



CONTENTS

Advances in Brief

- 1213 **Persistent Inhibition of DNA Synthesis in Irradiated Rat Embryo Fibroblasts Expressing the Oncogenes H-ras plus v-myc Derives from Inhibition of Replicon Initiation and Is Mitigated by Staurosporine.** Ya Wang, Nge Cheong, and George Iliakis.
- 1218 **A Deletion Unit on Chromosome 17q in Epithelial Ovarian Tumors Distal to the Familial Breast/Ovarian Cancer Locus.** I. J. Jacobs, S. A. Smith, R. W. Wiseman, P. A. Futreal, T. Harrington, R. J. Osborne, V. Leech, A. Molyneux, A. Berchuck, B. A. J. Ponder, and R. C. Bast, Jr.
- 1222 **Heterotransplantation of Early B-Lineage Acute Lymphoblastic Leukemia Using a Solubilized Attachment Matrix (Matrigel).** Katy Sterling-Levis, Les White, Annette E. Trickett, Cilinia Gramacho, Sally M. Pittman, and Vivienne Tobias.
- 1226 **Lipid Hydroperoxides Greatly Increase the Rate of Oxidative Catabolism of All-trans-Retinoic Acid by Human Cell Culture Microsomes Genetically Enriched in Specified Cytochrome P-450 Isoforms.** Josephia F. Muindi and Charles W. Young.
- 1230 **Preliminary Mapping of the Deleted Region of Chromosome 9 in Bladder Cancer.** Paul Cairns, Margaret E. Shaw, and Margaret A. Knowles.

Regular Articles

Biochemistry and Biophysics

- 1233 **Regulation of Fibroblast Hepatocyte Growth Factor/Scatter Factor Expression by Human Breast Carcinoma Cell Lines and Peptide Growth Factors.** Stephen P. Seslar, Toshikazu Nakamura, and Stephen W. Byers.
- 1239 **Cell Killing and Chromosomal Aberrations Induced in Chinese Hamster Ovary Cells by Treating with Cisplatin at 41.5°C during G₁ or Late S Phase.** Girija Krishnaswamy and William C. Dewey.
- 1244 **Characterization of the DNA Double Strand Break Repair Defect in scid Mice.** Carolyn Chang, Kim A. Biedermann, Mauro Mezzina, and J. Martin Brown.
- 1249 **Fluence Rate Effects in Photodynamic Therapy of Multicell Tumor Spheroids.** Thomas H. Foster, Donna F. Hartley, Michael G. Nichols, and Russell Hilf.

Carcinogenesis

- 1255 **Inhibition of Tumor Promoter-mediated Processes in Mouse Skin and Bovine Lens by Caffeic Acid Phenethyl Ester.** Krystyna Frenkel, Huachen Wei, Ramesh Bhimani, Jingjing Ye, Jose A. Zadunaisky, Mou-Tuan Huang, Thomas Ferraro, Allan H. Conney, and Dezider Grunberger.
- 1262 **The Two Major CD44 Proteins Expressed on a Metastatic Rat Tumor Cell Line Are Derived from Different Splice Variants: Each**

One Individually Suffices to Confer Metastatic Behavior. Wolfgang Rudy, Martin Hofmann, Reinhard Schwartz-Albiez, Margot Zöller, Karl-Heinz Heider, Helmut Ponta, and Peter Herrlich.

- 1269 **Modification of DNA Bases in Chromatin of Intact Target Human Cells by Activated Human Polymorphonuclear Leukocytes.** Miral Dizdaroğlu, Ryszard Olinski, James H. Doroshow, and Steven A. Akman.
- 1273 **Sequence Specificity in the Interaction of the Four Stereoisomeric Benzo[c]phenanthrene Dihydrodiol Epoxides with the *supF* Gene.** Helen Ross, C. Anita H. Bigger, Haruhiko Yagi, Donald M. Jerina, and Anthony Dipple.
- 1278 **Detection of Aflatoxin B₁-DNA Adducts in Human Placenta and Cord Blood.** Ling-Ling Hsieh and Tsang-Tang Hsieh.

Clinical Investigations

- 1281 **A New Family of Heparin-binding Growth/Differentiation Factors: Increased Midkine Expression in Wilms' Tumor and Other Human Carcinomas.** Jun-ichiro Tsutsui, Kenji Kadomatsu, Shyuichiro Matsubara, Akira Nakagawara, Masahiro Hamanoue, Sonshin Takao, Hisaaki Shimazu, Yoshitada Ohi, and Takashi Muramatsu.
- 1286 **A Direct Comparison of Immunological and Clinical Effects of Interleukin 2 with and without Interferon- α in Humans.** Joan H. Schiller, Jacquelyn Hank, Barry Storer, Agnes A. Borchert, Karen Huseby Moore, Mark Albertini, Robin Bechhofer, Osvaldo Wesley, Raymond R. Brown, Ann Mrowca Bastin, and Paul M. Sondel.
- 1293 **Phase I Clinical and Pharmacological Study of Iododeoxyuridine and Bleomycin in Patients with Advanced Cancer.** Richard L. Schilsky, Linda Janisch, Frances Berezin, Rosemarie Mick, Nicholas J. Vogelzang, and Mark J. Ratain.
- 1297 **Autologous Stem Cell Transplantation: Sequential Production of Hematopoietic Cytokines Underlying Granulocyte Recovery.** G. Baiocchi, G. Scambia, P. Benedetti, G. Menichella, U. Testa, L. Pierelli, R. Martucci, M. L. Foddai, B. Bizzi, S. Mancuso, and C. Peschle.

Endocrinology

- 1304 **Androgen-induced Inhibition of Cell Proliferation in an Androgen-insensitive Prostate Cancer Cell Line (PC-3) Transfected with a Human Androgen Receptor Complementary DNA.** Shixing Yuan, John Trachtenberg, Gordon B. Mills, Theodore J. Brown, Fong Xu, and Armand Keating.
- 1312 **Progesterone Receptor Expression in Meningiomas.** Rona S. Carroll, Danuta Glowacka, Kathleen Dashner, and Peter M. Black.

Epidemiology

- 1317 **Precancerous Gastric Lesions in a Population at High Risk of Stomach Cancer.** Wei-cheng You, William J. Blot, Ji-you Li, Yun-sheng Chang, Mao-lin Jin, Robert Kneller, Lian Zhang, Zhong-xiang Han, Xiang-ru Zeng, Wei-dong Liu, Lei Zhao, Pelayo Correa, Joseph F. Fraumeni, Jr., and Guang-wei Xu.

- 1322 **Aspirin Use and Risk of Fatal Cancer.** Michael J. Thun, Mohan M. Namboodiri, Eugenia E. Calle, W. Dana Flanders, and Clark W. Heath, Jr.

Experimental Therapeutics

- 1328 **Genistein Arrests Cell Cycle Progression at G₂-M.** Yoshizumi Matsukawa, Nobuyuki Marui, Toshiyuki Sakai, Yoshiko Satomi, Mitsunori Yoshida, Katsuhiko Matsumoto, Hoyoku Nishino, and Akira Aoike.
- 1332 **A New Mammalian DNA Topoisomerase I Poison Hoechst 33342: Cytotoxicity and Drug Resistance in Human Cell Cultures.** Allan Y. Chen, Chiang Yu, Annette Bodley, Lynn F. Peng, and Leroy F. Liu.
- 1338 **Increased NAD(P)H:(Quinone-Acceptor)Oxidoreductase Activity Is Associated with Density-dependent Growth Inhibition of Normal but not Transformed Cells.** John J. Schlager, Bryan J. Hoerl, John Riebow, David P. Scott, Pam Gasdaska, Robert E. Scott, and Garth Powis.
- 1343 **Scytophycins, Novel Microfilament-depolymerizing Agents Which Circumvent P-Glycoprotein-mediated Multidrug Resistance.** Charles D. Smith, Shmuel Carmeli, Richard E. Moore, and Gregory M. L. Patterson.
- 1348 **Efficacy of Transferrin Receptor-targeted Immunotoxins in Brain Tumor Cell Lines and Pediatric Brain Tumors.** Lori A. Martell, Alka Agrawal, Donald A. Ross, and Karin M. Muraszko.
- 1354 **Multidrug Resistance Is a Component of V79 Cell Resistance to the Alkylating Agent Adozelesin.** Bijoy K. Bhuyan, Kathy S. Smith, Robert C. Kelly, Earl G. Adams, Irene Abraham, and Kathleen E. Sampson.
- 1360 **Anti-B4-blocked Ricin Immunotoxin Shows Therapeutic Efficacy in Four Different SCID Mouse Tumor Models.** Sudhir A. Shah, Patricia M. Halloran, Cynthia A. Ferris, Beth A. Levine, Lizabeth A. Bourret, Victor S. Goldmacher, and Walter A. Blättler.
- 1368 **Taxol, Radiation, and Oncogenic Transformation.** Tom K. Hei and Eric J. Hall.
- 1373 **Single-Strand Conformational Polymorphism Analysis of the M_r 170,000 Isozyme of DNA Topoisomerase II in Human Tumor Cells.** Mary K. Danks, Michael R. Warmoth, Ellen Friche, Bernd Granzen, Barbara Y. Bugg, W. Graydon Harker, Leonard A. Zwelling, Bernard W. Futscher, D. Parker Suttle, and William T. Beck.

Immunology

- 1380 **T-Cells Infiltrating Renal Cell Carcinoma Display a Poor Proliferative Response Even Though They Can Produce Interleukin 2 and Express Interleukin 2 Receptors.** Jeannine P. Alexander, Seiji Kudoh, Kathryn A. Melsop, Thomas A. Hamilton, Mark G. Edinger, Raymond R. Tubbs, Dante Sica, Laurie Tuason, Eric Klein, Ronald M. Bukowski, and James H. Finke.
- 1388 **Characterization of Polyclonal and Monoclonal Anti-Taxol Antibodies and Measurement of Taxol in Serum.** Jyh-Gang Leu, Bi-Xing Chen, Peter B. Schiff, and Bernard F. Erlanger.
- 1392 **Disseminated Growth of a Human Multiple Myeloma Cell Line in Mice with Severe Combined Immunodeficiency Disease.** Yi-Wu Huang, James A. Richardson, Alex W. Tong, Bing-Qing Zhang, Marvin J. Stone, and Ellen S. Vitetta.

Molecular Biology and Genetics

- 1397 **Tissue Inhibitor of Metalloproteinase 1 Is a Negative Regulator of the Metastatic Ability of a Human Gastric Cancer Cell Line, KKLS, in the Chick Embryo.** Yuri Tsuchiya, Hiroshi Sato, Yoshio Endo, Yasunori Okada, Masayosi Mai, Takuma Sasaki, and Motoharu Seiki.
- 1403 **High-Level Expression of the Ribosomal Protein L19 in Human Breast Tumors That Overexpress *erbB-2*.** John L. Henry, David L. Coggin, and C. Richter King.

Tumor Biology

- 1409 **Identification and Characterization of a Novel Matrix-degrading Protease from Hormone-dependent Human Breast Cancer Cells.** Yuenian E. Shi, Jeff Torri, Lynn Yieh, Anton Wellstein, Marc E. Lippman, and Robert B. Dickson.
- 1416 **Chemotaxis and Chemokinesis of Human Prostate Tumor Cell Lines in Response to Human Prostate Stromal Cell Secretory Proteins Containing a Nerve Growth Factor-like Protein.** Daniel Djakiew, Beth R. Pflug, Robert Delsite, Makoto Onoda, John H. Lynch, Gloria Arand, and Erik W. Thompson.
- 1421 **Expression of Thrombospondin (TSP1) and Its Receptors (CD36 and CD51) in Normal, Hyperplastic, and Neoplastic Human Breast.** Philippe Clezardin, Lucien Frappart, Magali Clerget, Christine Pechoux, and Pierre D. Delmas.
- 1431 **Radiation Damage Repair Capacity of Primary Clonogenic Blasts in Acute Lymphoblastic Leukemia.** Fatih M. Uckun, Mridula Chandan-Langlie, Waclaw Jaszcz, Vedat Obuz, Kevin Waddick, and Chang W. Song.
- 1437 **Mucin Synthesis and Secretion in Various Human Epithelial Cancer Cell Lines That Express the MUC-1 Mucin Gene.** Rajvir Dahiya, Kyu-Shik Kwak, James C. Byrd, Samuel Ho, Wan-Hee Yoon, and Young S. Kim.
- 1444 **β -Fibroblast Growth Factor Expression in Human and Murine Squamous Cell Carcinomas and Its Relationship to Regional Endothelial Cell Proliferation.** S. Schultz-Hector and S. Haghayegh.
- 1450 **Biochemical and Functional Characterization of Aminopeptidase N Expressed by Human Melanoma Cells.** Andreas Menrad, David Speicher, Jutta Wacker, and Meenhard Herlyn.
- 1456 **Expression of BCL-2 Protein Enhances the Survival of Mouse Fibrosarcoma Cells in Tumor Necrosis Factor-mediated Cytotoxicity.** Thierry Hennes, Giuseppe Bertoni, Christoph Richter, and Ernst Peterhans.
- 1461 **Human Cytotoxic T-Cell Lines with Restricted Specificity for Squamous Cell Carcinoma of the Head and Neck.** Satoshi Yasumura, Hideki Hirabayashi, Donald R. Schwartz, John F. Toso, Jonas T. Johnson, Ronald B. Herberman, and Theresa L. Whiteside.

Letter to the Editor

- 1469 **Correspondence re: S. E. Benner *et al.*, Chemoprevention Strategies for Lung and Upper Aerodigestive Tract Cancer. *Cancer Res.*, 52 (Suppl.): 2758s-2763s, 1992. Harinder Garewal.**

1470 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 Death
Calendar of Events

1472 Errata

M. N. Saarloos *et al.*, 52: 6452–6462, 1992.
A. Saxena *et al.*, 52: 6716–6721, 1992.

1473 Author Index

**AACR forms available in the back
of this issue:**

**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 (6)

Cancer Res 1993;53:1213-1472.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/53/6.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/53/6.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.