Contents

Abraham Cantarow.

1918 The Effect of Different Incubation Temperatures on the Adenine Nucleotide Content of Ehrlich-Lettré Ascites Tumor Cells.
James D. Dawson and Leonard A. Sauer.

1922 Inhibition of the Carcinogenic Action of Benzo-(a)pyrene by Flavones.
Lee W. Wattenberg and J. Lionel Leong.

1926 Hydroxyurea and Escherichia coli Nucleoside Diphosphate Reductase.
Herbert S. Rosenkranz and Howard S. Carr.

1928 Sex Factors in Growth of Malignant Melanoma in Hamsters: In Vivo and in Vitro Correlation.
George Lipkin.

1932 Enhanced Cures of Spontaneous Murine Mammary Carcinomas with Surgery and Five-Compound Combination Chemotherapy, and Their Immunotherapeutic Interrelationship.

1937 Biochemical Studies of Cytokinetic Changes during Tumor Growth.
John W. Harris, Frank Meyskens, and Harvey M. Patt.

1947 RNA and Amine Synthesis in the Liver of Rats Given Injections of Thioacetamide.
Nelson Fausto.

1953 Observations with a Variant of Lymphocytic Choriomeningitis Virus in Mouse Tumors.
John Eisetein and Max W. Biggs.

1958 Dimethyl Sulfoxide, a Convenient Solvent of 7,12-Dimethylbenz(a)anthracene for Intravenous Injection.
Arpad Somogyi and Kalman Kovacs.

1961 Effects of Arabinosylcytosine Nucleosides on DNA Synthesis in Rats.
L. Lenaz and F. S. Philips.

1963 Immunofluorescent Localization of Mammary Tumor Virus Antigens in Mammary Tumor Cells in Culture.
C. M. McGrath and Phyllis B. Blair.

1969 Space-Time Clustering of Childhood Leukemia in San Francisco.
Melville R. Klauber and Piero Mustacchi.

1974 Metabolic Adaptations during Hepatocarcinogenesis: Dietary Induction of Some Enzymes of Carbohydrate Metabolism during 3'-Methyl- and 2'-Methyl-N,N-dimethyl-4-aminoazobenzene Feeding.
Lionel A. Poirier and Henry C. Pitot.

1980 Dietary Induction of Some Enzymes of Amino Acid Metabolism following the Acute Administration of Aminoazo Dyes.
Lionel A. Poirier and Henry C. Pitot.

1986 Studies on the Role of Polymorphonuclear Leukocytes in Neoplastic Disease with the Chick Embryo and Walker Carcinosarcoma 256 in Vivo and in Vitro.
John J. Godleski, Robert E. Lee, and Joseph Leighton.

1994 Effects of Hydroxyurea and 6-Mercaptopurine on Growth and Some Aspects of Carbohydrate Metabolism in Regenerating and Neoplastic Liver.
M. A. Lea, D. Sasovetz, A. Musella, and H. P. Morris.

2000 The Effects of 7,12-Dimethylbenz(a)anthracene on the Synthesis of Nucleic Acids in Rapidly Dividing Hepatic Cells in Rats.
Hans Marquardt and Frederick S. Philips.

2007 Enhancement of X-ray Damage in HeLa Cells by Exposure to Lucanthone (Miracil D) following Radiation.
Robert Bases.

2012 Chromosome Studies of Cell Lines and Tumors Derived from a Single Specimen of Human Leukemic Blood by Cell Culture and Hetero-transplantation.
Awtar Krishan and Ratna Raychaudhuri.

2017 The Action of Streptozotocin on Mammalian Cells.
B. K. Bhuyan.

2024 Use of a Murine Sarcoma Virus in an in Vivo Assay for Antiviral and Antitumor Agents.

2029 On Protein Targets of Chemical Carcinogens: Dissimilar Molecular Sizes of the Principal Protein Conjugates.
Sam Sorof, Emily M. Young, Regina A. McBride, and Carol B. Coffey.
2035 Further Observations Concerning Effects of Antilymphocyte Serum on Tumor Growth: With Special Reference to Allogeneic Inhibition. 

**Bernard Fisher, Osama Soliman, and Edwin R. Fisher.**

2043 The Isolation of Normal Rat Liver h Proteins and the Immunological Reactions of Mouse Anti-Rat Liver h Protein. 

**C. J. Louis and J. M. Blunck.**

2049 Metabolism of Renal Tumors in Situ and during Ischemia. 


---

2055 Biochemical Studies on Hormone-responsive Mammary Tumors in BR6 Mice. 

**J. A. Smith and R. J. B. King.**

2061 Spectrophotometric Analyses of Cytochromes in Ascites Hepatomas of Rats and Mice. 

**Nobuhiro Sato and Bunji Hagihara.**

2069 Mouse Strain and Breeding Stimulation as Factors Influencing the Effect of Thymectomy on Mammary Tumorogenesis. 

**Francesco Squartini, Maria Olivi, and Giovanni B. Bolis.**

2073 Antigenic Analysis of L Strain Cells: A New Murine Leukemia-associated Antigen, “L.” 

**J. C. Leclerc, J. P. Levy, B. Varet, S. Oppenheim, and A. Senik.**

2080 Announcements.

---

**COVER LEGEND**

John J. Bittner (1904—1961), late Professor of Cancer Biology at the University of Minnesota, was a member of the Jackson Memorial Laboratory (Bar Harbor, Maine) whose staff in 1933 reported an extrachromosomal influence in the etiology of breast tumors of mice (The Existence of Non-Chromosomal Influence in the Incidence of Mammary Tumors in Mice. Science, 78 (N.S.): 465—466, 1933). In 1934, Bittner undertook foster nursing studies, the results of which were published as a preliminary report 2 years later (Some Possible Effects of Nursing on the Mammary Gland Tumor Incidence in Mice. Science, 84 (N.S.): 162, 1935). Research communicated by Bittner, between 1936 and 1939, established the presence of a transmissible factor, the “milk agent” (MTA) in the etiology of these rodent neoplasms (Breast Cancer in Mice. Am. J. Cancer, 35: 44—50, 1939: Relation of Nursing to the Extra-Chromosomal Theory of Breast Cancer. Am. J. Cancer, 35: 90—97, 1939).


The portrait of Bittner, lower right, taken in 1933, was supplied by Dr. Leonell Strong. Upper left, a photo of Korteweg, date unknown, was sent through the courtesy of Dr. Otto Mühlbock.