Asterisks * preceding page numbers refer to studies using human-derived material.

Perspectives in Cancer Research

Tumor Cell Instability, Diversification, and Progression to the Metastatic Phenotype: From Oncogene to Oncofetal Expression. Garth L. Nicolson.


BASIC SCIENCES


Cytoxicity of Compounds That Interfere with the Regulation of Intracellular pH: A Potential New Class of Anticancer Drugs. Daniela Rotin, Peter Wan, Sergio Grinstein, and Ian Tannock.


Rat Hepatocyte-mediated Bacterial Mutagenicity in Relation to the Carcinogenic Potency of Benzo(a)anthracene, Benzo(a)pyrene, and Twenty-five Methylated Derivatives. Dietmar l'leseli, Hansruedi Glatt, and Franz Oesch.

Antitumor Activity of a Novel Antitumor Antibiotic, Quinocar-mycin Citrate (KW2152). Kazuhisa Fujimoto, Tetsuo Oka, and Makoto Morimoto.

Secretion of Type IV Collagenolytic Protease and Metastatic Phenotype: Induction by Transfection with c-Ha-ras but not c-Ha-ras plus Ad2-E1a. Spiridione Garbisa, Rudy Pozzatti, Ruth J. Muschel, Umberto Saffiotti, Marina Ballin, Ronald H. Goldfarb, George Khoury, and Lance A. Liotta.


Lack of Effect of Thermotolerance on Radiation Response and Thermal Radiosensitization of Murine Bone Marrow Progenitors. Nahid F. Mivechi and Gloria C. Li.


Cross-Sensitivity to Topoisomerase II Inhibitors in Cytotoxic Drug-hypersensitive Chinese Hamster Ovary Cell Lines. Craig N. Robson, Paul R. Hoban, Adrian L. Harris, and Ian D. Hickson.


Molecular Dosimetry of O^s-Ethyldeoxythymidine in Rats Continuously Exposed to Diethylnitrosamine. Joyce A. Boucheron, Frank C. Richardson, Paul H. Morgan, and James A. Swenberg.


Proteases Occurring in the Cell Membrane: A Possible Cell Receptor for the Bowman-Birk Type of Protease Inhibitors. Jonathan Yavelow, Michele Caggana, and Kenneth A. Beck.

Fluorescent Visualization of Binding and Internalization of the Anticarcinogenic Bowman-Birk Type Protease Inhibitors in Transformed Fibroblasts. Jonathan Yavelow, Claude B. Scott, and Thomas C. Mayer.


Comparison of 1,2-Dihydropyrido[3,4-b]pyrazines (1-Deaza-7,8-dihydropteridines) with Several Other Inhibitors of Mitosis. Bonnie J. Bowdon, William R. Waud, Glynn P. Wheeler, Romaine Hain, Linda Dansby, and Carroll Temple, Jr.

Penetration and Binding of Radiolabeled Anti-Carcinoembryonic Antigen Monoclonal Antibodies and Their Antigen Binding Fragments in Human Colon Multicellular Tumor Spheroids. R. Sutherland, F. Buchegger, M. Schreyer, A. Vacca, and J-P. Mach.


† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.
Naturally Occurring Clones of Cells with High Intrinsic Proliferation Potential within the Follicular Epithelium of Mouse Thyroids. Staffan Smeds, Hans J. Peter, Erik Jörtösö, Hans Gerber, and Hugo Studer.


Tannic Acid-induced Nucleolar Changes in Hepatocytes Transplanted into Syngeneic or Xenogeneic Host and in Hepatocytes Maintained in Primary Culture. M. Sambasiva Rao, Mario M. Mangino, Mohammed I. Usman, V. Subbarao, Dante G. Scarpelli, M. Kumudavalli Reddy, and Janardan K. Reddy.

Increased Invasion and Spontaneous Metastasis of BL6 Melanoma with Inhibition of the Desmoplastic Response in C57 BL/6 Mice. Sanford H. Barsky and Rayudu Gopalakrishna.

Differentiation Therapy of a Myelomonocytic Leukemia (c-WRT-7) in Rats by Injection of Lipopolysaccharide and Daunomycin. Yoshihiro Fujii, Naoya Yuki, Noritoshi Takeichi, Hiroshi Kobayashi, and Tamotsu Miyazaki.


Generation of Superoxide (O$_2^-$) from Alveolar Macrophages Exposed to Asbestiform and Nonfibrous Particles. Karen Hansen and Brooke T. Mossman.


Pharmacokinetics of 32P-Tx(Sn) and 131I-labeled Anti-Carcinoembryonic Antigen Monoclonal Antibody Fragments in Nude Mice. A. Michael Zimmer, Joanne M. Kazikiewicz, Steven T. Rosen, and Stewart M. Spies.


NOTE: Advance registration form for 78th Annual Meeting of the American Association for Cancer Research available in the back of this issue.
Cancer Research
VOLUME 47 • NUMBER 6

CONTENTS Arranged by Subject Category

Perspectives in Cancer Research

1473 Tumor Cell Instability, Diversification, and Progression to the Metastatic Phenotype: From Oncogene to Oncofetal Expression. Garth L. Nicolson.


BASIC SCIENCES

Biochemistry and Biophysics

1509 Rat Hepatocyte-mediated Bacterial Mutagenicity in Relation to the Carcinogenic Potency of Benz(a)anthracene, Benzol(a)pyrene, and Twenty-five Methylated Derivatives. Dietmar Utesch, Hansruedi Glatt, and Franz Oesch.


Carcinogenesis


1577 Molecular Dosimetry of O2-Ethyleneoxyethyldimide in Rats Continuously Exposed to Diethylnitosamine. Joyce A. Boucheron, Frank C. Richardson, Paul H. Morgan, and James A. Swenberg.


1598 Proteases Occurring in the Cell Membrane: A Possible Cell Receptor for the Bowman-Birk Type of Protease Inhibitors. Jonathan Yavelow, Michele Caggana, and Kenneth A. Beck.

1602 Fluorescent Visualization of Binding and Internalization of the Anticarcinogenic Bowman-Birk Type Protease Inhibitors in Transformed Fibroblasts. Jonathan Yavelow, Claude B. Scott, and Thomas C. Mayer.


Molecular Biology and Genetics

1523 Secretion of Type IV Collagenolytic Protease and Metastatic Phenotype: Induction by Transfection with c-Ha-ras but not c-Ha-ras plus Ad2-Ela. Spiridione Garbisa, Rudy Pozzati, Ruth J. Mischel, Umberto Saffiotti, Marina Ballin, Ronald H. Goldfarb, George Khoury, and Lance A. Liotta.

Preclinical Pharmacology and Experimental Therapeutics


1516 Antitumor Activity of a Novel Antitumor Antibiotic, Quinocarcinycin Citrate (KW2152). Kachisuka Fujimoto, Tetsuo Oka, and Makoto Morimoto.


1560 Cross-Sensitivity to Topoisomerase II Inhibitors in Cytotoxic Drug-hypersensitive Chinese Hamster Ovary Cell Lines. Craig N. Robson, Paul R. Hoban, Adrian L. Harris, and Ian D. Hickson.


Endocrinology


* Indicates studies using human-derived material.
Comparison of 1,2-Dihydropyrido[3,4-b]pyrazines (1-Deaza-7,8-dihydropteridines) with Several Other Inhibitors of Mitosis. Bonnie J. Bowdon, William R. Waud, Glynn P. Wheeler, Romaine Hain, Linda Dansby, and Carroll Temple, Jr.


Tumor Biology


Cytotoxicity of Compounds That Interfere with the Regulation of Intracellular pH: A Potential New Class of Anticancer Drugs. Daniela Rotin, Peter Wan, Sergio Grinstein, and Ian Tannock.

Lack of Effect of Thermotolerance on Radiation Response and Thermal Radiosensitization of Murine Bone Marrow Progenitors. Nahid F. Mivechi and Gloria C. Li.


Tannic Acid-induced Nucleolar Changes in Hepatocytes Transplanted into Syngeneic or Xenogeneic Host and in Hepatocytes Maintained in Primary Culture. M. Sambasiva Rao, Mario M. Mangino, Mohammed I. Usman, V. Subbarao, Dante G. ScarPELLI, M. Kumudavalli Reddy, and Janardan K. Reddy.

Increased Invasion and Spontaneous Metastasis of BL6 Melanoma with Inhibition of the Desmoplastic Response in C57 BL/6 Mice. Sanford H. Barsky and Rayudu Gopalakrishna.

Diff erentiation Therapy of a Myelomonocytic Leukemia (c-WRT-7) in Rats by Injection of Lipopolysaccharide and Daunomycin. Yoshihiro Fujii, Naoya Yuki, Noritoshi Takechi, Hiroshi Kobayashi, and Tamotsu Miyazaki.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS


Epidemiological

Epidemiology of Cervical Cancer by Cell Type. Louise A. Brinton, Karen T. Tashima, Herman F. Lehman, Robert S. Levine, Katherine Mallin, David A. Savitz, Paul D. Stolley, and Joseph F. Fraumeni, Jr.

Announcements

Erratum


Author Index

NOTE: Advance registration form for 78th Annual Meeting of the American Association for Cancer Research available in the back of this issue.