Contents

445  Running Syndrome in Rats Inoculated with Friend Virus.

450  The Inhibition of Croton Oil-promoted Mouse Skin Tumorigenesis by Steroid Hormones.
    Sidney Belman and Walter Troll.

455  The Effect of Cyclic Adenosine 3',5'-Phosphate on Tumor Immunity.
    Perry G. Rigby.

458  The Use of Dihydrofolate Reductase as a Signal for Scheduling Optimal Treatment with Antileukemic Agents.
    Chava T. Hardesly, Daphne Chen, and J. A. R. Mead.

462  Growth in Vitro and Induction of Differentiation in Cells of Basal Cell Cancer.
    B. Allen Flaxman.

470  Survival of Hematopoietic and Lymphoma Colony-forming Cells in Vivo following the Administration of a Variety of Alkylating Agents.
    Frederick A. Valeriote and Sandra J. Tolen.

477  In Vitro Demonstration of Cell-mediated Immunity to Human Brain Tumors.
    Nelson L. Levy, M. S. Mahaley, Jr., and Eugene D. Day.

483  Blood Flow in Irradiated Mouse Sarcoma as Determined by the Clearance of Xenon-133.
    Robert F. Kallman, Gerald L. DeNardo, and Mary J. Stasch.

491  On the Sulfate Ester of N-Hydroxy-N-2-fluorenlyacetamide as a Key Ultimate Hepatocarcinogen in the Rat.

501  Immunological and Cytogenetic Properties of Developing Thyroid Tumors in the Rat.
    A. Al Saadi and Gerald J. Mizejewski.

506  New Species of Rapidly Hybridizing RNA in Contact-inhibited as Well as Transformed Hamster Cell Lines.

511  Comparative Biochemical Studies of Adriamycin and Daunomycin in Leukemic Cells.
    Jaw J. Wang, David S. Chervinsky, and Jeffrey M. Rosen.

516  Tumor-specific, Cell-mediated Immune Resistance to Autochthonous Tumors.

522  Evaluation of Combination Chemotherapy in Vivo and in Culture with 1-β-D-Arabinofuranosylcytosine and 1-Formylisouquinoline Thiosemicarbazone.
    Gerald B. Grindev, Enrico Mihich, and Charles A. Nichol.

527  Interaction of Drugs Inhibiting Different Steps in the Synthesis of DNA.
    Gerald B. Grindey and Charles A. Nichol.

532  Effect of D-L-Glyceraldehyde on Mouse Neuroblastoma Cells in Culture.
    Arthur Sakamoto and Kedar N. Prasad.

535  Therapeutic Efficacy of Cyclophosphamide as a Function of Its Metabolism.
    N. E. Sladek.

543  Isolation and Chemical Characterization of Cell Surface Sialoglycopeptide Fractions during Progression of Rat Ascites Hepatoma AS-30D.
    David F. Smith and Earl F. Walbarg, Jr.

550  Mutagenic Selectivity for the RNA-forming Genes in Relation to the Carcinogenicity of Alkylating Agents and Polycyclic Aromatics.
    O. G. Fahmy and Myrtle J. Fahmy.

558  Effects of Cytosine Arabinoside and 1,3-Bis(2-chloroethyl)-1-nitrosourea on Human Glioblastoma Cells.
    Tsu T. Chen and John Mealey, Jr.

565  Studies of the Antineoplastic Activity and Metabolism of α-(N)-Heterocyclic Carboxaldehyde Thiosemicarbazones in Dogs and Mice.

573  Morphogenesis of Two Immunologically Induced Mouse Lymphomas.
    Gerhard R. Krueger and Ursula J. Heine.

583  Epidermodysplasia Verruciformis as a Model in Studies on the Role of Papovaviruses in Oncogenesis.
    Stefania Jablonska, Jan Dabrowski, and Kazimierz Jakubowicz.

590  Liberation of a Mouse Uterus-specific Protein in the Serum during Uterine Carcinogenesis.
    Didier Dufour, Roberto Estrada, and Suhasini P. Taskar.

595  The Effect of cis-Platinum(II)diaminodichloride on Bone Marrow.
    Miroslav Žák, Jaroslav Drobník, and Zdeněk Režný.
Daunorubicin Metabolism by Human Hematological Components.  
David H. Huffman and Nicholas R. Bachur.

Coordinated Treatment of Childhood Rhabdomyosarcoma with Surgery, Radiotherapy, and Combination Chemotherapy.  
Charles B. Pratt, H. Omar Hustu, Irvin D. Fleming, and Donald Pinkel.

Effect of Estrogen Administration on Glucose 6-Phosphate Dehydrogenase and Lactate Dehydrogenase Isoenzymes in Rodent Mammary Tumors and Normal Mammary Glands.  
Arthur H. Richards and Russell Hilf.

Transplacental Effect of Some Chemical Compounds on Organ Cultures of Embryonic Kidney Tissue.  

Age-specific Changes in the Proliferation of Ehrlich Ascites Tumor Cells Grown as Solid Tumors.  
Peeyush K. Lala.

Enzymatic Activation of the Oncogen 3-Hydroxyxanthine.  
Gerhard Stöhrer, Elaine Corbin, and George Bosworth Brown.

The Binding of 9,10-Dimethyl-1,2-benzanthracene to Mouse Epidermal Satellite DNA in Vivo.  

Brief Communications:  
Polyadenylic-Polyuridylic Acid, an Adjunct to Surgery in the Treatment of Spontaneous Mammary Tumors in C3H/He Mice and Transplantable Malignoma in the Hamster.  
Fanny Lacour, Alfred Spira, Jean Lacour, and Michel Prade.

Letter to the Editor:  
The Radiation Response of Human Malignant Melanoma Cells in Vitro and in Vivo.  
Shirley Hornsey.

Announcements.

COVER LEGEND

Amédée Borrel (1867-1936) was one of the earlier proponents of the filterable virus theory of cancer. He presented his views in a thoughtful series of papers on "Le problème du cancer," in the Rev. Bull. Inst. Pasteur, 5: 497-512, 593-608, and 641-662, 1907. Borrel was professor of bacteriology and hygiene at the University of Strasbourg, France. He was associated with the Pasteur Institute in Paris, developing with Calmette a plague vaccine. He was a member of the French Academy of Sciences.

Charles C. Oberling (1895-1960), a product of the University of Strasbourg, was a disciple of Borrel and a strong advocate of the virus etiology of neoplasia. His basic training was in pathology, but he was a generalist not only in cancer but in life as well. His career included a deanship of the medical school in Teheran, Iran (1939-1947), several years in the United States, and the directorship of the Institut de Recherches sur le Cancer of the Université de Paris in Villejuif. In 1943 he wrote the book Le Cancer (Paris: Gallimard, Ed. 7, 1954) which W. H. Woglom translated into English as The Riddle of Cancer (Yale Univ. Press, 1952), and which is a masterpiece of its kind. Oberling had many warm friends throughout the world, and this warmth is reflected in his obituaries (Cancer Res., 20: 1274-1276, 1960; Cancer, 13: 868-870, 1960).

We are indebted to Dr. Ludwik Gross for the portraits and his assistance. Borrel appears at right: Oberling, left. The portraits are reprinted with permission of Pergamon Press, Inc., New York, from the second edition of Oncogenic Viruses (1970) by Ludwik Gross.