Contents

Asterisks preceding the title refer to studies in humans.

Wilson I. B. Onuigbo.

637 The Effect of Adult Thymectomy and Adult Splenectomy on the Production of Leukemia and Stomach Neoplasms in Mice by N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide.
Samuel M. Cohen, Don B. Headley, and George T. Bryan.

641 Treatment of a Moloney Lymphoma with Cyclophosphamide and H-2-incompatible Spleen Cells.
A. Fefer.

645 Suppression of Autochthonous Grafts of Spontaneous Mammary Tumor by Induced Allogeneic Graft Rejection Mechanism.
Reiko Tokuzen and Waro Nakahara.

648 * HL-A Antigens in Solid Tumors.
Mitsuo Takasugi, Paul I. Terasaki, Brian Henderson, Max R. Mickey, Herman Menck, and Ronald W. Thompson.

651 Evidence for an Aldehyde Possessing Alkylating Activity as the Primary Metabolite of Cyclophosphamide.
N. E. Sladek.

659 Bacillus Calmette-Guérin Vaccination and Skin Tumor Promotion with Croton Oil in Mice.
M. R. Schinitsky, L. R. Hyman, A. A. Blazkovec, and P. M. Burkholder.

664 Effects of Dosage, Phenobarbital, and 2-Diethylaminoethyl-2,2-diphenylvalerate on the Binding of Cyclophosphamide and/or Its Metabolites to the DNA, RNA, and Protein of the Embryo and Liver in Pregnant Mice.
Vadiraja V. Murthy, Bernard A. Becker, and William J. Steele.

671 Studies of Neoplastic Myelomonocytic Cells in BALB/c Mice Producing Infectious C-type Viruses.
Frances T. Sanel.

679 Immunity to a TA3 Tumor Subline That Grows in Allogeneic Hosts Elicited by Strain-specific TA3 Tumor Cells.
Muriel M. Lippman, John M. Venditti, Ira Kline, and David L. Elam.

685 Studies of the Effects of Bacillus Calmette-Guérin on Moloney Sarcoma Virus-induced Tumors in Normal and Immunosuppressed Mice.

691 Response of Mammalian Cells following Treatment with Bleomycin and 1,3-Bis(2-chloroethyl)-1-nitrosourea during Plateau Phase.
S. C. Barranco, Judy K. Novak, and Ronald M. Humphrey.

695 Transformation of Rat Embryo Cells in Vitro by Chemical Carcinogens.
Johng S. Rhim and Robert J. Huebner.

701 Ultrastructural Studies of Histiocyte-Tumor Cell Interactions during Tumor Regression after Intralusal Injection of Mycobacterium bovis.
M. J. Snodgrass and M. G. Hanna, Jr.

717 Factors Influencing the Assay for Target Cells of Friend Spleen Focus-forming Virus.
Suteera Thomson and Petcharin Srivatanakul.

721 Plasma Gonadotropin Levels during Early Stages of Ovarian Tumorigenesis in Mice of the Wg/Wg Genotype.
Edwin D. Murphy and Wesley G. Beamer.

724 Characterization of Glycogen Synthetases and Phosphorylases in Transplantable Rat Hepatomas.

734 Distribution of Ribosomal Cistrons in the Nuclei of Ehrlich Asciites Tumor and Hepatic Cells from Mice.
Ken Higashi, Taeko Kuragano, Noriko Hansaki, Tadao Matsuhisa, and Yukiya Sakamoto.

739 Change in Transcription of Repetitive DNA Sequences in N-Methyl-N'-nitro-N-nitrosoguanidine-transformed Hamster Cells.
Masami Muramatsu, Nobuo Nemoto, Naomichi Inui, and Shozo Takayama.

745 Inhibition of Growth by 6-Hydroxydopamine in Cultured Cells of Neuronal and Nonneuronal Origin.
L. E. De Bauld and S. A. Millard.

750 Immunogenic Strength of Sarcomas Induced by Methylcholanthrene in Millipore Filter Diffusion Chambers.
Giorigi Parmiani, Giusi Carbone, and Rosario Lembo.

755 The Failure of Allopurinol to Enhance 6-Mercaptopurine Toxicity in Rabbits.
Enhancement of Virus-induced Leukemias and Sarcomas in F1 Hybrid Mice Inoculated with Parental Spleen Cells.
B. Varet, A. Cannat, N. Feingold, J. Wechsler, and J. P. Levy.

Effect of Preirradiation of the Tumor Bed on the Relative Vascular Space of Mouse Gastric Adenocarcinoma 328 and Mammary Adenocarcinoma CA755.
Randy Jirtle and Kelly H. Clifton.

Macromolecular Synthesis following a Single Application of Alkylating Agents Used as Initiators of Mouse Skin Tumorigenesis.
T. J. Slaga, G. T. Bowden, B. G. Shapas, and R. K. Boutwell.

Bleomycin-induced Fine Structural Alterations in Cultured Mouse Fibroblasts and Human Lymphocytes of Neoplastic Origin.
Awtar Krishan.

Microfluorometric Comparisons of Chromatin Thermal Stability in Situ between Normal and Neoplastic Cells.
Marvin R. Alvarez.

Combination Chemotherapy with Cytosine Arabinoside, L-Asparaginase, and 6-Azauridine for Transplantable Murine Leukemias.
Thomas L. Avery and DeWayne Roberts.

Factors in Human Serum Affecting the Proliferation of Normal and Leukemic Cells.
Philip J. Burke, Charles H. Diggs, and Albert H. Owens, Jr.

Quantitative Effects of Nutritional Protein and Calorie Deficiency upon Immune Responses to Tumors in Mice.
David G. Jose and Robert A. Good.

Binding of an Antitumor Platinum Compound to Cells as Influenced by Physical Factors and Pharmacologically Active Agents.
Glen R. Gale, Carl R. Morris, Loretta M. Atkins, and Alayne B. Smith.

Enhancement of Adenovirus Transformation by Pretreatment of Hamster Cells with Carcinogenic Polycyclic Hydrocarbons.
Bruce C. Casto, William J. Pieczynski, and Joseph A. DiPaolo.

In Vitro Culture of Cloned Hamster Melanoma Cells Containing R-type virus.
William L. Epstein and Kimie Fukuyama.

Correlation between Carcinogenicity and Chemical Structure in Cyclopenta[a]phenanthrenes.

* Evidence for Multiple Forms of DNA Polymerase in Hodgkin's Disease.
Jeanette R. Piperno and Roland G. Kallen.

Independence of Pituitary Tumor-mediated Suppression of Growth Hormone Secretion and Cyclic 3',5'-Adenosine Monophosphate Production.
Robert M. MacLeod and Joyce E. Lehmeyer.

Suppression of Pituitary Tumor Growth and Function by Ergot Alkaloids.
Robert M. MacLeod and Joyce E. Lehmeyer.

The Molecular Mechanism of Action of Methylthionosindicarboxaldehyde on Ribonuclease A as a Model System.
T. C. Spoor, J. L. Hodnett, and A. P. Kimball.

Combination Chemotherapy for Clinically Established Graft-versus-Host Disease in Mice.
H. Glucksberg and A. Fefer.

Binding Patterns of 3-Methylcholanthrene to Replicating and Nonreplicating DNA of Preneoplastic Nodule of Mouse Mammary Gland.
M. R. Banerjee, D. L. Kinder, and J. E. Wagner.

* Bacteriolytic and Bactericidal Activity in Monocytic and Myelomonocytic Leukemia with Hyperlysozymemia.
Waldemar Pruzanski, Wolf-Dietrich Leers, and Alastair C. Wardlaw.

* Sulfated Mucopolysaccharide Production by Synovial Sarcoma Cells in Vivo and in Tissue Culture.
Vincenzo Buonassisi and Luciano Ozzello.

* Bleomycin as a Possible Synchronizing Agent for Human Tumor Cells in Vivo.
S. C. Barranco, J. K. Luce, M. M. Romsdahl, and R. M. Humphrey.

Cell-Kill Kinetics of Several S-Phase-specific Drugs.

The Effect of Dose Interval on the Survival of L1210 Leukemic Mice Treated with DNA Synthesis Inhibitors.
G. L. Neil and E. R. Homan.

Chromatographic Studies of Tyrosyl and Phenylalanyl Transfer RNA's of Liver and Tumor Cells.
M. Hayashi, A. C. Griffin, Ronald Duff, and Fred Rapp.

Diffusion in Vitro and in Vivo of 1-(2-Chloroethyl)-3-(/ra/K-4-methylcyclohexyl)-1-nitrosourea from Silicone Rubber Capsules, a Potentially New Mode of Chemotherapy Administration.
Mark L. Rosenblum, Donald L. Bowie, and Michael D. Walker.

A Biologically Active Metabolite of Cyclophosphamide.
Michael Colvin, Charles A. Padgett, and Catherine Fenselau.

Letter to the Editor:
Comparability of the American Cancer Society and National Institutes of Health Peer Review Systems.
Stefano Vivona and Dominic Do Van Quy.

Announcement from the Editor.

Announcements.