The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.

**BASIC SCIENCES**

**3307** Effects of Inhibitors of Plasminogen Activator, Serine Proteinases, and Collagenase IV on the Invasion of Basement Membranes by Metastatic Cells. Reuven Reich, Erik W. Thompson, Yukihide Iwamot, George R. Martin, James R. Deason, George C. Fuller, and Ruth Miskin.

**3313** Inhibition by Dietary Ethanol of Experimental Colonic Carcino genesis Induced by High-Dose Azoxy methane in F344 Rats. Stanley R. Hamilton, Ock Soon Sohn, and Emerich S. Fiala.

**3319** Increased Growth Inhibition and DNA Lesions in Human Colon Adenocarcinoma Cells Treated with Methotrexate or 5-Fluorodeoxyuridine followed by Calmodulin Inhibitors. Ulf Lön n and Sigrid Lönn.

**3324** Role of Protein Kinase C in Phosphorylation of Vinculin in Alimentary Tract Cells. Reuven Reich, Yukihide Iwamot, George R. Martin, James R. Deason, George C. Fuller, and Ruth Miskin.

**3330** Erythropoietin-induced Polycythemia in Athymic Mice following Intravenous Administration of Erythropoietin. Stanley R. Hamilton, Ock Soon Sohn, and Emerich S. Fiala.

**3332** Metabolism of the Z and E Isomers of N-Nitroso-N-methyl-(2-oxopropyl)amine by Rat Hepatocytes. James G. Farrow, Mary L. Stewart, David W. Farnsworth, and Joseph E. Saavedra.


**3340** Role of Methylenetetrahydrofolate Depletion in Methotrexate-mediated Intracellular Thymidylate Synthesis Inhibition in Cultured L1210 Cells. Marlene Bunni, Marion T. Doig, Henry Donato, Y. Kesavan, and David G. Pri est.

**3341** Flow Cytometric Analysis of DNA Ploidy in Canine Mammary Tumors. Gerard R. Rutterman, Cees J. Cornelisse, Nel J. Dijkshoorn, Jan Poortman, and Wim Misdorp.


**3344** Invasiveness in Hepatocyte and Fibroblast Monolayers and Metastatic Potential of T-Cell Hybridomas in Mice. Geertje la Rivière, Cor A. Schipper, John G. Collard, and Ed Roos.

**3345** Transferrin-like Autocrine Growth Factor, Derived from T-Lymphocytes, That Inhibits Normal T-Cell Proliferation. Giovanni Morone, Laura Corbo, Maria Caterina Turco, Rosa Pizzano, M. De Felice, Sandy Bridges, and Salvatore Venuta.


BASIC SCIENCES

Biochemistry and Biophysics

Role of Protein Kinase C in Phosphorylation of Vinculin in Adriamycin-resistant HL-60 Leukemia Cells. Angelo Aquino, Kathleen D. Hartman, Marian C. Knodle, Steven Grant, Kuo-Ping Huang, Chien-Hua Niu, and Robert I. Glazer.


Zinc Metabolism in Ehrlich Cells: Properties of a Metallothionein-like Zinc-binding Protein. Alan J. Kraker, Glenn Krakower, C. Frank Shaw III, David H. Petering, and Justine S. Garvey.

Role of Methyleneetetrahydrofolate Depletion in Methotrexate-mediated Intracellular Thymidylate Synthesis Inhibition in Cultured L1210 Cells. Marlene Bunni, Marion T. Doig, Henry Donato, V. Kesavan, and David G. Priest.


Fibrin-Fibronectin Compounds in Human Ovarian Tumor Asciates and Their Possible Relation to the Tumor Stromal. Olaf Wilhelm, Reimar Hafter, Eva Coppenrath, MaryAnn Pflanz, Manfred Schmitt, Rudolf Babic, Reinhold Linke, Wolfgang Gossner, and Henner Graeff.

Carcinogenesis

Inhibition by Dietary Ethanol of Experimental Colon Carcinogenesis Induced by High-Dose Azoxymethane in F344 Rats. Stanley R. Hamilton, Ock Soon Sohn, and Emeric S. Fiala.


Metabolism of the Z and E Isomers of N-Nitroso-N-methyl-(2-oxopropyl)amine by Rat Hepatocytes. James G. Farrelly, Mary L. Stewart, David W. Farnsworth, and Joseph E. Sauvedra.

Cytidine 5'-Triphosphate-dependent Dolichol Kinase and Dolichol Phosphatase Activities and Levels of Dolichyl Phosphate in Microsomal Fractions from Highly Differentiated Human Hepatomas. Ivan Eggen, Johan Ericsson, and Örjan Tollbom.


Immunology


Motilility and Tumoroidal Activity of Interleukin-2-stimulated Lymphocytes. Stuart Ratner and Gloria H. Heppner.


Molecular Biology and Genetics


Preclinical Pharmacology and Experimental Therapeutics

Increased Growth Inhibition and DNA Lesions in Human Colon Adenocarcinoma Cells Treated with Methotrexate or 5-Fluorodeoxyuridine followed by Calmodulin Inhibitors. Ulf Lönn and Sigrid Lönn.


Tumor Biology


Polyamine Metabolism and Interconversion in NIH 3T3 and rat-tumors NIH 3T3 Cells. Rajabu Pakala, Miriam Kreisel, and Uriel Bachrach.

cis-Diaminedichloroplatinum(II)-resistant Sublines Derived from Two Human Ovarian Tumor Cell Lines. Peter J. K. Kuppen, Hanneke Schuitemaker, Laura J. van't Veer, Ernst A. de Bruijn, Allan T. van Oosterom, and Peter I. Schrier.
Invasiveness in Hepatocyte and Fibroblast Monolayers and Metastatic Potential of T-Cell Hybridomas in Mice. Geertje la Rivière, Cor A. Schipper, John G. Collard, and Ed Roos.

Flow Cytometric Analysis of DNA Ploidy in Canine Mammary Tumors. Gerard R. Rutteman, Cees J. Cornelisse, Nel J. Dijkshoorn, Jan Poortman, and Wim Misdorp.


Induction of Sister Chromatid Exchanges and Chromosomal Aberrations by Busulfan in Philadelphia Chromosome-positive Chronic Myeloid Leukemia and Normal Bone Marrow. Reinhard Becher and Gabriele Prescher.


Site-specific Metastasis of Mouse Melanomas and a Fibrosarcoma in the Brain or Meninges of Syngeneic Animals. Gabriele Shackert and Ishaia J. Fidler.

Hormonal Regulation of CA125 Tumor Marker Expression in Human Ovarian Carcinoma Cells: Inhibition by Glucocorticoids. Beth Y. Karlan, Waheeda Amin, Scott E. Casper, and Bruce A. Littlefield.


Epidemiological


Prediagnostic Serum Hormones and the Risk of Prostate Cancer. Abraham Nomura, Lance K. Heilbrun, Grant N. Stemmermann, and Howard L. Judd.


Meeting Report

Rare Events as Clues to Cancer Etiology: The Eighteenth Annual Symposium of the Princess Takamatsu Cancer Research Fund. Robert W. Miller.

Announcements

Exciting Programs Scheduled for AACR's New Series of Meetings
Future Annual Meetings of the AACR
Collected Perspectives
Calendar of Events

Erratum


Author Index

NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.