CONTENTS

Bengt Sylven and Ingeborg Bois. Protein Content and Enzymatic Assays of Interstitial Fluid from Some Normal Tissues and Transplanted Mouse Tumors 881

Relda Cailleau. The Establishment of a Cell Strain (MAC-21) from a Mucoid Adenocarcinoma of the Human Lung 837

Per Eric Lindahl. Separation of Ascites Tumor Cells Rich in Deoxyribonucleic Acid by Means of Counter-Streaming Centrifugation 841

Chung Wu and Jere M. Bauer. A Study of Free Amino Acids and of Glutamine Synthesis in Tumor-bearing Rats 848

Jewel Plummer Cobb and Dorothy G. Walker. Studies on Human Melanoma Cells in Tissue Culture. I. Growth Characteristics and Cytology 858

Donald Pace and Alice Elliott. Studies on the Effects of Acetaldehyde on Tissue Cells Cultivated in Vitro 868


Anna Dean Dulaney and Martha F. Goss. Serial Passage of the Parotid Gland Tumor Agent in Mice: The Activity of Such Tumor Extracts for Several Strains of Mice 887

Wesley C. Starbuck and Harris Busch. Kinetics of Incorporation of L-Arginine-U-C14 into Nuclear Proteins of Tumors and Other Tissues in Vitro 891

Charles Heidelberger, Anne Ghobar, Ralph K. Baker, and K. L. Mukherjee. Studies on Fluorinated Pyrimidines. X. In Vitro Studies on Tumor Resistance 897

Charles Heidelberger, George Kaldor, K. L. Mukherjee, and Peter B. Danneberg. Studies on Fluorinated Pyrimidines. XI. In Vitro Studies on Tumor Resistance 903


J. O. Ely and James H. Gray. In Vitro Culture of the Krebs Ascites Carcinoma and the Ehrlich Ascites Carcinoma of Mice 918

Norman D. Lee. The Suppression of Induced Enzyme Formation in Mammalian Liver by Structural Analogs of Purine and by Aminopterin 923


Robert Hess. Localization of a Cathepsin-like and Aminopeptidase Activity in Various Solid Tumor Transplants 940

Roland R. Rueckert and Gerald C. Mueller. Effect of Oxygen Tension on HeLa Cell Growth 944

James A. Miller, John W. Cramer, and Elizabeth C. Miller. The N- and Ring-Hydroxylation of 2-Acetylaminofluorene during Carcinogenesis in the Rat 950

E. Douglas Rees and Charles Huggins. Steroid Influences on Respiration, Glycolysis, and Levels of Pyridine Nucleotide-linked Dehydrogenases of Experimental Mammary Cancers 963

Obituary 972

THE OFFICIAL ORGAN OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC. Published by THE UNIVERSITY OF CHICAGO PRESS