CONTENTS

Asterisks * preceding page numbers refer to clinical studies.


19  Carcinogenicity in Rats of Nitrosomethylmethylanilines Labeled with Deuterium in Several Positions. William Lijinsky and Melvin D. Reuber.


26  Insignificant Tumor Bed Effect after Pretransplantation Hyperthermia. Muneyasu Urano and Mary Cunningham.


42  Effect of Dihydroxyanthraquinone and Radiation on \(O_2\) Progression. Bruce F. Kimler.


50  Effects of Structure and Chemical Activity on the Ability of Nitrosoureas to Inhibit DNA Repair. Herbert E. Kann, Jr., Mary Ann Schott, and Atalante Petkas.


61  DNA Methylyase Inhibition in Vitro by \(N\)-Methyl-\(N\)\'-nitro-\(N\)\'-nitroso-guanidine. Ray Cox.

64  Effect of Lactate Dehydrogenase Virus on Chemically Induced Mouse Lung Tumorigenesis. Jeffrey C. Theiss, Michael B. Shimkin, Gary D. Stoner, Alexis J. Kniazeff, and Ronald D. Hoppenstand.


75  Effects of Thioacetamide Treatment on Nuclear Envelope Nucleoside Triphosphatase Activity and Transport of RNA from Rat Liver Nuclei. Gary A. Clawson, Marlene Koplitz, David E. Moody, and Edward A. Smuckler.

80  Relationship of Bacillus Calmette-Guérin-induced Suppressor Cells to Hematopoietic Precursor Cells. James A. Bennett and John C. Marsh.

*86  Pharmacological Disposition of \(N\)-(Phosphonacetyl)-\(L\)-aspartate in Humans. Ti Li Loo, Jacqueline Friedman, E. Colleen Moore, Manuel Valdivieso, Jose R. Marti, and David Stewart.


95  Growth of Human Breast Carcinomas in Nude Mice and Subsequent Establishment in Tissue Culture. Barbara Rae-Venter and Lola M. Reid.


*107  Comparison of Pharmacokinetics of 5-Fluorouracil and 5-Fluorouracil with Concurrent Thymidine Infusions in a Phase I Trial. John M. Kirkwood, William Ensminger, Andre Rosowsky, Nicholas Papathanasopoulos, and Emil Frei, III.

114  Metabolism of \(N\)\-[4-(5-Nitro-2-furyl)-2-thiazolyl]formamide by Prostaglandin Endoperoxide Synthetase. Terry V. Zenser, Michael B. Mattamal, and Bernard B. Davis.

119  Comparison of the Hydroxylation of Benzo(a)pyrene with the Metabolism of Vinyl Chloride, \(N\)-Nitrosomorpholine, and \(N\)-Nitroso-N\'-Methylpiperazine to Mutagens by Human and Rat Liver Microsomal Fractions. Nicole Sadabie, Christian Malaville, Anne-Marie Camus, and Helmut Bartsch.

133 Ultrastructural Changes Induced by 3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-1-(2-chloroethyl)-1-nitrosourea in L1210 Lymphocytic Leukemia Cells in Mice. Kuniaki Fukuda, Hideyo Shindo, Fusaaki Shimizu, Masao Arakawa, and Vinci Mizuhira.

139 Effect of Methotrexate on 5-Phosphoribosyl 1-Pyrophosphate Levels in L1210 Leukemia Cells in Vitro. Jose M. Buesa-Perez, Albert Leyva, and Herbert M. Pinedo.


Letters to the Editor


190 Obituary: Otto F. E. Muhlbock. L. M. Boot.

191 Announcements

193 Instructions for Authors

201 Author Index