Cytochrome P-450-induced Cytotoxicity of Mitoxantrone by Formation of Electrophilic Intermediates.** Kersten Mewes, Joachim Blanz, Gerhard Ehninger, Rolf Gebhardt, and Klaus-Peter Zeller.
- 5143 Purine Nucleotide Levels in Host Tissues of Ehrlich Ascites Tumor-bearing Mice in Different Growth Phases of the Tumor.** Werner G. Siems, Tilman Grune, Heike Schmidt, Yuri V. Tikhonov, and Alexej M. Pimenov.
- 5148 Inhibitory Effects of α -Interferon on Epidermal Growth Factor-mediated Receptor-dependent Events.** E. N. Fish, J. Ghislain, J. Trogadis, and J. K. Stevens.

Carcinogenesis

- 5158 Migratory Pattern of Fetal Rat Brain Cells and Human Glioma Cells in the Adult Rat Brain.** Paal-Henning Pedersen, Kirsten Marienhagen, Sverre Mørk, and Rolf Bjerkvig.
- 5166 Insulin-like Growth Factor II and WT1 Transcript Localization in Human Fetal Kidney and Wilms' Tumor.** Kankatsu Yun, Andrew E. Fidler, Michael R. Eccles, and Anthony E. Reeve.
- 5172 Enhancement of Rat Urinary Bladder Tumorigenesis by Lipopolysaccharide-induced Inflammation.** Koji Kawai, Masashi Yamamoto, Shuji Kameyama, Hitoshi Kawamata, Alfred Rademaker, and Ryoichi Oyasu.

Clinical Investigations

- 5176 Phase I Trial of an Oral Immunomodulator and Interferon Inducer in Cancer Patients.** Patricia L. Witt, Paul S. Ritch, Douglas Reding, Timothy L. McAuliffe, Linda Westrick, Sidney E. Grossberg, and Ernest C. Borden.

- 5181 **Individualized Chemotherapy for Patients with Non-Small Cell Lung Cancer Determined by Prospective Identification of Neuroendocrine Markers and *in Vitro* Drug Sensitivity Testing.** Gail L. Shaw, Adi F. Gazdar, Ruby Phelps, R. Ilona Linnoila, Daniel C. Ihde, Bruce E. Johnson, Herbert K. Oie, Harvey I. Pass, Seth M. Steinberg, Bimal C. Ghosh, Thomas E. Walsh, John C. Nesbitt, James D. Cotelingam, John D. Minna, and James L. Mulshine.

Endocrinology

- 5188 **Improved Prediction of Survival in Advanced Adenocarcinoma of the Ovary by Immunocytochemical Analysis and the Composition Adjusted Receptor Level of the Estrogen Receptor.** Dirk G. Kieback, Susan K. McCamant, Michael F. Press, E. Neely Atkinson, Harry S. Gallager, Creighton L. Edwards, Richard A. Hajek, and Lovell A. Jones.
- 5193 **Estrogen and Antiestrogen Modulation of MCF7 Human Breast Cancer Cell Proliferation Is Associated with Specific Alterations in Accumulation of Insulin-like Growth Factor-binding Proteins in Conditioned Media.** Susan E. Pratt and Michael N. Pollak.
- 5199 **Hormone Regulation of Human Prostate in Organ Culture.** Marja T. Nevalainen, Pirkko L. Härkönen, Eeva M. Valve, Wu Ping, Martti Nurmi, and Paula M. Martikainen.
- 5208 **CCK_A and CCK_B Receptors Are Expressed in Small Cell Lung Cancer Lines and Mediate Ca²⁺ Mobilization and Clonal Growth.** Tariq Sethi, Thomas Herget, S. Vincent Wu, John H. Walsh, and Enrique Rozenfurt.
- 5214 **Thymosin α 1 Down-regulates the Growth of Human Non-Small Cell Lung Cancer Cells *in Vitro* and *in Vivo*.** Terry W. Moody, Mirela Fagarasan, Farah Zia, Mirjana Cesnjaj, and Allan L. Goldstein.

Experimental Therapeutics

- 5219 **Resistance to Fluorodeoxyuridine-induced DNA Damage and Cytotoxicity Correlates with an Elevation of Deoxyuridine Triphosphatase Activity and Failure to Accumulate Deoxyuridine Triphosphate.** Christine E. Canman, Theodore S. Lawrence, Donna S. Shewach, Hsin-Yi Tang, and Jonathan Maybaum.
- 5225 **Cross-Resistance to Diverse Drugs Is Associated with Primary Cisplatin Resistance in Ovarian Cancer Cell Lines.** Kinya Hamaguchi, Andrew K. Godwin, Michiaki Yakushiji, Peter J. O'Dwyer, Robert F. Ozols, and Thomas C. Hamilton.
- 5233 **Angiogenesis Inhibitor TNP-470 (AGM-1470) Potently Inhibits the Tumor Growth of Hormone-independent Human Breast and Prostate Carcinoma Cell Lines.** Masuo Yamaoka, Toshihiro Yamamoto, Shuichi Ikeyama, Katsuichi Sudo, and Takeshi Fujita.
- 5237 **Protection from Adriamycin Cytotoxicity in L1210 Cells by Brefeldin A.** Paul J. Vichi and Thomas R. Tritton.

Immunology

- 5244 **Molecular Cloning of a Human Monoclonal Antibody Reactive to Ganglioside G_{M3} Antigen on Human Cancers.** Dave S. B. Hoon, Yuan Wang, Lan Sze, Hidetoshi Kanda, Takeshi Watanabe, Sherie L. Morrison, Donald L. Morton, and Reiko F. Irie.

Molecular Biology and Genetics

- 5251 **Neu Differentiation Factor (Heregulin) Induces Expression of Intercellular Adhesion Molecule 1: Implications for Mammary Tu-**

mors. Sarah S. Bacus, Andrei V. Gudkov, Carolyn R. Zelnick, Dot Chin, Randi Stern, Ilana Stancovski, Elinor Peles, Noa Ben-Baruch, Hannan Farbstein, Ruth Lupu, Duanzhi Wen, Michael Sela, and Yosef Yarden.

- 5262 **Development of Resistance to Hydroxyurea during Treatment of Human Myelogenous Leukemia K562 Cells with α -Difluoromethylornithine as a Result of Coamplification of Genes for Ornithine Decarboxylase and Ribonucleotide Reductase R2 Subunit.** Anders Ask, Lo Persson, Astrid Rehnholm, Lennart Frostesjö, Ingvar Holm, and Olle Heby.
- 5269 **Absence of *p53* Gene Mutations in Primary Neuroblastomas.** Kyle Vogan, Mark Bernstein, Jean-Marie Leclerc, Linda Brisson, Josee Brossard, Garrett M. Brodeur, Jerry Pelletier, and Philippe Gros.
- 5274 **The "Bystander Effect": Tumor Regression When a Fraction of the Tumor Mass Is Genetically Modified.** Scott M. Freeman, Camille N. Abboud, Katharine A. Whartenby, Charles H. Packman, David S. Koepflin, Frederick L. Moolten, and George N. Abraham.
- 5284 **Mutations of the *p53* Gene Are Involved in Ewing's Sarcomas but not in Neuroblastomas.** Hiroaki Komuro, Yasuhide Hayashi, Machiko Kawamura, Kenshi Hayashi, Yasuhiko Kaneko, Shigehiko Kamoshita, Ryoji Hanada, Keiko Yamamoto, Teruaki Hongo, Masao Yamada, and Yoshiaki Tsuchida.

Tumor Biology

- 5289 **Overexpression of Acidic and Basic Fibroblast Growth Factors in Human Pancreatic Cancer Correlates with Advanced Tumor Stage.** Yoichiro Yamanaka, Helmut Friess, Markus Buchler, Hans G. Beger, Eiji Uchida, Masahiko Onda, Michael S. Kobrin, and Murray Korc.
- 5297 **Basic Fibroblast Growth Factor Secreted by an Animal Tumor Is Detectable in Urine.** Alexander D. Soutter, Mai Nguyen, Hiroyuki Watanabe, and Judah Folkman.
- 5300 **Epidermal Growth Factor Receptor-mediated Autocrine and Paracrine Stimulation of Human Transitional Cell Carcinoma.** Martin E. Gleave, Jer-Tsong Hsieh, Hsi-Chin Wu, Sung-Joon Hong, Haiyen E. Zhou, Paul D. Guthrie, and Leland W. K. Chung.
- 5308 **Tumor Cell Heme Uptake Induces Ferritin Synthesis Resulting in Altered Oxidant Sensitivity: Possible Role in Chemotherapy Efficacy.** Jaroslav Cermak, József Balla, Harry S. Jacob, György Balla, Helen Enright, Karl Nath, and Gregory M. Vercellotti.
- 5314 **Apoptosis Induced in Burkitt's Lymphoma Cells via Gb3/CD77, a Glycolipid Antigen.** Marianne Mangeney, Clifford A. Lingwood, Samir Taga, Bernard Caillou, Thomas Tursz, and Joëlle Wiels.
- 5320 **Coexistence of Aneuploid Subclones within a Myeloma Cell Line That Exhibits Clonal Immunoglobulin Gene Rearrangement: Clinical Implications.** Diane F. Jelinek, Gregory J. Ahmann, Philip R. Greipp, Syed M. Jalal, Jennifer J. Westendorf, Jerry A. Katzmann, Robert A. Kyle, and John A. Lust.
- 5328 **Malignant Transformation of Cutaneous Lesions in Renal Allograft Patients: A Role for Human Papillomavirus?** Karin J. Purdie, Connie J. Sexton, Charlotte M. Proby, Mary T. Glover, Anthony T. Williams, Jeremy N. Stables, and Irene M. Leigh.

Virology

5334 Announcements

New Schedule for Annual Meetings of the
AACR Beginning in 1994
New Privileges and Responsibilities of
Corresponding Membership
Broadening of Associate Membership
Call for Suggestions for Association
Officers and Directors
AACR Special Conferences in Cancer
Research
Calendar of Events

**New Guidelines and Application
Forms for AACR Membership
following Author Index**

**Also available in the back
of this issue:
Guidelines for Submitting Disks to
AACR Publications**

5337 Author Index

Cancer Research

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

53 (21)

Cancer Res 1993;53:5067-5336.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/53/21.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/53/21.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.