Contents

1 Acknowledgment to Reviewers

2 Edwin O. Field, Joseph P. Kriss, and Lucie A. Tung. Turnover of Thymidine in the DNA of Marrow and Intestinal Mucosa in Mice, and Its Response to Administration of 5-Fluorouracil

9 S. Lindsay, G. E. Sheline, G. D. Potter, and I. L. Chaikoff. Induction of Neoplasms in the Thyroid Gland of the Rat by X-Irradiation of the Gland

17 H. Francis Havas and Andrew J. Donnelly. Mixed Bacterial Toxins in the Treatment of Tumors. IV. Response of Methylcholanthrene-induced, Spontaneous, and Transplanted Tumors in Mice

26 H. L. Ratcliffe. Hepatitis, Cirrhosis, and Hepatoma in Birds

31 Frederic P. Herter, Sanford G. Weissman, Hartwell G. Thompson, Jr., George Hyman, and Daniel S. Martin. Clinical Experience with 6-Aminonicotinamide

38 Irving Zeidman. The Fate of Circulating Tumor Cells. I. Passage of Cells through Capillaries

40 I. Gordon Fels and Joseph Greco. Changes in Epidermal Hydroxyproline and Tyrosine Accompanying Induced Epidermal Carcinogenesis

44 Kun Se Kwak, Eloise Jameson, R. Mark Ryan, and Harrison M. Kurtz. The Effect of Varying Implant Cell Numbers on the Inhibitory Activity of Guinea Pig Serum on Walker Carcinosarcoma 256 in the Rat

48 J. S. Colter, Jeanne Kuhn, and K. A. O. Ellem. The Ribonucleases of Mouse Ascites Tumors

52 E. H. Mercer and G. C. Easty. The Fine Cytology of the Walker Tumor


64 Leo A. Miller and Anna Goldfeder. Comparison of Adenosine Triphosphatase Activity of Nuclei and Mitochondria from Mouse Mammary Adenocarcinoma


75 Bertie F. Argyris and Thomas S. Argyris. Mechanism of Mammary Duct Stimulation by Tumor Transplants

82 C. Carruthers and B. Davis. The Lipide Composition of Epidermis and Dermis of Mice Undergoing Carcinogenesis by Methylcholanthrene

86 Annabel G. Liebelt and Robert A. Liebelt. Effects of a Single Pituitary Isograft on Mammary Tumorigenesis in Mice

92 Elling Kvamme and Gerd Svenneby. The Effect of Glucose on Glutamine Utilization by Ehrlich Ascites Tumor Cells


105 Edward Bresnick and George H. Hitchings. Feedback Control in Ehrlich Ascites Cells

110 C. A. Pasternak, G. A. Fischer, and R. E. Handschumacher. Alterations in Pyrimidine Metabolism in L5178Y Leukemia Cells Resistant to 6-Azauridine

118 J. Frank Henderson and Irene G. Junga. The Metabolism of 4-Aminopyrazolo(3,4-d)pyrimidine in Normal and Neoplastic Tissues

130 Virginia I. Babcock and Chester M. Southam. Transplantable Renal Tumor of the Rat

132 Enid T. Oppenheimer, Margaret Willhite, I. Danieshafy, and Arthur Purdy Stout. Observations on the Effects of Powdered Polymer in the Carcinogenic Process

135 Announcements