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Asterisks preceding the title refer to studies in humans.

1977 Riboflavin and Cancer: A Review.
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1987 An Experimental Screening for “Systemic Adjuvants of Immunity” Applicable in Cancer Immunotherapy.
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1998 Filamentous Forms of Enveloped A Particles in Cell Cultures from Chemically Induced Rat Hepatomas.
Jan Marc Orenstein and I. Bernard Weinstein.

2005 3-(Tetraacetyl Glucopyranos-2-yl)-1-(2-chloroethyl)-1-nitrosourea, an Antitumor Agent with Modified Bone Marrow Toxicity.
Philip S. Schein, Mary G. McMenamin, and Tom Anderson.

2010 The Principal Liver Carcinogen-Protein Conjugate after a Single Dose of Hepatic Azocarcinogen.
Sam Sorof and Emily M. Young.

2014 Schedule-dependent Therapeutic Synergism for L-Asparaginase and Methotrexate in Leukemic (L5178Y) Mice.

2020 *Asparaginase in Combination Chemotherapy for Remission Induction of Childhood Acute Lymphocytic Leukemia.

2026 Growth Characteristics of Burkitt Somatic Cell Hybrids in Vitro.

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The Effect of Urethan on the Incorporation of Thymidine-[H] into DNA and the Activities of Some Enzymes Required for DNA Biosynthesis in Rat Regenerating Liver.

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Protective Effect of Delipidated Mycobacterial Cells and Purified Cell Walls against Ehrlich Carcinoma and a Syngeneic Lymphoid Leukemia in Mice.


Thymic Changes in the Magnesium-depleted Rat.


Special Announcement: Annual Meeting of the American Association for Cancer Research, Inc.

Announcements.

Erratum.

German pharmacologist Hermann Druckrey (b. 1904) received his education in Giessen, Heidelberg, and Leipzig. In 1942, he became professor of pharmacology and toxicology at the University of Berlin, and by 1965, he became Director of Forschergruppe Präventivmedizin, a foundation of Deutsche Forschungsgemeinschaft, occupying the building at Stefan-Meier Strasse 8, Freiburg (illustrated).

Professor Druckrey has devoted his career to research in cancer biochemistry, chemotherapy, and carcinogenesis. His systematic studies on the relationships between chemical structure, dose, time, route of administration, and the condition of the host have been especially fruitful with N-nitroso compounds, hydrazo-, azo-, and azoxyalkanes, and triazenes. He and his co-workers recorded their important findings in a long series of papers during the 1960's in Naturwissenschaften and in Zeitschrift für Krebsforschung (e.g., H. Druckrey, R. Preussmann, S. Ivanovic, and D. Schmähl. Organotrope carzinogene Wirkungen bei 65 verschiedenen N-Nitroso-Verbindungen an BD Ratten. Z. Krebsforsch., 69: 103–201, 1967).

Three neoplastic effects are illustrated: brain glial in rat following single transplacental dose of ethylnitrosourea (top); gastric adenocarcinoma in guinea pig fed methylnitrosourethan (center); and colonic multiple adenocarcinoma in rat given injections s.c. of azoxymethane (bottom).

Nitrosamine carcinogenesis gained significance when it was shown that such compounds occur in foods and in cigarette smoke, and that they were formed in food in the presence of nitrates (cf. Lancet, I: 1071–1072, 1968). These compounds are among candidates as environmental carcinogens in human cancer, especially of the gastrointestinal tract.

We are indebted to Professor Druckrey for the portrait, taken in 1965, and the illustrations and hope that his fruitful years of experimental work, which ended in 1972, are now replaced by an equally gratifying retirement.