CONTENTS

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


5794 Accumulation of Genetic Alterations and Progression of Primary Breast Cancer. Takaaki Sato, Futoshi Akiyama, Goi Sakamoto, Fujio Kasumi, and Yusuke Nakamura.

5800 p53 Gene Mutations in Gastric Cancer Metastases and in Gastric Cancer Cell Lines Derived from Metastases. Yukishige Yamada, Teruhiko Yoshida, Kensi Hayashi, Takao Sekiya, Jun Yokota, Setsuo Hirohashi, Katsunori Nakatani, Hiroshi Nagano, Takashi Sugimura, and Masashi Terada.


5817 Common Regions of Deletion on Chromosomes 5q, 6q, and 10q in Accumulation of Genetic Alterations and Progression of Primary Renal Cell Carcinoma. Ryoji Morita, Susumu Sailo, Jiro Ishikawa, Glenn A. Hofmann, Francis L. McCabe, and Randall K. Johnson.


5843 Nitrosamine-induced Cancer: Selective Repair and Conformational Differences between O4-Methylguanine Residues in Different Positions in and around Codon 12 of Rat H-ras. Panagiotis Tatsis, Clive A. Smith, and Peter F. Swann.


5859 Insulin-like Growth Factor I Rapidly Induces Tyrosine Phosphorylation of a M, 150,000 and a M, 160,000 Protein in Highly Metastatic Mouse Colon Carcinoma 26 NL-17 Cells. Takao Yamori, Yumiko Iizuka, Yasuko Takayama, Shigeki Nishiya, Shiinato Ishiwata, Akiko Yamazaki, Toshiro Takatori, and Takashi Tsuruo.

5866 Regulation of Kinesin Expression and Type IV Collagenase Secretion in Invasive Human Prostate PC-3 Tumor Sublines. Mark E. Stearns and Min Wang.

5876 Antitumor Activity of Fab' and IgG-anti-CD22 Immunotoxins in Disseminated Human B Lymphoma Grown in Mice with Severe Combined Immunodeficiency Disease: Effect on Tumor Cells in Extracranal Sites. Maria-Ana Ghetie, James Richardson, Thomas Tucker, Diane Jones, Jonathan W. Uhr, and Ellen S. Vitetta.


5910 Combination Therapy: Lomidamine, Hyperthermia, and Chemotherapy against the RIF-1 Tumor in Vivo. Shoucheng Ning and Mark E. Stearns and Min Wang.

5915 P-Glycoprotein Expression and DNA Topoisomerase I and II Activity in Benign Tumors of the Ovary and in Malignant Tumors of the Ovary, before and after Platinum/Cyclophosphamide Chemotherapy. Ate G. J. van der Zee, Harry Hollema, Steven de Jong, Henk Boonstra, Annette Gouw, Pax H. B. Willemsen, Jan G. Zijlstra, and Elisabeth G. E. de Vries.

5921 Biodistribution and Dosimetry following Infusion of Antibodies Labeled with Large Amounts of 131I. Christopher C. Badger, Jeffrey Davis, Cynthia Nourigat, Zhao Mai Wu, T. Edmund Hui, Darrell R. Fisher, Howard Shulman, Frederick R. Appelbaum, Janet F. Eary, Kenneth A. Krohn, Dana C. Matthews, and Irwin D. Bernstein.
Development of Resistance to the Growth Inhibitory Effects of Transforming Growth Factor $\beta_1$ during the Spontaneous Transformation of Rat Liver Epithelial Cells. Anthony C. Huggett, Patricia A. Ellis, Caroline P. Ford, Lori L. Hampton, Donata Rimoldi, and Snorri S. Thorgeirsson.

Correlation of Chromosome Abnormalities with Histological and Clinical Features in Wilms' and Other Childhood Renal Tumors. Yasuhiro Kaneko, Chieko Homma, Nobuo Maseki, Masaharu Sakurai, and Jun-ichi Hata.


Expression of Mutant $p53$ in Melanoma. Jonathan R. Stretch, Kevin C. Gatter, Elisabeth Ralflkiaer, David P. Lane, and Adrian L. Harris.


Inhibition of Growth of HT-29 Human Colon Cancer Xenografts in Nude Mice by Treatment with Bombesin/Gastrin Releasing Peptide Antagonist (RC-3095). Sinisa Radulovic, Glenn Miller, and Andrew V. Schally.

Cancer Research
VOLUME 51 • NUMBER 21
CONTENTS Arranged by Subject Category

Advances in Brief


6006 Inhibition of Growth of HT-29 Human Colon Cancer Xenografts in Nude Mice by Treatment with Bombesin/Gastrin Releasing Peptide Antagonist (RC-3095). Sinisa Radulovic, Glenn Miller, and Andrew V. Schally.


BASIC SCIENCES


5843 Nitrosamine-induced Cancer: Selective Repair and Conformational Differences between O'-Methylguanine Residues in Different Positions in and around Codon 12 of Rat H-ras. Panagiotis N. Malata, Clive A. Smith, and Peter F. Swann.


5800 p53 Gene Mutations in Gastric Cancer Metastases and in Gastric Cancer Cell Lines Derived from Metastases. Yuji Takeuchi, Hidefumi Yamaoda, Teruhiko Yoshida, Keshi Hayashi, Takao Seki, Jun Yokota, Setsuo Hirohashi, Katsunori Nakatani, Hiroshiie Nakano, Takashi Sugimura, and Masaaki Terada.


5817 Common Regions of Deletion on Chromosomes 5q, 6q, and 10q in Renal Cell Carcinoma. Ryoji Morita, Susumu Saito, Jiro Ishikawa, Osamu Ogawa, Osamu Yoshida, Kazuhiro Yamakawa, and Yusuке Nakamura.

Preclinical Pharmacology and Experimental Therapeutics


5821 Inhibition of Cell Proliferation, Protein Kinase C, and Phorbol Ester-induced expression for Expression by the Dihydropryridine Derivative B859-35. Florian Überall, Karl Maly, Alexander Egle, Wolfgang Doppler, Johann Hofmann, and Hans H. Grunicke.


* Indicates studies using human-derived material.
5910 Combination Therapy: Lonidamine, Hyperthermia, and Chemo-
therapy against the RIF-1 Tumor in Vivo. Shoucheng Ning and
George M. Hahn.

*5915 P-Glycoprotein Expression and DNA Topoisomerase I and II
Activity in Benign Tumors of the Ovary, before and after Platinum/Cyclophosphamide
Chemotherapy. Ate G. J. van der Zee, Harry Hollema, Steven de
Jong, Henk Boonstra, Annette Gouw, Pax H. B. Willemsen,
Jan G. Zijlstra, and Elisabeth G. E. de Vries.

5921 Biodistribution and Dosimetry following Infusion of Antibodies
Labeled with Large Amounts of 131I. Christopher C. Badger,
Jeffrey Davis, Cynthia Nourigat, Zhao Mai Wu, T. Edmond Hui,
Darrell R. Fisher, Howard Shulman, Frederick R. Appelbaum,
Janei F. Eary, Kenneth A. Krohn, Dana C. Matthews, and Irwin
D. Bernstein.

5980 Inhibitory Effect of Bombesin/Gastrin-releasing Peptide Antago-
nist RC-3095 and High Dose of Somatostatin analogue RC-160
on Nitrosamine-induced Pancreatic Cancers in Hamsters. Károly
Szepesházi, Andrew V. Schally, Ren-Zhi Cai, Sinisa Radulovic,
Slobodan Milovanovic, and Balazs Szoke.

*5987 Norethindrone Scatters Silver-stained Nucleolar Organizer Re-
gions of Ishikawa Cells. Yasuhiro Yokoyama, Kenji Niwa, and
Teruhiko Tamaya.

Tumor Biology

*5859 Insulin-like Growth Factor I Rapidly Induces Tyrosine Phosphor-
ylation of a M, 150,000 and a M, 160,000 Protein in Highly
Metastatic Mouse Colon Carcinoma 26 NL-17 Cells. Takao
Yamori, Yumiko Iizuka, Yasuko Takayama, Shigeki Nishiya,
Shintaro Iwashita, Akiko Yamazaki, Toshiro Takatori, and
Takashi Tsuruo.

*5866 Regulation of Kinesin Expression and Type IV Collagenase
Secretion in Invasive Human Prostate PC-3 Tumor Sublines.
Mark E. Stearns and Min Wang.

*5881 α-Interferon Down-Regulates Epidermal Growth Factor Receptors
on Renal Carcinoma Cells: Relation to Cellular Responsiveness to
the Antiproliferative Action of α-Interferon. Barbara L. Eisenkraft,
David M. Nanus, Anthony P. Albino, and Lawrence M. Pfeffer.

*5937 Correlation of Chromosome Abnormalities with Histological and
Clinical Features in Wilms' and Other Childhood Renal Tumors.
Yasuhiro Kaneko, Chieko Homma, Nobuo Maseki, Masaharu
Sakurai, and Jun-ichi Hata.

5943 Coexpression of Cytokeratins Characteristic for Myoepithelial and
Luminal Cell Lineages in Rat 13762NF Mammary Adeno-
carcinoma Tumors and Their Spontaneous Metastases. R. B.
Lichtner, J. A. Julian, S. M. North, S. R. Glasser, and G. L.
Nicolson.

*5951 Involvement of Transforming Growth Factor α/Epidermal Growth
Factor Receptor Autocrine Growth Mechanism in an Ovarian
Cancer Cell Line in Vivo. Ken-ichiro Morishige, Hirohsa
Kurachi, Kyoko Amemiyi, Hiroshi Adachi, Masaki Inoue, Akira
Miyake, Osamu Tanizawa, and Yasuhioko Sakoyama.

*5956 Importance of Transforming Growth Factor α/Epidermal Growth
Factor Receptor Autocrine Growth Mechanism in an Ovarian
Cancer Cell Line in Vivo. Hirohsa Kurachi, Ken-ichiro
Morishige, Kyoko Amemiyi, Hiroshi Adachi, Kenji Hirota, Akira
Miyake, and Osamu Tanizawa.

Virology

*5876 Antitumor Activity of Fab' and IgG-anti-CD22 Immunotoxins in
Disseminated Human B Lymphoma Grown in Mice with Severe
Combined Immunodeficiency Disease: Effect on Tumor Cells in
Extranodal Sites. Maria-Aga Ghetie, James Richardson, Thomas
Tucker, Diane Jones, Jonathan W. Uhr, and Ellen S. Vitetta.

CLINICAL AND EPIDEMIOLOGICAL
INVESTIGATIONS

Clinical

5888 Glycosylation at the Fab Portion of Myeloma Immunoglobulin G
and Increased Fucosylated Biantennary Sugar Chains: Structural
Analysis by High-Performance Liquid Chromatography and
Antibody-Lectin Enzyme Immunoassay Using Lens culinaris
Agglutinin. Noriaki Kinoshita, Masao Ohno, Tetsuo Nishiuara,
Shigeru Fujii, Atushi Nishikawa, Yukare Kawakami, Naofumi
Uozumi, and Naoyuki Taniguchi.

5960 Three-Step Monoclonal Antibody Tumor Targeting in Carcinoem-
bryonic Antigen-positive Patients. G. Paganeli, P. Magnani, F.
Zito, E. Villa, F. Sudati, L. Lopalco, C. Rossetti, M. Malcovati,
F. Chioriero, E. Seccamani, A. G. Siccardi, and F. Fazio.

6014 Announcements

Sixty-Third Annual Meeting of the AACR
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
National Cancer Institute Announces Availability of Study Sets
of Histological Slides of Rodent Tumors
Recent Death
Calendar of Events

6017 Author Index

NOTE: AACR forms available in the back of this issue—
• Application for Active and Corresponding Membership
• Application for Associate Membership

Also available in the back of this issue—
GUIDELINES FOR SUBMITTING DISKS TO
AACR PUBLICATIONS