CONTENTS

Asterisks preceding page numbers refer to clinical studies.

293 Toward Improved Selectivity in Cancer Chemotherapy: The Richard and Hinda Rosenthal Foundation Award Lecture. Joseph R. Bertino


345 Imidoester Inhibition of Lymphocyte DNA Synthesis. Cary A. Presant and Susan Parker.


353 Evidence for Active Transport of Melphalan by Two Amino Acid Carriers in L5178Y Lymphoblasts in Vitro. Asher Begleiter, Hing-Yat Peter Lam, Judy Grover, Evelyn Froese, and Gerald J. Goldenberg.

360 Comparison of the Sensitivities of Human, Canine, and Murine Hematopoietic Precursor Cells to Adriamycin and N-Trifluoroacetyladiamycin-14-valerate. John C. Marsh.


383 Basis for Natural Variation in Sensitivity to 5-Fluorouracil in Mouse and Human Cells In Culture. Jeffrey D. Laskin, R. Mark Evans, Harry K. Slocum, Daniel Burke, and Maire T. Hakala.


408 Stimulation of Ultraviolet-induced Carcinogenesis by 1,3-Bis(2-chloroethyl)-1-nitrosourea. John H. Epstein.

411 Mutagenicity and Tumor-Initiating Activity of Fluoro- nated Derivatives of 7,12-Dimethylbenz(a)anthracene. Eliezer Huberman and Thomas J. Slaga.

415 Inhibitory Effect of Growth Hormone on Gross Passage A Virus-induced Thymus Leukemia in C3H Mice. René J. Duquesnoy and Grette M. Pedersen.

419 Correlation of the Inhibition by Retinoids of Tumor Promoter-induced Mouse Epidermal Ornithine Decarboxylase Activity and of Skin Tumor Promotion. Ajit K. Verma, Barbara G. Shapas, Hope M. Rice, and R. K. Boutwell.


443 Inhibition of Human Lymphocyte Mitogen and Antigen Response by a 15,000-Dalton Protein from Feline Leukemia Virus. Lynn C. Hebebrand, Richard G. Olsen, Lawrence E. Mathies, and W. S. Nichols.

448 Effects of N-Trifluoroacetyladriamycin-14-valerate and Related Agents on DNA Strand Damage and Thymidine Incorporation in CCRF-CEM Cells. Peter M. Kanter and Herbert S. Schwartz.


468 In Vivo Tumor Discrimination in a Rat by Proton Nuclear Magnetic Resonance Imaging. Paul A. Bottomley.

471 DNA Repair in Xeroderma Pigmentosum Cells Treated with Combinations of Ultraviolet Radiation and N-Acetoxy-2-acetylaminofluorene. Farid E. Ahmed and R. B. Setlow.


487 Dihydrofolate Reductase in Primary Brain Tumors, Cell Cultures of Central Nervous System Origin, and Normal Brain during Fetal and Neonatal Growth. David S. Duch, Darell D. Bigner, Seaton W. Bowers, and Charles A. Nichol.


507 Two-Dimensional Gel Electrophoretic Comparison of Proteins of Nuclear Fractions of Normal Liver and Novikoff Hepatoma. Hiroshi Takami and Harris Busch.


*527 Sensitivity of Human Granulopoiesis in Vitro to Adriamycin before and after Exposure In Vivo. Hans-Peter Lohrmann and Wolfgang Schreml.


535 Influence of Oil Concentration on the Efficacy of Tumor Regression by Emulsified Components of Mycobacteria. Eliyahu Yarkoni and Herbert J. Rapp.

Communications

538 Effect of Thymidine on the Sensitivity of Cultured Mouse Tumor Cells to 1-β-D-Arabinofuranosylcytosine. Alan W. Harris, Eric C. Reynolds, and Lloyd R. Finch.


547 Announcements

548 Erratum

549 Author Index