



CONTENTS

Advances in Brief

- 4741** **Aberrant Expression of Type I Fibroblast Growth Factor Receptor in Human Pancreatic Adenocarcinomas.** Michael S. Kobrin, Yoichiro Yamanaka, Helmut Friess, Martha E. Lopez, and Murray Korc.
- 4745** **Evidence for Oligoclonal T-Cell Response in a Metastasis of Renal Cell Carcinoma Responding to Vaccination with Autologous Tumor Cells and Transfer of *in Vitro*-sensitized Vaccine-draining Lymph Node Lymphocytes.** Eckhart Weidmann, Theodore F. Logan, Satoshi Yasumura, John M. Kirkwood, Massimo Trucco, and Theresa L. Whiteside.
- 4750** **A Single Amino Acid Change in Human *O*⁶-Alkylguanine-DNA Alkyltransferase Decreasing Sensitivity to Inactivation by *O*⁶-Benzylguanine.** Tina M. Crone and Anthony E. Pegg.
- 4754** **Expression of CD44 Variant Proteins in Human Colorectal Cancer Is Related to Tumor Progression.** Vera J. M. Wielenga, Karl-Heinz Heider, G. Johan A. Offerhaus, Günther R. Adolf, Frank M. van den Berg, Helmut Ponta, Peter Herrlich, and Steven T. Pals.
- 4757** **Altered *trans*-Activational Properties of a Mutated *WT1* Gene Product in a WAGR-associated Wilms' Tumor.** Seon Park, Gail Tomlinson, Perry Nisen, and Daniel A. Haber.
- 4761** **Homozygous Deletions within 9p21-p22 Identify a Small Critical Region of Chromosomal Loss in Human Malignant Mesotheliomas.** Jin Quan Cheng, Suresh C. Jhanwar, You Yong Lu, and Joseph R. Testa.
- 4764** **Dexamethasone Reduces the Interstitial Fluid Pressure in a Human Colon Adenocarcinoma Xenograft.** Paul E. G. Kristjansen, Yves Boucher, and Rakesh K. Jain.
- 4767** **Prevention of Carcinogenicity of Anticancer Drugs by Metallothionein Induction.** Masahiko Satoh, Yukihiko Kondo, Masaharu Mita, Ippei Nakagawa, Akira Naganuma, and Nobumasa Imura.
- 4769** **The Synthetic Retinoid Fenretinide Lowers Plasma Insulin-like Growth Factor I Levels in Breast Cancer Patients.** Rosalba Torrisi, Floriana Pensa, Maria Antonietta Orenco, Elie Catsafados, Paola Ponzani, Francesco Boccardo, Alberto Costa, and Andrea Decensi.
- 4772** **Inactive *p53* Mutants May Enhance the Transcriptional Activity of Wild-Type *p53*.** Wei Zhang, Jerry W. Shay, and Albert Deisseroth.
- 4776** **Role of the *p53* Tumor Suppressor Gene in Cell Cycle Arrest and Radiosensitivity of Burkitt's Lymphoma Cell Lines.** Patrick M. O'Connor, Joany Jackman, Daniel Jondle, Kishor Bhatia, Ian Magrath, and Kurt W. Kohn.
- 4781** **Maintenance of Genomic Imprinting at the *IGF2* Locus in Hepatoblastoma.** Stella M. Davies.

Regular Articles

Biochemistry and Biophysics

- 4784** **Molecular and Cellular Interactions between Intopicline, DNA, and Topoisomerase II Studied by Surface-enhanced Raman Scattering Spectroscopy.** Hamid Morjani, Jean-François Riou, Igor Nabiev, François Lavelle, and Michel Manfait.
- 4791** **Monoclonal Antibody 2B5 Defines a Truncated *O*-Glycan, GlcNAc β 1-3Gal β 1-4GlcNAc β 1-6 (GalNAc), on Mucins from Deep Gastric and Duodenal Glands as Well as Metaplasia and Neoplasia of Gastric Differentiation.** F-G. Hanisch, U. Koldovsky, and F. Borchard.

Carcinogenesis

- 4797** **Immortalization of Syrian Hamster Embryo Cells: Probabilistic Event or Deterministic Process.** Bart L. M. C. Bols, Karin C. P. M. Gillis, Jolanda M. Naaktgeboren, Paul H. M. Lohman, Matthieu Niericker, and Johannes W. I. M. Simons.
- 4803** **The Suprabasal Expression of $\alpha 6 \beta 4$ Integrin Is Associated with a High Risk for Malignant Progression in Mouse Skin Carcinogenesis.** Tamar Tennenbaum, Arin K. Weiner, Adam J. Belanger, Adam B. Glick, Henry Hennings, and Stuart H. Yuspa.
- 4811** **HPV-16, Tobacco-specific *N*-Nitrosamine, and *N*-Methyl-*N'*-nitro-*N*-nitrosoguanidine in Oral Carcinogenesis.** Myong Soo Kim, Ki-Hyuk Shin, Jeong-Hwa Baek, Henry M. Cherrick, and No-Hee Park.
- 4817** **p53 Protein Accumulates Frequently in Early Bronchial Neoplasia.** W. P. Bennett, T. V. Colby, W. D. Travis, A. Borkowski, R. T. Jones, D. P. Lane, R. A. Metcalf, J. M. Samet, Y. Takeshima, J. R. Gu, K. H. Vähäkangas, Y. Soini, P. Pääkkö, J. A. Welsh, B. F. Trump, and C. C. Harris.

Clinical Investigations

- 4823** **High-Risk Human Papillomavirus Infections and Overexpression of p53 Protein as Prognostic Indicators in Transitional Cell Carcinoma of the Urinary Bladder.** Mutsuo Furihata, Keiji Inoue, Yuji Ohtsuki, Hirofumi Hashimoto, Naotami Terao, and Yukitoshi Fujita.
- 4828** **A Phase I Study of Continuous Infusion 5-Fluorouracil plus Calcium Leucovorin in Combination with *N*-(Phosphonacetyl)-*L*-aspartate in Metastatic Gastrointestinal Adenocarcinoma.** J. L. Grem, N. McAtee, S. M. Steinberg, J. M. Hamilton, R. F. Murphy, J. Drake, T. Chisena, F. Balis, R. Cysyk, S. G. Arbuck, J. M. Sorensen, A. P. Chen, L. Goldstein, E. Jordan, A. Setser, B. Goldspiel, M. DeCarvalho, and C. J. Allegra.
- 4837** **Phase I Pharmacokinetic Study of Cyclosporin A Combined with Doxorubicin.** Charles Erlichman, Malcolm Moore, Jake J. Thiessen, Ian G. Kerr, Scott Walker, Phyllis Goodman, Georg Bjarason, Carlo DeAngelis, and Peter Bunting.

- 4843 **Phase I Evaluation and Pharmacokinetic Study of Pyrazine-2-diazohydroxide Administered as a Single Bolus Intravenous Injection in Patients with Advanced Solid Tumors.** Jeffrey G. Supko, S. P. Balcerzak, and Eric H. Kraut.
- 4933 **Human Cytotoxic T-Cells Suppress the Growth of Spontaneous Melanoma Metastases in SCID/hu Mice.** Helen Sabzevari and Ralph A. Reisfeld.

- 4850 **Plasma and Cellular Pharmacokinetics of Mitoxantrone in High-Dose Chemotherapeutic Regimen for Refractory Lymphomas.** Pierre Canal, Michel Attal, Etienne Chatelut, Sylvie Guichard, Françoise Hugué, Catherine Muller, Daniel Schlaifer, Guy Laurent, Georges Houin, and Roland Bugat.

Endocrinology

- 4855 **Human Prostatic Inhibin Suppresses Tumor Growth and Inhibits Clonogenic Cell Survival of a Model Prostatic Adenocarcinoma, the Dunning R3327G Rat Tumor.** Balakrishna L. Lokeshwar, Kalpana S. Hurkadli, Anil R. Sheth, and Norman L. Block.

Epidemiology

- 4860 **A Prospective Cohort Study on Selenium Status and the Risk of Lung Cancer.** Piet A. van den Brandt, R. Alexandra Goldbohm, Pieter van 't Veer, Peter Bode, Elisabeth Dorant, Rudolph J. J. Hermus, and Ferd Sturmans.

Experimental Therapeutics

- 4866 **Altered Topoisomerase II α in a Drug-resistant Small Cell Lung Cancer Cell Line Selected in VP-16.** Shelagh E. L. Mirski, Cindy D. Evans, Kurt C. Almquist, Marilyn L. Slovak, and Susan P. C. Cole.
- 4874 **Metallothionein: A Protein Conferring Resistance *in Vitro* to Tumor Necrosis Factor.** Karen Leyshon-Sørland, Lars Mørkrid, and Hans Erik Rugstad.
- 4881 **Etoposide Pharmacokinetics in Children: The Development and Prospective Validation of a Dosing Equation.** Stephen P. Lewis, Andrew D. J. Pearson, David R. Newell, and Michael Cole.
- 4890 **Development of a Novel Spontaneous Metastasis Model of Human Osteosarcoma Transplanted Orthotopically into Bone of Athymic Mice.** Örfan Berlin, Dvorit Samid, Rakesh Donthineni-Rao, Wayne Akeson, David Amiel, and Virgil L. Woods, Jr.
- 4896 **Inhibition of Experimental Metastasis by an α -Glucosidase Inhibitor, 1,6-Epi-cyclophellitol.** Sonoko Atsumi, Chisato Nosaka, Yusuke Ochi, Hironobu Iinuma, and Kazuo Umezawa.
- 4900 **Expression of a Rat Glutathione-S-transferase Complementary DNA in Rat Mammary Carcinoma Cells: Impact upon Alkylator-induced Toxicity.** Robyn L. Schechter, Moulay A. Alaoui-Jamali, Annie Woo, William E. Fahl, and Gerald Batist.
- 4907 **Reductive Activation of Mitomycin C by NADH:Cytochrome b_5 Reductase.** William F. Hodnick and Alan C. Sartorelli.
- 4913 **Cellular Pharmacology of Liposomal *cis*-Bis-neodecanoato-*trans*-*R,R*-1,2-diaminocyclohexaneplatinum(II) in A2780/S and A2780/PDD Cells.** Insook Han, Yi-He Ling, Salaam Al-Baker, Abdul R. Khokhar, and Roman Perez-Soler.

Immunology

- 4920 **Expression of a Recombinant Breast Tumor-associated Mucin Fusion Protein in *Escherichia coli* Exposes the Tumor-specific Epitope.** Peisheng Hu and Stephen E. Wright.
- 4927 **Clinical Relevance of ICAM-1 Expression in Primary Lesions and Serum of Patients with Malignant Melanoma.** Toshiro Kageshita, Akira Yoshii, Toru Kimura, Norikazu Kuriya, Tomomichi Ono, Masayuki Tsujisaki, Kohzo Imai, and Soldano Ferrone.

Molecular Biology and Genetics

- 4938 **The Expression of Mouse Biliary Glycoprotein, a Carcinoembryonic Antigen-related Gene, Is Down-Regulated in Malignant Mouse Tissues.** Madelaine Rosenberg, Patrick Nédellec, Serge Jothy, David Fleiszer, Claire Turbide, and Nicole Beauchemin.
- 4946 **Multiple Mechanisms of *N*-(Phosphonoacetyl)-*L*-aspartate Drug Resistance in SV40-infected Precrisis Human Fibroblasts.** Deborah I. Schaefer, Elizabeth M. Livanos, Alicia E. White, and Thea D. Tlsty.
- 4952 **Hyperthermia Induces Resistance to Ultraviolet Light B in Primary and Immortalized Epidermal Keratinocytes.** Edward V. Maytin, Laura A. Murphy, and Melissa A. Merrill.

Tumor Biology

- 4960 ***Her-2/neu* Expression in Node-negative Breast Cancer: Direct Tissue Quantitation by Computerized Image Analysis and Association of Overexpression with Increased Risk of Recurrent Disease.** Michael F. Press, Malcolm C. Pike, Victoria R. Chazin, Gene Hung, Judith A. Udove, Mitchell Markowicz, John Danyluk, William Godolphin, Mark Sliwkowski, Robert Akita, Malcolm C. Paterson, and Dennis J. Slamon.
- 4971 **Altered Extracellular Matrices Influence Cellular Processes and Nuclear Matrix Organizations of Overlying Human Bladder Urothelial Cells.** Jeffrey N. Gordon, Wei-Ping Shu, Richard N. Schluskel, Michael J. Droller, and Brian C-S. Liu.
- 4978 **Regulation of Bcl-2 Oncoprotein Levels with Differentiation of Human Neuroblastoma Cells.** Motoi Hanada, Stanislaw Krajewski, Shigeki Tanaka, Dominique Cazals-Hatem, Barbara A. Spengler, Robert A. Ross, June L. Biedler, and John C. Reed.
- 4987 **E-Cadherin: A Differentiation Marker in Thyroid Malignancies.** G. Brabant, C. Hoang-Vu, Y. Cetin, H. Dralle, G. Scheumann, J. Mölne, G. Hansson, S. Jansson, L. E. Ericson, and M. Nilsson.
- 4994 **Mitochondrial Alterations in Photodynamic Therapy-resistant Cells.** Sheila M. Sharkey, Brian C. Wilson, Roger Moorehead, and Gurmit Singh.
- 5000 **Proliferating Cell Nuclear Antigen Expression and Argyrophillic Nucleolar Organizer Regions as Factors Influencing Prognosis of Surgically Treated Lung Cancer Patients.** Teruyoshi Ishida, Satoshi Kaneko, Kouhei Akazawa, Masahiro Tateishi, Kenji Sugio, and Keizo Sugimachi.
- 5004 **Estrogen Inhibits the Growth of Estrogen Receptor-negative, but not Estrogen Receptor-positive, Human Mammary Epithelial Cells Expressing a Recombinant Estrogen Receptor.** Deborah A. Zajchowski, Ruth Sager, and Lynn Webster.
- 5012 **Quantitative Comparison between the Transplantability of Human and Murine Tumors into the Subcutaneous Tissue of NCr/Sed-*nu/nu* Nude and Severe Combined Immunodeficient Mice.** Alphonse Taghian, Wilfried Budach, Anthony Zietman, Jill Freeman, Danielle Gioioso, Wlodzimierz Ruka, and Herman D. Suit.
- 5018 **Quantitative Comparison between the Transplantability of Human and Murine Tumors into the Brain of NCr/Sed-*nu/nu* Nude and Severe Combined Immunodeficient Mice.** Alphonse Taghian, Wilfried Budach, Anthony Zietman, Jill Freeman, Danielle Gioioso, and Herman D. Suit.

- 5022 Suppression of T-Lymphoma Cell Apoptosis by Monoclonal Antibodies Raised against Cell Surface Adhesion Molecules.** Naoya Fujita, Shiro Kataoka, Mikihiko Naito, Yuji Heike, Narikazu Boku, Motowo Nakajima, and Takashi Tsuruo.
- 5028 Progressive Ovarian Carcinoma Induces Synthesis of Type I and Type III Procollagens in the Tumor Tissue and Peritoneal Cavity.** Guo-Guang Zhu, Juha Risteli, Ulla Puistola, Antti Kauppila, and Leila Risteli.
- 5033 Regulation of the Expression of Galactoside-binding Lectin during Human Monocytic Differentiation.** Pratima Nangia-Makker, Josiah Ochieng, Judith K. Christman, and Avraham Raz.
- 5038 Increased Expression of Nucleoside Diphosphate Kinase/*nm23* and *c-Ha-ras* mRNA Is Associated with Spontaneous Lung Metastasis in Rat-transplantable Osteosarcomas.** Kanya Honoki, Masahiro Tsutsumi, Yoshizumi Miyauchi, Yoshio Mii, Toshifumi Tsujiuchi, Toru Morishita, Syuichi Miura, Makoto Aoki, Eisaku Kobayashi, Susumu Tamai, and Yoichi Konishi.

- 5043 Analysis of the Functional Role of Chromosome 10 Loss in Human Glioblastomas.** Mark A. Pershouse, Elton Stubblefield, Azra Hadi, Ann M. Killary, W. K. Alfred Yung, and Peter A. Steck.
- 5051 Interleukin 1 Receptor Antagonist Inhibits the Augmentation of Metastasis Induced by Interleukin 1 or Lipopolysaccharide in a Human Melanoma/Nude Mouse System.** Renato G. S. Chirivi, Angela Garofalo, Ines Martin Padura, Alberto Mantovani, and Raffaella Giavazzi.

Meeting Report

- 5055 Molecular Mechanisms of Tumor Development and Progression: New Targets for Prevention, Diagnosis, and Therapy—A Pathology B Study Section Workshop.** Working Report From the Division of Research Grants, National Institutes of Health. Philip Furmanski, Chester J. Herman, and Martin Padarathsingh.

5060 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
 Recent Deaths
 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**

5063 Errata

H. S. Basu *et al.*, 53: 3948–3955, 1993.
 T. Taguchi *et al.*, 53: 4349–4355, 1993.

5064 Author Index

Cancer Research

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

53 (20)

Cancer Res 1993;53:4741-5063.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/53/20.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/53/20.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.