CONTENTS†

Asterisks * preceding page numbers refer to studies using human-derived material.

5517 Editorial. Peter N. Magee.
Perspectives in Cancer Research

5518 Genetics of Cancer Predisposition. Marc F. Hansen and Webster K. Cavenee.

Special Lecture

5528 Searching for Magic Bullets: Early Approaches to Chemotherapy—Antifolates, Methotrexate—The Bruce F. Cain Memorial Award Lecture. Thomas H. Jukes.

BASIC SCIENCES


5546 Disposition Characteristics of Mitomycin C-Dextran Conjugate in Normal and Tumor-bearing Muscles of Rabbits. Ryo Atsumi, Kaori Endo, Toshiyuki Kakutani, Yoshinobu Takakura, Mitsuru Hashida, and Hitoshi Sazaki.


5577 Pleiotropic Drug Resistance in Hepatocytes Induced by Carcinogens Administered to Rats. Brian L. Carr.


5590 Synthesis of Nitrite and Nitrate in Murine Macrophage Cell Lines. Dennis J. Stuehr and Michael A. Marletta.


5620 Effects of Chemical Sympathectomy in Neonatal and Adult Mice on C-1300 Neuroblastoma Tumor Growth and Catecholamine Content. Donald W. Fink, Jr., and Bernard L. Mirkin.

5626 Structure and Expression of a Human Class y Glutathione S-Transferase Messenger RNA. Toshiyuki Kano, Masaharu Sakai, and Masami Muramatsu.

5631 Dietary Fat Modulation of Murine Mammary Tumor Metabolism Studied by in Vivo 31P-Nuclear Magnetic Resonance Spectroscopy. Dianne K. Buckman, Kent L. Erickson, and Brian D. Ross.

5637 Differential Uptake, Binding, and Metabolism of Retinoil and Retinoic Acid by 10T1/2 Cells. Joyce Rundhaua, Mary Lou Gubler, Michael I. Sherman, William S. Blaner, and John S. Bertram.

5644 Blood Amino Acid Compartmentation in Mice Bearing Lewis Lung Carcinoma. Santiago Rivera, Francisco J. López-Soriano, Joaquim Azcón-Bieto, and Josep M. Argièls.


5649 Purification and Characterization of Aplysianin E, an Antitumor Factor from Sea Hare Eggs. Jun Kisugi, Hisao Kamiya, and Masatoshi Yamazaki.

5654 Correlation between Drug Uptake and Selective Toxicity of Porfiromycin to Hypoxic EMT6 Cells. Susan R. Keyes, Sara Rockwell, and Alan C. Sartorelli.

*5658 Selective Lack of Intercellular Communication between Transformed and Nontransformed Cells as a Common Property of Chemical and Oncogene Transformation of BALB/c 3T3 Cells. Hiroshi Yamasaki, Monica Hollstein, Marc Mesnil, Nicole Martel, and Anne-Marie Aguelon.


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


Role of Laminin Receptor in Tumor Cell Migration. Ulla M. Wewer, Giulia Tarabottoli, Mark E. Sobel, Reidar Albrechtsen, and Lance A. Liotta.

Induction of Prostatic Carcinomas and Lower Urinary Tract Neoplasms by Combined Treatment of Intact and Castrated Rats with Testosterone Propionate and N-Nitrosobis(2-oxopropyl)amine. Parviz M. Pour and Katherine Stepan.


Frequency and Distribution of Estrogen Receptor-positive Cells in Normal, Nonlactating Human Breast Tissue. O. W. Petersen, P. E. Høyer, and B. van Deurs.

Morphological Transformation, Focus Formation, and Anchorage Independence Induced in Diploid Human Fibroblasts by Expression of a Transfected H-ras Oncogene. Peter J. Hurlin, Dennis G. Fry, Veronica M. Maher, and J. Justin McCormick.


Blood-Brain Barrier Dysfunction in Cats following Recombinant Interleukin-2 Infusion. Mary D. Ellison, John T. Pavlishock, and Randall E. Merchant.

The Epidemiological Studies section contains the first in a series of articles presented at the Fifth Symposium on Epidemiology and Cancer Registries in the Pacific Basin, November 16–21, 1986, Kauai, Hawaii. Other papers resulting from this meeting will be featured in subsequent issues of Cancer Research.

Cancer in First and Second Generation Americans. David B. Thomas and Margaret R. Karagas.


NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.
CONTENTS Arranged by Subject Category

BASIC SCIENCES

Biochemistry and Biophysics


5631 Dietary Fat Modulation of Murine Mammary Tumor Metabolism Studied by in Vivo 31P-Nuclear Magnetic Resonance Spectroscopy. Dianne K. Buckman, Kent L. Erickson, and Brian D. Ross.


5649 Purification and Characterization of Aplysianin E, an Antitumor Factor from Sea Hare Eggs. Jun Kisugi, Hisao Kamiya, and Masatoshi Yamazaki.


Carcinogenesis


5577 Pleiotropic Drug Resistance in Hepatocytes Induced by Carcinogens Administered to Rats. Brian I. Carr.

5590 Synthesis of Nitrite and Nitrate in Murine Macrophage Cell Lines. Dennis J. Stuehr and Michael A. Marletta.

5637 Differential Uptake, Binding, and Metabolism of Retinol and Retinoic Acid by 10T½ Cells. Joyce Rundhaug, Mary Lou Gubler, Michael I. Sherman, William S. Blaner, and John S. Bertram.


5699 Induction of Prostatic Carcinomas and Lower Urinary Tract Neoplasms by Combined Treatment of Intact and Castrated Rats with Testosterone Propionate and N-Nitrososob(2-oxopropyl)amine. Parviz M. Pour and Katherine Stepan.

Immunology


Molecular Biology and Genetics


5752 Morphological Transformation, Focus Formation, and Anchorage Independence Induced in Diploid Human Fibroblasts by Expression of a Transfected H-rras Oncogene. Peter J. Hurlin, Dennis G. Fry, Veronica M. Maher, and Justine McCormick.
Preclinical Pharmacology and Experimental Therapeutics


5546 Disposition Characteristics of Mitomycin C-Dextran Conjugate in Normal and Tumor-bearing Muscles of Rabbits. Ryo Atsumi, Kaori Endo, Toshiyuki Kakutani, Yoshinobu Takakura, Mitsuru Hashida, and Hitoshi Sezaki.

5546 Correlation between Drug Uptake and Selective Toxicity of Porfimermycin to Hypoxic EMT6 Cells. Susan R. Keyes, Sara Rockwell, and Alan C. Sartorelli.


5620 Effects of Chemical Sympathectomy in Neonatal and Adult Mice on C-1300 Neuroblastoma Tumor Growth and Catecholamine Content. Donald W. Fink, Jr., and Bernard L. Mirkin.


5658 Selective Lack of Intercellular Communication between Transformed and Nontransformed Cells as a Common Property of Chemical and Oncogene Transformation of BALB/c 3T3 Cells. Hiroshi Yamasaki, Monica Hollstein, Marc Mesnil, Nicole Martel, and Anne-Marie Aguelon.

5691 Role of Laminin Receptor in Tumor Cell Migration. Ulla M. Wewer, Giulia Taraboletti, Mark E. Sobel, Reidar Albrechtsen, and Lance A. Liotta.


5748 Frequency and Distribution of Estrogen Receptor-positive Cells in Normal, Nonlactating Human Breast Tissue. O. W. Petersen, P. E. Høyer, and B. van Deurs.

Tumor Biology


5748 Frequency and Distribution of Estrogen Receptor-positive Cells in Normal, Nonlactating Human Breast Tissue. O. W. Petersen, P. E. Høyer, and B. van Deurs.

Virology


CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical Studies


5796 Clinical Pharmacokinetics of the Antitumor Drug Navelbine (S'-Noranhdrovinblastine). Roger Rahmani, René Bruno, Athanasios Iliaidis, Roger Favre, Sylvaine Just, Jacques Barbet, and Jean-Paul Cano.


Epidemiological Studies

The Epidemiological Studies section contains the first in a series of articles presented at the Fifth Symposium on Epidemiology and Cancer Registries in the Pacific Basin, November 16–21, 1986, Kauai, Hawaii. Other papers resulting from this meeting will be featured in subsequent issues of Cancer Research.

5771 Cancer in First and Second Generation Americans. David B. Thomas and Margaret R. Karagas.


5806 Announcements

5807 Author Index

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