



CONTENTS

Advances in Brief

- 2457 Human B-Cell Immune Response to the Polymorphic Epithelial Mucin.** Aurelia Rughetti, Valeria Turchi, Cinzia Apollonj Ghetti, Giovanni Scambia, Pierluigi Benedetti Panici, Gabrio Roncucci, Salvatore Mancuso, Luigi Frati, and Marianna Nuti.
- 2460 Elevated Expression of the Human Mitochondrial Hinge Protein Gene in Cancer.** Alvin Y. Liu and Ragen C. Bradner.
- 2466 Effect of Angiotensin II Induced Hypertension on Tumor Blood Flow and Interstitial Fluid Pressure.** Robert A. Zlotecki, Yves Boucher, Intae Lee, Laurence T. Baxter, and Rakesh K. Jain.
- 2469 Specific Tyrosinases Associated with Melanoma Replicative Senescence and Melanogenesis.** Mary Strasberg Rieber and Manuel Rieber.
- 2472 Detection of *ras* Gene Mutations in Pancreatic Juice and Peripheral Blood of Patients with Pancreatic Adenocarcinoma.** Minoru Tada, Masao Omata, Shigenobu Kawai, Hiromitsu Saisho, Masao Ohto, Randall K. Saiki, and John J. Sninsky.
- 2475 Characterization of Insulin-like Growth Factor 1 in Human Primary Brain Tumors.** Ann-Christin Sandberg-Nordqvist, Pär-Axel Ståhlbom, Manfred Reinecke, V. Peter Collins, Hans von Holst, and Vicki Sara.
- 2479 Expression of the Biochemical Defect of Methionine Dependence in Fresh Patient Tumors in Primary Histoculture.** Hui-Yan Guo, Hector Herrera, Ami Groce, and Robert M. Hoffman.

Regular Articles

Biochemistry and Biophysics

- 2484 Involvement of Protein Kinase C in the Regulation of Glycolipid Sulfotransferase Activity Levels in Renal Cell Carcinoma Cells.** Takahiko Kobayashi, Koichi Honke, Shinsei Gasa, Makoto Sugiura, Tamotsu Miyazaki, Ineo Ishizuka, and Akira Makita.
- 2490 Cyclophosphamide Modulates Rat Hepatic Cytochrome P450 2C11 and Steroid 5 α -Reductase Activity and Messenger RNA Levels through the Combined Action of Acrolein and Phosphoramidate Mustard.** Thomas K. H. Chang and David J. Waxman.

Carcinogenesis

- 2498 Transplacental Induction of Pancreas Tumors in Hamsters by Ethanol and the Tobacco-specific Nitrosamine 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone.** Hildegard M. Schüller, Rossanna Jorquera, Arthur Reichert, and Andre Castonguay.
- 2502 Chemopreventive Effect of Oltipraz during Different Stages of Experimental Colon Carcinogenesis Induced by Azoxy methane in Male F344 Rats.** Chinthalapally V. Rao, Abraham Rivenson, Manish Katiwalla, Gary J. Kelloff, and Bandaru S. Reddy.

- 2507 Nonpromoting 12-Deoxyphorbol 13-Esters Inhibit Phorbol 12-Myristate 13-Acetate Induced Tumor Promotion in CD-1 Mouse Skin.** Zoltan Szallasi, Ljubica Krsmanovic, and Peter M. Blumberg.

Clinical Investigations

- 2513 High Levels of Urokinase-type Plasminogen Activator and Its Inhibitor PAI-1 in Cytosolic Extracts of Breast Carcinomas Are Associated with Poor Prognosis.** Jan Grøndahl-Hansen, Ib Jarle Christensen, Christian Rosenquist, Nils Brünner, Henning T. Mouridsen, Keld Danø, and Mogens Blichert-Toft.

Endocrinology

- 2522 Effects of Insulin-like Growth Factor Receptor Inhibition on Human Melanomas in Culture and in Athymic Mice.** Richard W. Furlanetto, Shari E. Harwell, and Raymond B. Baggs.
- 2527 Inhibition of Epidermal Growth Factor-like Growth Factor Secretion in Tracheobronchial Epithelial Cells by Vitamin A.** Lisa A. Miller, Ling Zhong Cheng, and Reen Wu.
- 2534 Antitumor Effect of 22-Oxa-calcitriol, a Noncalcemic Analogue of Calcitriol, in Athymic Mice Implanted with Human Breast Carcinoma and Its Synergism with Tamoxifen.** Junko Abe-Hashimoto, Tomoko Kikuchi, Toshio Matsumoto, Yasuho Nishii, Etsuro Ogata, and Kyoji Ikeda.

Experimental Therapeutics

- 2538 Molecular Cloning and Characterization of the Complementary DNA for the M_r 85,000 Protein Overexpressed in Adriamycin-resistant Human Tumor Cells.** Yoshikazu Sugimoto, Hirofumi Hamada, Satomi Tsukahara, Kohji Noguchi, Kazuo Yamaguchi, Moriyuki Sato, and Takashi Tsuruo.
- 2544 Thaliblastine, a Plant Alkaloid, Circumvents Multidrug Resistance by Direct Binding to P-Glycoprotein.** Guan Chen, Cheppail Ramachandran, and Awtar Krishan.
- 2548 Effect of Photodynamic Therapy on the Endothelium-dependent Relaxation of Isolated Rat Aortas.** Miriam J. Gilissen, L. Elly A. van de Merbel-de Wit, Willem M. Star, Johan F. Koster, and Wim Sluiter.
- 2553 Inhibition of Urokinase by 4-substituted Benzo[*b*]thiophene-2-carboxamides: An Important New Class of Selective Synthetic Urokinase Inhibitor.** Murray J. Towle, Arthur Lee, Emmanuel C. Maduakor, C. Eric Schwartz, Alexander J. Bridges, and Bruce A. Littlefield.
- 2560 Monoclonal Antibody Homodimers: Enhanced Antitumor Activity in Nude Mice.** Edith A. Wolff, George J. Schreiber, Wesley L. Cosand, and Howard V. Raff.
- 2566 Inhibitory Effect of Angiogenesis Inhibitor TNP-470 on Tumor Growth and Metastasis of Human Cell Lines *in Vitro* and *in Vivo*.** Toru Yanase, Masaki Tamura, Kazuyuki Fujita, Shoji Kodama, and Kenichi Tanaka.

- 2571 Phototoxicity, Redox Behavior, and Pharmacokinetics of Benzophenoxazine Analogues in EMT-6 Murine Sarcoma Cells.** Louis Cincotta, James W. Foley, and Anthony H. Cincotta.
- 2581 Preclinical Antitumor Evaluation of Bis-acetato-ammine-dichloro-cyclohexylamine Platinum(IV): An Orally Active Platinum Drug.** Lloyd R. Kelland, George Abel, Mark J. McKeage, Mervyn Jones, Phyllis M. Goddard, Melanie Valenti, Barry A. Murrer, and Kenneth R. Harrap.
- 2587 Pharmacokinetics of Piroxantrone in a Phase I Trial of Piroxantrone and Granulocyte-Colony Stimulating Factor.** Stacey L. Berg, Diane M. F. Savarese, Frank M. Balis, Andrea M. Denicoff, Marianne Hillig, Joyce A. O'Shaughnessy, David G. Poplack, and Kenneth H. Cowan.

Immunology

- 2591 Overcoming Tumor Necrosis Factor and Drug Resistance of Human Tumor Cell Lines by Combination Treatment with Anti-Fas Antibody and Drugs or Toxins.** Hideki Morimoto, Shin Yonehara, and Benjamin Bonavida.
- 2597 Human Interleukin 2 Analogues That Preferentially Bind the Intermediate-Affinity Interleukin 2 Receptor Lead to Reduced Secondary Cytokine Secretion: Implications for the Use of These Interleukin 2 Analogues in Cancer Immunotherapy.** Keith M. Heaton, Grace Ju, and Elizabeth A. Grimm.
- 2603 Cytokine Regulation of Human Monocyte Differentiation *in Vitro*: The Tumor-Cytotoxic Phenotype Induced by Macrophage Colony-stimulating Factor Is Developmentally Regulated by γ -Interferon.** David H. Munn and Elissa Armstrong.

Molecular Biology and Genetics

- 2614 Base Transitions Are the Most Frequent Genetic Changes at P53 in Gastric Cancer.** Beatrice Renault, Marianne van den Broek, Riccardo Fodde, Juul Wijnen, Natalia S. Pellegata, Dino Amadori, P. Meera Khan, and Guglielmina N. Ranzani.
- 2618 Transformation of NIH/3T3 Cells by Ornithine Decarboxylase Overexpression.** Jeffrey A. Moshier, Julie Dosesco, Magdalena Skunca, and Gordon D. Luk.

- 2623 Sensitization of Tumor Cells to Tumor Necrosis Factor Action by the Protein Kinase Inhibitor Staurosporine.** Rudi Beyaert, Bart Vanhaesebroeck, Karen Heyninck, Elke Boone, Dirk De Valck, Klaus Schulze-Osthoff, Guy Haegeman, Frans Van Roy, and Walter Fiers.

Tumor Biology

- 2631 Pathogenesis of Malignant Ascites Formation: Initiating Events That Lead to Fluid Accumulation.** Janice A. Nagy, Kemp T. Herzberg, Jane M. Dvorak, and Harold F. Dvorak.
- 2644 Culture of Normal and Malignant Primary Human Mammary Epithelial Cells in a Physiological Manner Simulates *in Vivo* Growth Patterns and Allows Discrimination of Cell Type.** Lynn M. Bergstraesser and Sigmund A. Weitzman.
- 2655 Elevated High Mobility Group-I(Y) Gene Expression Is Associated with Progressive Transformation of Mouse Mammary Epithelial Cells.** Tracy G. Ram, Raymond Reeves, and Howard L. Hosick.
- 2661 Laminin Regulates a Tumor Cell Chemotaxis Receptor through the Laminin-binding Integrin Subunit α_4 .** Christine H. Blood and Bruce R. Zetter.
- 2667 Galaptin-mediated Adhesion of Human Ovarian Carcinoma A121 Cells and Detection of Cellular Galaptin-binding Glycoproteins.** David M. Skrincosky, Howard J. Allen, and Ralph J. Bernacki.
- 2676 Nitric Oxide Mediates Kupffer Cell-induced Reduction of Mitochondrial Energization in Hepatoma Cells: A Comparison with Oxidative Burst.** Iwao Kurose, Soichiro Miura, Dai Fukumura, Yoshikazu Yonei, Hidetsugu Saito, Shinichiro Tada, Makoto Suematsu, and Masaharu Tsuchiya.

Meeting Reports

- 2683 Second International Symposium on Cytostatic Drug Resistance.** Manfred Dietel.
- 2689 International Symposium on Polyamines in Cancer—Critical Role of Polyamines in Cancer: Basic Mechanisms and Clinical Approaches.** Kenji Nishioka.

2693 Announcements

New Schedule for Annual Meetings of the AACR Beginning in 1994
AACR Special Conferences in Cancer Research
Recent Death
Calendar of Events

2696 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:

Guidelines for Submitting Disks to AACR Publications

Cancer Research

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

53 (11)

Cancer Res 1993;53:2457-2695.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/53/11.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/53/11.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.