Contents

Asterisks * preceding page numbers refer to clinical studies.

4767 Heterogeneity in Growth Inhibition by \( \beta\)-trans-Retinoic Acid of Metastatic B16 Melanoma Clones and in Vivo-selected Cell Variant Lines. Reuben Lotan and Garth L. Nicolson.

4772 Cellular Cytotoxicity and Serum Inhibition in Normal Mice following Transfer of Xenogeneic Tumor-sensitized Cells. Bernard Fisher, Norman Wolmark, and Elizabeth A. Saffer.

4777 Pharmacokinetic Studies during Phase I Trials of High-Dose Thymidine Infusions. Daniel S. Zaharko, Bruce J. Bolten, Delia Chiuten, and Peter H. Wiernik.


4802 Inhibition of DNA Synthesis in Cultured Lymphocytes and Tumor Cells by Extracts of Betel Nut, Tobacco, and Miang Leaf, Plant Substances Associated with Cancer of the Ororespiratory Epithelium. Jean A. Yang, Sally A. Huber, and Zoltan J. Lucas.


4816 Comparative Biological and Biochemical Effects of Nogalamycin and Its Analogs on L1210 Leukemia. Li H. Li, Sandra L. Kuentzel, Lana L. Murch, Loraine M. Pachigoda, and William C. Krueger.


4829 Development and Fate of Focal Epithelial Lesions in Tracheal Mucosa following Exposure to 7,12-Dimethylbenz(a)anthracene. Douglas C. Topping, Richard A. Griesemer, and Paul Nettlesheim.

4838 Comparative Antitumor Effects of Corynebacterium parvum, Bordetella pertussis, Bacillus Calmette-Guérin, and Levamisole Alone or in Combination with Cyclophosphamide in the CaD2 Murine Mammary Adenocarcinoma System. Dallas M. Purnell, Gerald L. Bartlett, John W. Kreider, Timothy G. Biro, and Joseph Kontra.

4843 Renal Tubular Transport of Methotrexate in the Rhesus Monkey and Dog. Kee C. Huang, Barbara A. Wenczak, and Yong K. Liu.


4856 Effect of Thymidine on the Survival of Mice with EL4 Tumors. Harvard Reiter.

4861 Relationship between Inhibition of Polyamine Biosynthesis and DNA Replication in Activated Lymphocytes. Christine E. Seyfried and David R. Morris.

4868 Inhibition of Synthesis of Pyrimidine Nucleotides by 2-Hydroxy-3-(3,3-dichloroallyl)-1,4-naphthoquinone. L. Lee Bennett, Jr., Donald Smithers, Lucy M. Rose, Doris J. Adamson, and H. Jeanette Thomas.


4894 Histaminase and Other Tumor Markers in Malignant Effusion Fluids. Chi-Wei Lin, Norma R. Inglis, Allyn H. Rule, R. Nuran Turksoy, Clifford M. Chapman, Sandra D. Kirley, and Leo L. Stolbach.

4900 Lactate Metabolism in Patients with Metastatic Colorectal Cancer. Christopher P. Holroyde, Rita S. Axelrod, Charles L. Skutches, Agnes C. Haff, Pavle Paul, and George A. Reichard.


4914 Cell Lines from Human Colon Carcinoma with Unusual Cell Products, Double Minutes, and Homogeneously Staining Regions. Laurie A. Quinn, George E. Moore, Robert T. Morgan, and Linda K. Woods.

4925 Biochemical Basis for Cytotoxicity of 7,12-Dimethylbenz(a)anthracene in Rat Liver Epithelial Cells. P. T. lype, J. E. Tomaszewski, and A. Dipple.


4956 Promotion of Azoxymethane-induced Intestinal Cancer by High-Fat Diet in Rats. Homer S. Black, Barbara K. Soullier, Paulette S. Wilson, Molly Tan Hayden, and Norman D. Nigro.


4965 Effect of Age at Treatment on Incidence and Type of Renal Neoplasms Induced in the Rat by a Single Dose of Dimethylnitrosamine. Gordon C. Hard.


4975 Effects of Caffeine on Purine Metabolism and Ultraviolet Light-induced Lethality in Cultured Mammalian Cells. Charles A. Waldren and David Patterson.

4983 Suppression of Proliferative Response and Lymphokine Production during the Progression of a Spontaneous Tumor. L. Varesio, M. Giovarelli, S. Landolfo, and G. Forni.


5028 Effects of Hormones on Growth and a-Lactalbumin Activity in the Transplantable Rat Mammary Tumor MCCLX. Toby M. Horn and Tamiko Kano-Sueoka.

5036 Serum Sialic Acid and Sialyltransferase as Monitors of Tumor Burden in Malignant Melanoma Patients. Hulbert K. B. Silver, Karim A. Karim, Elizabeth L. Archibald, and Fernando A. Salinas.

5043 Antiestrogen Modulation of the Growth and Properties of Ovarian-Autonomous and Ovarian-Dependent Mammary Tumors in Rats. Ten-Lin Sie Tsai, Susan Rutledge, and Benita S. Katzenellenbogen.


5106 Sequence Homology of Nucleic Acids from Human Breast Cancer Cells and Complementary DNA's from Murine Mammary Tumor Virus and Mason-Pfizer Monkey Virus. Mukkattu Ramachandra Das and Michael M. Mink.

5114 Effect of a Bacteriocin Produced by Mycobacterium smegmatis on Growth of Cultured Tumor and Normal Cells. Hajime Saito and Takashi Watanabe.


5124 A Correlation between Estrogen Sulfotransferase Levels and Estrogen Receptor Status in Human Primary Breast Carcinoma. John B. Adams, Thanit Pewnim, David P. Chandra, Lesley Archibald, and Ming San Foo.


5132 Alteration in Binding of Dexamethasone to Glucocorticoid Receptors in Regenerating Rat Liver after Partial Hepatectomy. Fumihide Isohashi, Kazue Tsukanaka, Masako Terada, Yoko Nakanishi, Hisao Fukushima, and Yukiya Sakamoto.

5136 Correlation of DNA Methylation by Methyl(acyetoxy-methyl)nitrosamine with Organ-specific Carcinogenicity in Rats. Paul Kleihues, Gerhard Doerjer, Larry K. Keefer, Jerry M. Rice, Peter P. Roller, and Ruth M. Hodgson.


5147 Mutagenicity of N-Methyl-N’-aryl-N-nitrosoureas and N-Methyl-N’-aryl-N’-methyl-N-nitrosoureas in Relation to Their Alkylating Activity. Kazuyuki Yano and Masayoshi Isobe.


5155 Binding Characteristics of a Major Protein in Rat Ventral Prostate Cytosol That Interacts with Estramustine, a Nitrogen Mustard Derivative of 17β-Estradiol. Björn Forsgren, Jan-Åke Gustafsson, Åke Pousette, and Bertil Högborg.

5165 Formation and Removal of Aflatoxin B1-induced DNA Lesions in Epithelioid Human Lung Cells. Tzu-chien V. Wang and Peter A. Gerutti.

5171 Reactivity of Anti-Daudi Serum with Acute and Chronic Leukemias. Stephane Carrel, Nicole Gross, and Jean-Pierre Mach.

5177 Letter to the Editor: Lack of Proportionality between Rate of Cell Division and Induction of Tumors in Carcinogen-exposed Regenerating Livers. Frederick F. Becker.

5179 Announcements

5180 Acknowledgment to Reviewers

5187 Author Index to Volume 39

5217 Subject Index to Volume 39