Contents

Asterisks preceding page numbers refer to human studies.


889 The Significance of Hematogenous Tumor Cell Clumps in the Metastatic Process. Lance Allen Liotta, Jerome Kleiernman, and Gerald M. Sadel.


901 The 7.1 S Nuclear DNA Polymerase and DNA Replication in Intact Liver. William E. Lynch, John Short, and Irving Lieberman.


917 Tumorigenicity of β-Phenylethylhydrazine Sulfate in Mice. Bela Toth.

922 High-Pressure Liquid Chromatographic Separation of 10 Benzo(a)pyrene Phenols and the Identification of 1-Phenol and 7-Phenol as New Metabolites. James K. Selkirk, Robert G. Croy, and Harry V. Gelboin.

927 Inhibitory Effect of Endotoxin on the Growth of Plasma Cell Tumor. Loretta A. Bober, Marie J. Kranepool, and Vincent P. Hollander.

930 Increased Cell Killing by Metronidazole and Nitrofurazone of Hypoxic Compared to Aerobic Mammalian Cells. Jagjit K. Mohindra and Andrew M. Rauth.


*941 In Vitro Colony Formation of Transplantable Rat Leukemias in Comparison with Human Acute Myeloid Leukemia. D. W. van Bekkum, P. van Oosterom, and K. A. Dicke.

947 Dimethyl Sulfoxide-induced Enhancement of 7,12-Dimethylbenz[a]anthracene Metabolism and DNA Binding in Differentiating Mouse Epidermal Cell Cultures. Stuart H. Yuspa, Henry Hennings, Paul Dermer, and Delores Michael.

*952 The Effect of Levasimole on Cell-mediated Immunity and Suppressor-cell Function. Derek Sampson and Alec Lui.


964 Evaluation of Vitamin A Analogs in Modulating Epithelial Differentiation of 13-Day Chick Embryo Metatarsal Skin Explants. Lee J. Wilkoff, John C. Peckham, Elizabeth A. Duldadge, Robert W. Mowry, and Dharam P. Chopra.


The Influence of Retinyl Acetate on the Postinitiation Phase of Preneoplastic Lung Nodules in Rats. P. Nettesheim, M. Virginia Cone, and C. Snyder.

Long-Term Organ Culture of Human Bronchial Epithelium. Lucy A. Barrett, Elizabeth M. McDowell, Arthur L. Frank, Curtis C. Harris, and Benjamin F. Trump.

Binding of [3H]Benzo(a)pyrene to DNA in Cultured Human Bronchus. Curtis C. Harris, Arthur L. Frank, Carolein van Haaften, David G. Kaufman, Robert Connor, Frank Jackson, Lucy A. Barrett, Elizabeth M. McDowell, and Benjamin F. Trump.


Inhibition of Two-Stage Carcinogenesis in Mouse Skin with Bis(2-chloroethyl)sulfide. Benjamin L. Van Duuren and Alvin Segal.


Metastasizing Tumors from Serum-supplemented and Serum-free Cell Lines from a C57BL Mouse Lung Tumor. Leonard M. Franks, Anthony W. Carbonell, Valerie J. Hemmings, and Peter N. Riddle.

Induction of Syncytia by the Bovine C-type Leukemia Virus. Clement A. Diglio and Jorge F. Ferrer.


Isonucleolinosis in Cell Cultures of Human Meningiomas. H. Zankl and R. Love.

Immune Functions Characteristic of SJL/J Mice and Their Association with Age and Spontaneous Reticulum Cell Sarcoma. Marilyn Hescox Owens and Benjamin Bonavida.


Carcinogenesis by Carbamic Acid Esters and Their Binding to DNA. Allan Walton Pound and Terence Anthony Lawson.

Evidence of Repair of DNA Damage Induced by 4-Hydroxyaminoquinoline 1-Oxide in Guinea Pig Pancreatic Slices in Vitro. Zafar M. Iqbal, Mary Majdan, and Samuel S. Epstein.

Combination Chemotherapy of L1210 Leukemia with 1-β-D-Arabinofuranosylcytosine and 5-Azacytidine. Gary L. Neil, A. E. Berger, B. K. Bhuyan, and D. C. DeSante.


Molecular Interactions of the Combined Effects of Bleomycin and X-rays on Mammalian Cell Survival. John E. Byfield, Young C. Lee, Lorna Tu, and Fimi Kulhanian.

Role of the Adenylate Deaminase Reaction in Regulation of Adenine Nucleotide Metabolism in Ehrlich Ascites Tumor Cells. Astrid G. Chapman, Arnold L. Miller, and Daniel E. Atkinson.

Kinetic Correlates of Methotrexate Transport and Therapeutic Responsiveness in Murine Tumors. F. M. Sirotnak and R. C. Donsbach.

Electron Spin Resonance Spin-Label Studies of Intercalation of Ethidium Bromide and Aromatic...
Amine Carcinogens in DNA. Sun-Joo Hong and Lawrence H. Plette.


1196 Microsomal N-Oxidation of the Hepatocarcinogen N-Methyl-4-aminoazobenzene and the Reactivity of N-Hydroxy-N-methyl-4-aminoazobenzene. Fred F. Kadlubar, James A. Miller, and Elizabeth C. Miller.

1207 Announcement from the Editor.

1208 Announcements.

1210 Erratum.