CONTENTS

David M. Greenberg. Isotopic Tracer Studies on the Biochemistry of Cancer .................. 421

George Miroff, Carlos Martinez, and John J. Bittner. Acceleration in the Transplantation and Killing Time of Mammary Tumors in Mice Pretreated with a Heat-stable Tumor Tissue Preparation ............................................. 437

Carlos Martinez, George Miroff, and John J. Bittner. Studies on the Heat-stable Accelerant from Transplanted and Spontaneous Mammary Tumors in Mice ........................................... 442

Ernest L. Wynder, Evarts A. Graham, and Adele B. Croninger. Experimental Production of Carcinoma with Cigarette Tar. II. Tests with Different Mouse Strains ........................................ 445

E. von Haam and D. G. Scarpelli. Experimental Carcinoma of the Cervix: A Comparative Cyto logic and Histologic Study ................................................................. 449

Darrell N. Ward and A. Clark Griffin. Phosphorus Incorporation into Nucleic Acids and Proteins of Liver Nuclei of Normal and Azo Dye-fed Rats ............................................. 456

Mary J. Hogue and Alan Rubin. Studies on the Solid Form of Mouse Sarcoma 37 Grown in Tissue Culture ................................................................. 462

John J. Bittner and David T. Imagawa. Effect of the Source of the Mouse Mammary Tumor Agent (MTA) upon Neutralization of the Agent with Antisera ........................................... 464

Carlos Martinez, George Miroff, and John J. Bittner. Effect of the Size on the Transplantability and Lethality Properties of Spontaneous and Transplanted Mammary Tumors in Mice ........................................... 469

Richard A. Malmgren and Clyde C. Flanigan. Localization of the Vegetative Form of Clostridium tetani in Mouse Tumors Following Intravenous Spore Administration .......... 473

Nathan B. Friedman, James A. Sargent, and Eileen Drutz. Certain Effects of Irradiation and Chemotherapy on Cellular Division and Differentiation ............................................. 479

L. L. Bennett, Jr., Howard E. Skipper, C. Chester Stock, and C. P. Rhoads. Searches for Exploitable Biochemical Differences between Normal and Cancer Cells. I. Nucleic Acid Purine Metabolism in Animal Neoplasms ............................................. 485

Announcement .................................................................................. 492

THE OFFICIAL ORGAN OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.

Published by THE UNIVERSITY OF CHICAGO PRESS