Contents

1 RNA Synthesis in Ascites Hepatoma AH-130 Cells of Rats. Tetsuya Fukuda, Takiko Akino, Minoru Amano, and Mitsuo Izawa.
18 Further Studies on Serum Protein Formation by Chimeras: Induction of Chimerism with a Chemical Carcinogen. Yuko Kikuchi and Mildred E. Phillips.
41 Spontaneous Leukemia in Fischer Rats. William C. Moloney, Anthony E. Boschetti, and Vincent P. King.
58 Polyribosome Disaggregation in Rat Liver following Administration of Tannic Acid. Janardan K. Reddy, Masahiro Chiga, Curtis C. Harris, and Donald J. Svoboda.
82 Metabolism of an Antineoplastic Methylhydrazine Derivative in a P815 Mouse Neoplasm. W. Kreis.
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.
112 Differences in the Action of Nitrosomethylurea 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. Dau.
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.


Effect of Steroid Hormones on the in Vivo Incorporation of Glycine-2-14C into Solid Ehrlich Tumors. Mitsuo Kodama and Toshiko Kodama.

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

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.

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30 (1)


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