Contents

1 RNA Synthesis in Ascites Hepatoma AH-130 Cells of Rats. 
    Tetsuya Fukuda, Takiko Akino, Minoru Amano, and Mitsuo Izawa.

11 Toxicity, Tissue Changes, and Tumor Induction in Inbred Swiss Mice by Methylnitrosamine and -amide Compounds. 
    Jaroslav V. Frei.

18 Further Studies on Serum Protein Formation by Chimeras: Induction of Chimerism with a Chemical Carcinogen. 
    Yuko Kikuchi and Mildred E. Phillips.

24 Selective Inhibition by Sorbylhydroxamic Acid of Deoxyribonucleic Acid Synthesis in Ehrlich Ascites Tumor Cells. 
    Glen R. Gale, Alayne B. Smith, and Ernest M. Walker, Jr.

30 Occurrence, Pathological Features, and Propagation of Gonadal Teratomas in Inbred Mice and in Rabbits. 

35 Autonomous Variants of an Androgen/Estrogen-induced and -dependent Ductus Deferens Leiomyosarcoma of the Syrian Hamster. 
    Hadley Kirkman and F. Thomas Algard.

41 Spontaneous Leukemia in Fischer Rats. 
    William C. Moloney, Anthony E. Boschetti, and Vincent P. King.

44 Selected Enzymes of Pyrimidine Nucleotide Metabolism in Livers from Rats Fed α-Naphthylisothiocyanate. 
    Thomas W. Sneider, Edward L. Krawitt, and Van R. Potter.

48 Nickel Carbonyl Inhibition of RNA Synthesis by a Chromatin-RNA Polymerase Complex from Hepatic Nuclei. 
    Douglas J. Beach and F. William Sunderman, Jr.

51 Joint Lethal Effects of Actinomycin D and Radiation in Mice. 

58 Polyrribosome Disaggregation in Rat Liver following Administration of Tannic Acid. 
    Janardan K. Reddy, Masahiro Chiga, Curtis C. Harris, and Donald J. Svoboda.

66 Antilymphocyte Serum and Allogeneic Inhibition. 

69 Studies on the Uptake of Tubercidin (7-Deazadenosine) by Blood Cells and Its Distribution in Whole Animals. 

76 Clinical Studies with Tubercidin Administered by Direct Intravenous Injection. 

79 Clinical Studies with Tubercidin Administered after Absorption into Human Erythrocytes. 

82 Metabolism of an Antineoplastic Methylhydrazine Derivative in a P815 Mouse Neoplasm. 
    W. Kreits.

90 The Electrokinetic Surfaces of Human Cells of Lymphoid Origin and Their Ribonuclease Susceptibility. 
    L. Weiss and L. F. Sinks.

95 Alteration of Native DNA Transcription by the Mutagen Hydroxylamine. 
    Andrew T. Taylor, Susan B. Crist, and Oliver W. Jones.

100 Effects of Certain Nitrogen Mustards upon the Progression of Cultured H.Ep. No. 2 Cells through the Cell Cycle. 
    Glynn P. Wheeler, Bonnie J. Bowdon, Doris J. Adamson, and Margaret H. Vail.

112 Differences in the Action of Nitrosomethyurea and Streptozotocin. 
    Herbert S. Rosenkranz and Howard S. Carr.

118 An Early Effect of 7,12-Dimethylbenz(a)anthracene on Rat Mammary Gland DNA Synthesis. 
    Takeshi Tominaga, Paul R. Libby, and Thomas L. Dao.

123 Adenyl Cyclase Activity in Morris Hepatomas 7777, 7794A, and 9618A. 
    Harry Darrow Brown, Swaraj K. Chattopadhyay, Harold P. Morris, and Sam N. Pennington.

127 Expression of Differentiated Function by Mammary Carcinoma Cells in Vitro. 
    Roger W. Turkington and Marie Riddle.
Effect of L-Asparaginase on DNA Synthesis in Regenerating Liver and in Other Dividing Tissues. F. F. Becker, R. Baserga, and J. D. Broome.

Analysis of Contrasting Effects of Exogenous DNA on L1210 Cell Viability. J. Leslie Glick.


Incorporation of Iododeoxyuridine 125I into the DNA of L1210 Leukemia Cells during Tumor Development. Kurt G. Hofer and Walter L. Hughes.

E Antigen: A Cell-Surface Antigen of C57BL Leukemias. Tadao Aoki, Burghard Stück, Lloyd J. Old, Ulrich Hämmerling, and Etienne de Harven.

Letter to the Editor: Cancer of the Nasopharynx. R. Schoental.

Carcinoma of the Colon and Antecedent Epithelium. Walter J. Burdette.

Books Received.

Special Announcement: Travel to the Tenth International Cancer Congress.

Announcements.

Instructions to Authors.

Shimkin has been in the forefront of many advances in cancer. He established the pulmonary tumor response in mice as a quantitative bioassay procedure, as well as a model for biomathematical formulations. His quantitative studies on polycyclic hydrocarbons (with W. R. Bryan) are classical. He discovered the induction of interstitial cell testicular tumors in mice and the inhibition of mammary carcinogenesis in mice by adrenalectomy. Biometric analyses of clinical data led Shimkin to important conclusions on the natural history and effects of treatment in leukemia, lymphoma, and breast cancer. His analyses were influential in demolishing the dogma of radical surgery for cancer of the breast and lung. He has been a pioneer in studies on the relationship of smoking to lung cancer and his deductions reported in Advances in Cancer Research, Vol. 3, published in 1955, preceded by 7 years the 1962 report of the Surgeon General of the U. S.
