



CONTENTS

Advances in Brief

- 211 **Human Tumor Gangliosides Inhibit Murine Immune Responses *in Vivo*.** Ruixiang Li, Nelly Villacreses, and Stephan Ladisch.
- 215 **Clonal Expansion and Attenuated Apoptosis in Wilms' Tumors Are Associated with *p53* Gene Mutations.** Nabeel Bardeesy, J. Bruce Beckwith, and Jerry Pelletier.
- 220 **Tumor Progression and Loss of Heterozygosity at 5q and 18q in Non-Small Cell Lung Cancer.** Kwun M. Fong, Paul V. Zimmerman, and Peter J. Smith.
- 224 **Localization of Tumor Suppressor Loci on Chromosome 9 in Primary Human Renal Cell Carcinomas.** Paul Cairns, Kaori Tokino, Yolanda Eby, and David Sidransky.
- 228 **Unscheduled Activation of Cyclin B1/Cdc2 Kinase in Human Promyelocytic Leukemia Cell Line HL60 Cells Undergoing Apoptosis Induced by DNA Damage.** Tsunehiro Shimizu, Patrick M. O'Connor, Kurt W. Kohn, and Yves Pommier.
- 232 **Enhanced Efficacy of Combinations of Retinoic Acid- and Retinoid X Receptor-selective Retinoids and α -Interferon in Inhibition of Cervical Carcinoma Cell Proliferation.** Reuben Lotan, Marcia I. Dawson, Chang-Chun Zou, Ling Jong, Dafna Lotan, and Chang-Ping Zou.
- 237 ***bcl-2* and *p53* Oncoprotein Expression during Colorectal Tumorigenesis.** Frank A. Sinicrope, San Bao Ruan, Karen R. Cleary, L. Clifton Stephens, J. Jack Lee, and Bernard Levin.
- 242 **Structure of the Human *MLH1* Locus and Analysis of a Large Hereditary Nonpolyposis Colorectal Carcinoma Kindred for *mlh1* Mutations.** Richard D. Kolodner, Nigel R. Hall, James Lipford, Michael F. Kane, Paul T. Morrison, Paul J. Finan, John Bum, Pamela Chapman, Christine Earabino, Elizabeth Merchant, and D. Timothy Bishop.

Perspectives in Cancer Research

- 249 **The Insulin-like Growth Factor I Receptor: A Key to Tumor Growth?** Renato Baserga.

Regular Articles

Carcinogenesis

- 253 **Fibers Released from Cigarette Filters: An Additional Health Risk to the Smoker?** John L. Pauly, Heather A. Allaart, Manuel I. Rodriguez, and Richard J. Streck.
- 259 **Chemoprevention of Colon Carcinogenesis by Dietary Curcumin, a Naturally Occurring Plant Phenolic Compound.** Chinthalapally V. Rao, Abraham Rivenson, Barbara Simi, and Bandaru S. Reddy.

Clinical Investigations

- 267 **Correlation of the *in Situ* Detection of Polymerase Chain Reaction-amplified Metalloproteinase Complementary DNAs and Their Inhibitors with Prognosis in Cervical Carcinoma.** Gerard J. Nuovo, Phyllis B. MacConnell, Aylin Simsir, Fidel Valea, and Deborah L. French.

- 276 **Cholecystokinin-B/Gastrin Receptor: A Novel Molecular Probe for Human Small Cell Lung Cancer.** Yoshinobu Matsumori, Nobuyuki Katakami, Mitsuhiro Ito, Taizo Taniguchi, Nobuko Iwata, Tomoaki Takaishi, Kazuo Chihara, and Toshimitsu Matsui.

Endocrinology

- 280 **Characterization of Bombesin/Gastrin-releasing Peptide Receptors in Human Breast Cancer and Their Relationship to Steroid Receptor Expression.** Gabor Halmos, James L. Wittliff, and Andrew V. Schally.
- 288 **Exon 5 Deletion Variant Estrogen Receptor Messenger RNA Expression in Relation to Tamoxifen Resistance and Progesterone Receptor/*pS2* Status in Human Breast Cancer.** Angela A. I. Daffada, Stephen R. D. Johnston, Ian E. Smith, Simone Detre, Nicholas King, and Mitchell Dowsett.

Epidemiology

- 294 **Antiepileptic Treatment and Risk for Hepatobiliary Cancer and Malignant Lymphoma.** Jørgen H. Olsen, Gabi Schulgen, John D. Boice, Jr., John Whysner, Lois B. Travis, Gary M. Williams, Frank B. Johnson, and James O'D. McGee.

Experimental Therapeutics

- 298 **Basic Fibroblast Growth Factor Does Not Protect against Classical Radiation Pneumonitis in Two Strains of Mice.** Patricia Grace Tee and Elizabeth L. Travis.
- 303 **Insulin-like Growth Factor I (IGF-I) and the IGF-I Receptor Prevent Etoposide-induced Apoptosis.** Christian Sell, Renato Baserga, and Raphael Rubin.
- 307 **Normocalcemic Effect of Gallium Nitrate in a Hypercalcemic Rat Model.** Juan-Ru Lin, Ihor Bekersky, Nita S. Brown, Seymour Mong, Francis Lee, Robert A. Newman, and Dah Hsi Ho.
- 312 **Change of the Sequence Specificity of Daunorubicin-stimulated Topoisomerase II DNA Cleavage by Epimerization of the Amino Group of the Sugar Moiety.** Giovanni Capranico, Eugenio Butelli, and Franco Zunino.

Immunology

- 318 **Rapid and Specific Uptake of Anti-Tac Disulfide-stabilized Fv by Interleukin-2 Receptor-bearing Tumors.** Keith O. Webber, Robert J. Kreitman, and Ira Pastan.
- 324 **Hemotoxicity by Prolonged Etoposide Administration to Mice Can Be Prevented by Simultaneous Growth Factor Therapy.** Gerald de Haan, Christoph Engel, Bert Dontje, Markus Loeffler, and Willem Nijhof.

Molecular Biology and Genetics

- 330 **NAD(P)H:Quinone Oxidoreductase Expression and Mitomycin C Resistance Developed by Human Colon Cancer HCT 116 Cells.** Su-shu Pan, Gerald L. Forrest, Steven A. Akman, and Li-Tai Hu.
- 336 **DNA Repair in the *MYC* and *FMS* Proto-oncogenes in Ultraviolet Light-irradiated Human HL60 Promyelocytic Cells during Differentiation.** Ángel L. Islas and Philip C. Hanawalt.

- 342 **Genetic Changes in Primary and Recurrent Prostate Cancer by Comparative Genomic Hybridization.** Tapio Visakorpi, Anne H. Kallioniemi, Ann-Christine Syvänen, Eija R. Hyytinen, Ritva Karhu, Teuvo Tammela, Jorma J. Isola, and Olli-P. Kallioniemi.
- 348 **Splice Site Mutation in the Glucocorticoid Receptor Gene Causes Resistance to Glucocorticoid-induced Apoptosis in a Human Acute Leukemic Cell Line.** Elisabeth M. C. Strasser-Wozak, Rosa Hattmannstorfer, Monika Hála, Bernd L. Hartmann, Michael Fiegl, Stephan Geley, and Reinhard Kofler.
- 354 ***bcl-2* Deficiency in Mice Leads to Pleiotropic Abnormalities: Accelerated Lymphoid Cell Death in Thymus and Spleen, Polycystic Kidney, Hair Hypopigmentation, and Distorted Small Intestine.** Shinji Kamada, Akihiko Shimono, Yoshitaka Shinto, Tohru Tsujimura, Takeshi Takahashi, Tetsuo Noda, Yukihiko Kitamura, Hisato Kondoh, and Yoshihide Tsujimoto.
- Tumor Biology**
- 360 **Pathogenesis of Ascites Tumor Growth: Vascular Permeability Factor, Vascular Hyperpermeability, and Ascites Fluid Accumulation.** Janice A. Nagy, Elizabeth M. Masse, Kemp T. Herzberg, Michelle S. Meyers, Kiang-Teck Yeo, Tet-Kin Yeo, Tracy M. Sioussat, and Harold F. Dvorak.
- 369 **Pathogenesis of Ascites Tumor Growth: Fibrinogen Influx and Fibrin Accumulation in Tissues Lining the Peritoneal Cavity.** Janice A. Nagy, Michelle S. Meyers, Elizabeth M. Masse, Kemp T. Herzberg, and Harold F. Dvorak.
- 376 **Pathogenesis of Ascites Tumor Growth: Angiogenesis, Vascular Remodeling, and Stroma Formation in the Peritoneal Lining.** Janice A. Nagy, Ellen S. Morgan, Kemp T. Herzberg, Eleanor J. Manseau, Ann M. Dvorak, and Harold F. Dvorak.
- 386 **Quantitative Distinction of Cisplatin-sensitive and -resistant Mouse Fibrosarcoma Cells Grown in Multicell Tumor Spheroids.** K. R. Frenzel, R. M. Saller, J. Kummermehr, and S. Schultz-Hector.
- 392 **Cell Proliferation Kinetics in Human Tumor Xenografts Measured with Iododeoxyuridine Labeling and Flow Cytometry: A Study of Heterogeneity and a Comparison between Different Methods of Calculation and Other Proliferation Measurements.** Luis A. Perez, David Dombkowski, Jimmy Efir, Frederic Preffer, and Herman D. Suit.
- 399 **Progression of Hormone-dependent Adenocarcinoma Cells to Hormone-independent Spindle Carcinoma Cells *in Vitro* in a Clonal Spontaneous Rat Mammary Tumor Cell Line.** Hayao Nakanishi, Robert M. Taylor, Francis J. Chrest, Tsuneo Masui, Kazuhiko Utsumi, Masae Tatematsu, and Antonino Passaniti.
- 408 **Sigma-1 and Sigma-2 Receptors Are Expressed in a Wide Variety of Human and Rodent Tumor Cell Lines.** Bertold J. Vilner, Christy S. John, and Wayne D. Bowen.
- 414 **Involvement of the Very Late Antigen 4 Integrin on Melanoma in Interleukin 1-augmented Experimental Metastases.** Angela Garofalo, Renato G. S. Chirivi, Chiara Foglieni, Rod Pigott, Roberta Mortarini, Ines Martin-Padura, Andrea Anichini, Andy J. Gearing, Francisco Sanchez-Madrid, Elisabetta Dejana, and Raffaella Giavazzi.
- 420 **Cell Type-specific Fingerprinting of Meningioma and Meningeal Cells by Proton Nuclear Magnetic Resonance Spectroscopy.** Catarina L. Florian, Nicholas E. Preece, Kishore K. Bhakoo, Stephen R. Williams, and Mark D. Noble.
- 428 **Hyaluronan on the Surface of Tumor Cells Is Correlated with Metastatic Behavior.** Lurong Zhang, Charles B. Underhill, and Lieping Chen.
- 434 **The Human Tumor Cell-derived Collagenase Stimulatory Factor (Renamed EMMPRIN) Is a Member of the Immunoglobulin Superfamily.** Chitra Biswas, Ying Zhang, Rosana DeCastro, Huiming Guo, Toshiya Nakamura, Hiroaki Kataoka, and Kazuki Nabeshima.
- 440 **Promyelocytic Leukemia-specific PML-Retinoic Acid α Receptor Fusion Protein Interferes with Erythroid Differentiation of Human Erythroleukemia K562 Cells.** Francesco Grignani, Ugo Testa, Marta Fagioli, Tiziano Barberi, Rosalba Masciulli, Gualtiero Mariani, Cesare Peschle, and Pier Giuseppe Pelicci.
- 444 **2-Deoxy-D-Glucose Enhances Sensitivity of Human Histiocytic Lymphoma U937 Cells to Apoptosis Induced by Tumor Necrosis Factor.** H. Dorota Halicka, Barbara Ardel, Xun Li, Myron M. Melamed, and Zbigniew Darzynkiewicz.
- Meeting Report**
- 450 **Keystone Symposium on Complex Carbohydrates in Biology and Medicine: Cancer.** Barbra Rodriguez-Thomas.

454 Announcements

Future Annual Meetings of the AACR
Workshop on Histopathobiology of
Cancer
Workshop on Molecular Biology in
Clinical Oncology
Workshop on Methods in Clinical Cancer
Research
AACR Special Conferences in Cancer
Research
Recent Death
Calendar of Events

457 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:**

**Advance Registration Form for the
86th 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)

55 (2)

Cancer Res 1995;55:211-456.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/55/2.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/55/2.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.