**Contents**

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

Special Lecture

1 Protein Kinase C as the Receptor for the Phorbol Ester Tumor Promoters: Sixth Rhoads Memorial Award Lecture. Peter M. Blumberg.

**Basic Sciences**

9 Accumulation of cis-Diamminedichloroplatinum(II) and Platinum Analogues by Platinum-resistant Murine Leukemia Cells in Vitro. Alan J. Kraker and Charles W. Moore.

14 Interactions of Putative Estrogens with the Intracellular Receptor Complex in Mouse Leydig Cells: Relationship to Prenoplastic Hyperplasia. R. Lloyd Juriang, Robert A. Huseby, and R. Bruce Wilcox.

19 Effect of D.L-Buthionine-S,R-sulfoximine on Cytotoxicity and Sister Chromatid Exchange Induction by Diaziquone in Human Molecular Pathways of Adhesion in Spontaneous Resetting of I alteration in Tyrosine Phosphorylation during the Granulocytic Augmentation of Activity of cis-Diamminedichloroplatinum(II)

Km-Diamminedichloroplatinum(II) Accumulation in Sensitive and Nilsson.

27 Sister Chromatid Exchange Induction by Diziquone in Human and Mouse Lymphocytes following Both in Vitro and in Vitro Exposures. Andrew D. Kligerman, Oregon L. Erexson, and Bijoy K. Bhuyan.


52 Alterations in Tyrosine Phosphorylation during the Granulocytic Maturation of HL-60 Leukemia Cells. David A. Frank and Alan C. Sartorelli.


74 Modulation of Tissue and Epidermal Transglutaminases in Mouse Epidermal Cells after Treatment with 12-O-Tetradecanoylphorbol-13-acetate and/or Retinoic Acid in Vitro and in Culture. Ulrike Lichti and Stuart H. Yospa.


89 31P-Nuclear Magnetic Resonance Spectroscopy Studies of the Response of Rat Mammary Tumors to Endocrine Therapy. Loreta M. Rodrigues, Caroline J. Midwood, R. Charles Coombers, Anthony N. Stevens, Marion Stubbs, and John R. Griffiths.


130 Alterations in Murine Host Defense Functions by Adriamycin or Liposome-encapsulated Adriamycins. Kenneth Mace, Eric Mayhew, Enrico Mihich, and M. Jane Ehrke.


† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.

Induction of S 100 Protein by 5-Bromo-2'-deoxyuridine in Human Neuroblastoma Cell Lines. Kentaro Tsunamoto, Shinjiro Todo, Shinsaku Imashuku, and Kanefusa Kato.

Chromosome Abnormalities in Pediatric Brain Tumors. Constance A. Griffin, Anita L. Hawkins, Roger J. Packer, Lucy B. Rorke, and Beverly S. Emanuel.


Correlation of Vascular Permeability and Blood Flow with Monoclonal Antibody Uptake by Human Clonex and Renal Cell Xenografts. Howard Sands, Peter L. Jones, Sudhir A. Shah, Donald Palme, Robert L. Vessella, and Brian M. Gallagher.


Analysis of the Chromosomal DNA Replication Pattern Using the Bromodeoxyuridine Labeling Method. Toshiaki Karube and Shaw Watanabe.

NOTE: Advance registration form for 79th Annual Meeting of the American Association for Cancer Research available in the back of this issue.
Contents Arranged by Subject Category

BASIC SCIENCES

Biochemistry and Biophysics

Alterations in Tyrosine Phosphorylation during the Granulocytic Maturation of HL-60 Leukemia Cells. David A. Frank and Alan C. Sartorelli.

Biochemistry and Biophysics

Alterations in Tyrosine Phosphorylation during the Granulocytic Maturation of HL-60 Leukemia Cells. David A. Frank and Alan C. Sartorelli.

Biochemistry and Biophysics

Modulation of Tissue and Epidermal Transglutaminases in Mouse Epidermal Cells after Treatment with 12-O-Tetradecanoylphorbol-13-acetate and/or Retinoic Acid in vitro and in Culture. Ulrike Lichti and Stuart H. Yusspa.

Biochemistry and Biophysics


Carcinogenesis

Interactions of Putative Estrogens with the Intracellular Receptor Complex in Mouse Leydig Cells: Relationship to Preneoplastic Hyperplasia. R. Lloyd Juriansz, Robert A. Huseby, and R. Bruce Wilcox.

Carcinogenesis


Molecular Biology and Genetics


Molecular Biology and Genetics


Preclinical Pharmacology and Experimental Therapeutics


Preclinical Pharmacology and Experimental Therapeutics


Preclinical Pharmacology and Experimental Therapeutics


Preclinical Pharmacology and Experimental Therapeutics

Sister Chromatid Exchange Induction by Diaziquone in Human and Mouse Lymphocytes following Both in vivo and in vitro Exposures. Andrew D. Kligerman, Gregory L. Erexson, and Miriam F. Bryant.

Preclinical Pharmacology and Experimental Therapeutics


Preclinical Pharmacology and Experimental Therapeutics


Preclinical Pharmacology and Experimental Therapeutics

Combination of N,N',N"-Triethylthiophosphoramide and Cylophephamide in vitro and in vivo. Beverly A. Teicher, Sylvia A. Holden, Carol A. Cucchi, Kathleen N. S. Catheart, Timothy T. Korb, Jennifer L. Flato, and Emil Frei III.


*Tumor Biology


NOTE: Advance registration form for 79th Annual Meeting of the American Association for Cancer Research available in the back of this issue.

170 Induction of S 100 Protein by 5-Bromo-2′-deoxyuridine in Human Neuroblastoma Cell Lines. Kentaro Tsunamoto, Shinjiro Todo, Shinshaku Imashuku, and Kanefusa Kato.

188 Correlation of Vascular Permeability and Blood Flow with Monoclonal Antibody Uptake by Human Closer and Renal Cell Xenografts. Howard Sands, Peter L. Jones, Sudhir A. Shah, Donald Palme, Robert L. Vessella, and Brian M. Gallagher.

**CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS


219 Analysis of the Chromosomal DNA Replication Pattern Using the Bromodeoxyuridine Labeling Method. Toshiaki Karube and Shaw Watanabe.

Meeting Report


226 Announcements

227 Instructions for Authors

233 Author Index