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1923 Fate of Pyruvaldehyde Bis(thiosemicarbazone)-$^{35}$S in Male and Female Rodents.
James G. Cappuccino and M. Earl Balis.

1932 Comparison of Metabolism of $^{131}$I by Cell- and Organ-cultured Abnormal Human Thyroid Tissues.
Wellington Hung, Theodore Winship, Keith Bowen, and John C. Houck.

1938 Acid Hydrolase Activity during the Growth, Necrosis, and Regression of the Jensen Sarcoma.
Ralph F. Kampschmidt and Dan Wells.

H. W. Beams and R. G. Kessel.

1952 Recognition and Evaluation of Lapachol as an Antitumor Agent.

1955 On the Poor Correlation between the Inhibition by Methotrexate of Dihydrofolate Reductase and of Deoxynucleoside Incorporation into DNA.
DeWayne Roberts and Isidore Wodinsky.

1963 Characterization of Four Transplantable Mammary Tumor Variants in the Rat.
G. Ueda, S. Takizawa, P. Moy, F. Marolla, and J. Furth.

Hywel Madoc-Jones and William R. Bruce.

1982 Similarity between Leukocyte Cultures from Cancerous and Noncancerous Human Subjects: An Electron Microscopic Study.
S. Chandra, G. E. Moore, and P. M. Brandt.

1990 Immunoelectrophoretic Analysis of Labeling of Serum Proteins after Administration of the Carcinogen N-Hydroxy-N-2-fluorenylacetamide.
C. Deckers, P. H. Grantham, and J. H. Weisburger.

1995 Characteristics of Mouse Leukemic Cells Resistant to 5-Azacytidine and 5-Aza-2'-deoxyeytidine.
J. Vesely, A. Chak, and F. Sorm.

2001 The Use of Uterine Vascular Clamping in the Pregnant Rat to Modify the Embryotoxic Effects of Anticancer Drugs.

2007 Localized Incorporation of Iododeoxyuridine from Polycation-complexed Iododeoxyxytidylic Acid into DNA of Several Murine and Hamster Tumors.
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2086 Effects of Divalent Cations on K+ Transport in Rat Liver and Morris Hepatoma 5123tc.
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**COVER LEGEND**

Two essential components of cancer research, studies on the natural history of cancer in man and the effects of treatment on the course of the disease, are represented in two classic contributions.

Alexandre von Winiwarter (1848—1916) of Belgium, affiliated with Theodor Billroth's clinic of surgical pathology in Vienna, examined the end results of his mentor's surgical experiences. He compiled these data into one of the first statistical reviews of operative results in cancer, especially of patients with mammary and gastric cancer (*Beitrage zur Statistik der Carcinome*, Enke, Stuttgart, 1878).


The photographs of Winiwarter and Greenwood, right and left respectively, were obtained from the New York Academy of Medicine Library, whose assistance is gratefully acknowledged.