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 Rhodes Memorial Award Lecture. Peter M. Blumberg

BASIC SCIENCES

9 Accumulation of cis-Diaminedichloroplatinum(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 Prenoeplastic Hyperplasia. R. Lloyd Juriansz, Robert A. Huseby, and R. Bruce Wilcox

19 Effect of D.L-Buthionine-S,R-sulfoximine on Cytotoxicity and DNA Cross-Linking Induced by Bifunctional DNA-reactive Cytostatic Drugs in Human Melanoma Cells. Johan Hansson, Margareta Edgren, Hans Ehrsson, Ulrik Ringborg, and Bo Nilsson

27 Sister Chromatid Exchange Induction by Diaziquone in Human and Mouse Lymphocytes following Both in Vivo and in Vitro Exposures. Andrew D. Kligerman, Oregon L. Erexson, and Miriam F. Bryant


41 Enhancement of in Vivo and in Vitro Murine Immune Responses by the Cyclophosphamide Metabolite Acrolein. Thomas T. Kawabata and Kimberly L. White, Jr

46 Genetic Assessment of the Strength of a Cancer Suppressor Gene in Hamster Cells. Sara S. Tolsma, Eddy Thomas, Kenneth D. Bauer, and Noel Bouck

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

59 Glucocorticoid Effects on Lipid Lateral Diffusion and Membrane Composition in Lipopolysaccharide-activated B-Cell Leukemia 1 Cells. Kathleen M. Keating, Kenneth D. Bauer, and Noel Bouck

64 Augmentation of Activity of cis-Diaminedichloroplatinum(II) and Mitomycin C by Interferon in Human Malignant Mesothelioma Xenografts in Nude Mice. Nancy T. Sklarin, A. Philippe Ten Have-Opbroek, Lucy M. Anderson, Gurmukh Singh, and Deborah A. Roess


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

82 Effect of Endogenous and Exogenous Interferons on the Differentiation of Human Monocyte Cell Line U937. Ugo Testa, Didier Ferbus, Marco Gabbianelli, Brunella Pascucci, Giovanni Boccoli, Fawzia Louache, and Ming Nguy Thang

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 Coomber, Anthony N. Stevens, Marion Stubbs, and John R. Griffiths

94 Combination of N,N,N‘,N’-Triethylenethiophosphoramide and Cyclophosphamide in Vitro and in Vivo. Beverly A. Teicher, Sylvia A. Holden, Carol A. Cucchi, Kathleen N. S. Cathcart, Timothy T. Korbut, Jennifer L. Flatow, and Emil Frei III

101 Effect of Continuous Administration of Interleukin 2 on Active Specific Chemoinmunotherapy with Extracted Tumor-specific Transplantation Antigen and Cyclophosphamide. Kazuyo Naito, Neal R. Pellis, and Barry D. Kahan


117 In Vitro Pharmacodynamics of 1-β-D-Arabinofuranosylcytosine: Synergy of Antitumor Activity with cis-Diaminedichloroplatinum(II). David H. Kern, Carol R. Morgan, and Susanne U. Hildebrand-Zanki

122 Combined Effects of Chemotherapy and Interleukin 2 in the Therapy of Mice with Advanced Pulmonary Tumors. Moshe Z. Papa, James C. Yang, John T. Vetto, Eitan Shiloni, Avi Eisenhal, and Steven A. Rosenberg

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

137 Expression of Epidermal Growth Factor Receptor in Human Gastric and Colonic Carcinomas. Wataru Yasui, Hiromichi Sumiyoshi, Jotaro Hata, Takashi Kameda, Atsushi Ochiai, Hisao Ito, and Eiichi Tahara

142 Nonrandom Chromosome Alterations in Human Malignant Mesothelioma. N. C. Popescu, A. P. Chahinian, and J. A. DiPaolo

148 Mouse Papillary Lung Tumors Transplacently Induced by N-Nitrosoethylurea: Evidence for Alveolar Type II Cell Origin by Comparative Light Microscopic, Ultrastructural, and Immunohistochemical Studies. Sabine Rehm, Jerrod M. Ward, Ank A. W. Ten Have-Opbroek, Lucy M. Anderson, Gurmukh Singh, Sikandar L. Katyal, and Jerry M. Rice


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

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

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


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


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

Biochemistry and Biophysics

*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 Vivo and in Culture. Ulrike Lichti and Stuart H. Yuspa.

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

Carcinogenesis

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


Endocrinology


Immunology


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


Molecular Biology and Genetics


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


Preclinical Pharmacology and Experimental Therapeutics

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


*27 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.


*94 Combination of N,N',N''-Triethylenethiophosphoramido and Cyclophosphamide in Vitro and in Vivo. Beverly A. Teicher, Sylvia A. Holden, Carol A. Cucchi, Kathleen N. S. Cathcart, Timothy T. Korbut, Jennifer L. Flutow, and Emil Frei III.

* Indicates studies using human-derived material.


Tumor Biology


*170 Induction of S 100 Protein by 5-Bromo-2′-deoxyuridine in Human Neuroblastoma Cell Lines. Kentaro Tsunamoto, Shinjiro Todo, Shinsaku 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.

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