CONTENTS§

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

Perspectives in Cancer Research

- 6119 Mammalian O⁶-Alkylguanine-DNA Alkyltransferase: Regulation and Importance in Response to Alkylating Carcinogenic and Therapeutic Agents. Anthony E. Pegg.
 - Special Lecture
- 6130 Critical Factors in the Biology of Human Cancer Metastasis: Twenty-eighth G. H. A. Clowes Memorial Award Lecture. Isaiah J. Fidler.
- *6139 K-ras Activation in Neoplasms of the Human Female Reproductive Tract. Takayuki Enomoto, Masaki Inoue, Alan O. Perantoni, Naoki Terakawa, Osamu Tanizawa, and Jerry M. Rice.
- *6146 Two Chromosomal Locations for Human Ornithine Decarboxylase Gene Sequences and Elevated Expression in Colorectal Neoplasia. Diane M. Radford, Hiroshi Nakai, Roger L. Eddy, Linda L. Haley, Mary G. Byers, W. Michael Henry, David D. Lawrence, Carl W. Porter, and Thomas B. Shows.
- 6154 Topoisomerase II-mediated DNA Damage of Episomes in Tumor-bearing Mice. Emily B. Cullinan, Loretta S. Gawron, Youcef M. Rustum, and Terry A. Beerman.
- *6158 Selective Immunosuppressive Action of a Factor Produced by Colon Cancer Cells. Ellen C. Ebert, Arthur I. Roberts, Dennis Devereux, and Hideaki Nagase.
- *6162 Tumor Promoter-stimulated M, 92,000 Gelatinase Secreted by Normal and Malignant Human Cells: Isolation and Characterization of the Enzyme from HT1080 Tumor Cells. Ute M. Moll, Gary L. Youngleib, Karen B. Rosinski, and James P. Quigley.
- *6171 Rearrangements in the Human T-Cell-Receptor α-Chain Locus in Patients with Adult T-Cell Leukemia Carrying Translocations Involving Chromosome 14q11. Masaharu Isobe, Naoki Sadamori, Giadomenico Russo, Shoichi Shimizu, Shunji Yamamori, Takahiro Itoyama, Yasuaki Yamada, Shuichi Ikeda, Michito Ichimaru, Jacob Kagan, and Carlo M. Croce.
 - 6176 Comparison of DNA Aneuploidy of Primary and Metastatic Spontaneous Canine Osteosarcomas. Michael H. Fox, Leslie W. Armstrong, Steven J. Withrow, Barbara E. Powers, Susan M. LaRue, Rodney C. Straw, and Edward L. Gillette.
 - 6179 Roles of Transforming Growth Factor β in Inhibition of Androgen-induced Growth of Shionogi Carcinoma Cells in Serum-free Medium. Hiroshi Yamanishi, Norio Nonomura, Akira Tanaka, Toshiyuki Yasui, Yasuko Nishizawa, Keishi Matsumoto, and Bunzo Sato.
- *6184 Independent Expression and Cellular Processing of M, 72,000
 Type IV Collagenase and Interstitial Collagenase in Human Tumorigenic Cell Lines. Peter D. Brown, Anna T. Levy, Inger M. K. Margulies, Lance A. Liotta, and William G. Stetler-Stevenson.
 - 6192 Induction of Covalent DNA Modifications and Micronucleated Erythrocytes by 4-Nitroquinoline 1-Oxide in Adult and Fetal Mice. Lee-Jane W. Lu, Jennifer R. Baxter, Mian-Ying Wang, Barbara L. Harper, Fumiyo Tasaka, and Kohfuku Kohda.

- 6199 Effect of Heat Treatment on Tumor Cells and Antitumor Effector Cells. Keiichi Mise, Norimichi Kan, Takashi Okino, Masaki Nakanishi, Kohei Satoh, Yasufumi Teramura, Seiji Yamasaki, Kazuhisa Ohgaki, and Takayoshi Tobe.
- *6203 Dose-dependent Neurotoxicity of High-Dose Busulfan in Children: A Clinical and Pharmacological Study. Gilles Vassal, Alain Deroussent, Olivier Hartmann, Dominique Challine, Ellen Benhamou, Dominique Valteau-Couanet, Laurence Brugières, Chantal Kalifa, Alain Gouyette, and Jean Lemerle.
- *6208 T47D_{CO} Cells, Genetically Unstable and Containing Estrogen Receptor Mutations, Are a Model for the Progression of Breast Cancers to Hormone Resistance. Mark L. Graham II, Nancy L. Krett, Louise A. Miller, Kimberly K. Leslie, David F. Gordon, William M. Wood, Lisa L. Wei, and Kathryn B. Horwitz.
 - 6218 Mechanism of Diethyldithiocarbamate Modulation of Murine Bone Marrow Toxicity. Therese K. Schmalbach and Richard F. Borch.
 - 6222 Expression of Rat Microsomal Epoxide Hydrolase Gene during Liver Chemical Carcinogenesis. Shinichi Kondo, Brian I. Carr, Kenkichi Takagi, Ting H. Huang, Yun-Mei Chou, Kazushige Yokoyama, and Keiichi Itakura.
- *6229 An Enzyme-linked Immunosorbent Assay for Cancer Procoagulant and Its Potential as a New Tumor Marker. Stuart G. Gordon and Barbara A. Cross.
- 6235 Role of the AKR Gene Locus AKv-1 in Susceptibility to Chemical Induction of Thymic Lymphomas. Frederick F. Becker.
- 6238 Desensitization and Resensitization of Rat Pituitary Tumor Cells in Long-Term Culture to the Effects of the Somatostatin Analogue SMS 201-995 on Cell Growth and Prolactin Secretion. Jan W. Koper, Leo J. Hofland, Peter M. van Koetsveld, Fred den Holder, and Steven W. J. Lamberts.
- 6243 Modulation of the Immune Response to Transplanted Tumors in Rats by Selective Depletion of Neutrophils in Vivo Using a Monoclonal Antibody: Abrogation of Specific Transplantation Resistance to Chemical Carcinogen-induced Syngeneic Tumors by Selective Depletion of Neutrophils in Vivo. Yasuhiko Midorikawa, Takao Yamashita, and Fujiro Sendo.
- *6248 Regulation of Carcinoembryonic Antigen Expression in Different Human Colorectal Tumor Cells by Interferon-γ. Fiorella Guadagni, Patricia L. Witt, Paul F. Robbins, Jeffrey Schlom, and John W. Greiner.
 - 6256 Requirements for the Generation of a Lyt-2* T-Cell Proliferative Response to a Syngeneic Tumor in the Absence of L3T4* T-Cells.

 Donald E. Kern, Jay P. Klarnet, Martin A. Cheever, and Philip D. Greenberg.
- *6264 In Vitro Assessment of the Effects of Granulocyte-Macrophage Colony-stimulating Factor on Primary Human Tumors and Derived Lines. Richard S. Foulke, Martha H. Marshall, Paul P. Trotta, and Daniel D. Von Hoff.

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

- *6268 Combinations of Retinoic Acid with Either Sodium Butyrate, Dimethyl Sulfoxide, or Hexamethylene Bisacetamide Synergistically Induce Differentiation of the Human Myeloid Leukemia Cell Line HL60. Theodore R. Breitman and Ruyi He.
- *6274 Medical History and Primary Liver Cancer. Carlo La Vecchia, Eva Negri, Barbara D'Avanzo, Peter Boyle, and Silvia Franceschi.
 - 6278 Cathepsin B to Cysteine Proteinase Inhibitor Balance in Metastatic Cell Subpopulations Isolated from Murine Tumors. Jurij Rozhin, Angel P. Gomez, Grace H. Ziegler, Kevin K. Nelson, Young Sook Chang, Dunne Fong, James M. Onoda, Kenneth V. Honn, and Bonnie F. Sloane.
 - 6285 Evidence That High Mannose Glycopeptides Are Able to Functionally Interact with Recombinant Tumor Necrosis Factor and Recombinant Interleukin 1. Andrew Muchmore, Jean Decker, Alan Shaw, and Paul Wingfield.
- *6291 Expression of Human α-Actinin in Human Hepatocellular Carcinoma. Masaki Nishiyama, Mehmet Ozturk, Mark Frohlich, Ken-ichi Mafune, Glenn Steele, Jr., and Jack R. Wands.
- *6295 Combinations of Anti-Transferrin Receptor Monoclonal Antibodies Inhibit Human Tumor Cell Growth in Vitro and in Vivo: Evidence for Synergistic Antiproliferative Effects. Suhaila White, Raymond Taetle, Paul A. Seligman, Mary Rutherford, and Ian S. Trowbridge.
- *6302 Phase I Trial of Intraperitoneal Recombinant Interleukin-2/Lymphokine-activated Killer Cells in Patients with Ovarian Cancer.

 James A. Stewart, Jerome L. Belinson, Ann L. Moore, John A. Dorighi, Barbara W. Grant, Larry D. Haugh, John D. Roberts, Richard J. Albertini, and Richard F. Branda.
- *6311 Increased Lysis of Melanoma by in Vivo-elicited Human Lymphokine-activated Killer Cells after Addition of Antiganglioside Antibodies in Vitro. W. Harel, H. Shau, C. G. Hadley, A. C. Morgan, Jr., R. A. Reisfeld, D. A. Cheresh, and M. S. Mitchell.
- *6316 Antisense Inhibition of Single Copy N-myc Expression Results in Decreased Cell Growth without Reduction of c-myc Protein in a Neuroepithelioma Cell Line. Angelo Rosolen, Luke Whitesell, Naohiko Ikegaki, Roger H. Kennett, and Leonard M. Neckers.
- *6323 Megakaryocytic Differentiation of K562 Cells Is Associated with Changes in the Cytoskeletal Organization and the Pattern of Chromatographically Distinct Forms of Phosphotyrosyl-specific Protein Phosphatases. T. Martin Bütler, Andrew Ziemiecki, and Robert R. Friis.
- *6330 Genetic Origin of a Trophoblastic Choriocarcinoma. R. S. K. Chaganti, Prasad R. K. Koduru, Ranajit Chakraborty, and Walter B. Jones.
- *6334 Growth Adaptation to Methotrexate of HT-29 Human Colon Carcinoma Cells Is Associated with Their Ability to Differentiate into Columnar Absorptive and Mucus-secreting Cells.

 Thécla Lesuffleur, Alain Barbat, Elisabeth Dussaulx, and Alain Zweibaum.
- *6344 In Situ Distribution of the β-Subunit of Platelet-derived Growth Factor Receptor in Nonneoplastic Tissue and in Soft Tissue Tumors. Wilbur A. Franklin, William H. Christison, Margo Colley, Anthony G. Montag, Janet K. Stephens, and Charles E. Hart.
 - 6349 Genetic Instability and the Acquisition of Metastatic Ability by Rat Mammary Cancer Cells following v-H-ras Oncogene Transfection. Tomohiko Ichikawa, Natasha Kyprianou, and John T. Isaacs.

- *6358 Tumor-associated Antigens Common to Humans and Chemically Induced Colonic Tumors of the Rat. Jayant D. Shetye, Carlos A. Rubio, Ulrika Harmenberg, James Ware, Annika Duvander, and Håkan T. Mellstedt.
- *6364 Differential Spectrum of Expression of Neural Cell Adhesion Molecule Isoforms and L1 Adhesion Molecules on Human Neuroectodermal Tumors. Dominique F. Figarella-Branger, Pascale L. Durbec, and Geneviève N. Rougon.
- *6371 Effect of Liposome Composition and Other Factors on the Targeting of Liposomes to Experimental Tumors: Biodistribution and Imaging Studies. Alberto Gabizon, David C. Price, John Huberty, Robert S. Bresalier, and Demetrios Papahadjopoulos.
- *6379 Enhanced Therapeutic Efficacy against an Ovarian Tumor Xenograft of Immunotoxins Used in Conjunction with Recombinant \(\alpha\)-Interferon. J. W. Pearson, E. Hedrick, W. E. Fogler, R. L. Bull, D. K. Ferris, C. W. Riggs, R. H. Wiltrout, G. Sivam, A. C. Morgan, E. Groves, and D. L. Longo.
- *6389 Antiproliferative and Cytotoxic Effects of Single and Combined Treatment with Tumor Necrosis Factor α and/or α Interferon on a Human Renal Cell Carcinoma Xenotransplanted into nu/nu Mice: Cell Kinetic Studies. Heinz Baisch, Ullrich Otto, and Günter Klöppel.
- *6396 Induction of Cells with Phenotypic Features of Neuronal Cells by Treatment with Dibutyryl Cyclic Adenosine 3',5'-Monophosphate in a Human Parotid Gland Adenocarcinoma Cell Line in Culture. Shinichi Nagamine, Tetsuo Yanagawa, Takashi Bando, Yoshiaki Yura, Hideo Yoshida, and Mitsunobu Sato.
- *6405 Murine Monoclonal Antibodies to Colon-specific Antigen p. David V. Gold, Mary Ann Nocera, Richard Stephens, and David M. Goldenberg.
- *6410 11p13-15 Is a Specific Region of Chromosomal Rearrangement in Gastric and Esophageal Adenocarcinomas. Eduardo Rodriguez, Pulivarthi H. Rao, Marc Ladanyi, Nasser Altorki, Anthony P. Albino, David P. Kelsen, Suresh C. Jhanwar, and R. S. K. Chaganti.
- *6417 Gene Amplification in Gastric and Esophageal Adenocarcinomas.

 Jane Houldsworth, Carlos Cordon-Cardo, Marc Ladanyi, David
 P. Kelsen, and R. S. K. Chaganti.
- *6423 Immunohistochemical and Pharmacokinetic Characterization of the Site-specific Immunoconjugate CYT-356 Derived from Antiprostate Monoclonal Antibody 7E11-C5. A. Dwight Lopes, Wendy L. Davis, Maurice J. Rosenstraus, Albert J. Uveges, and Steven C. Gilman.

Meeting Report

- 6430 Steroid Receptors, Transcription Factors, and Gene Expression:
 AACR Special Conference in Cancer Research. Larry Denner,
 Hongjun Ji, Russell D. Owen, Gregory J. Kato, Christine L.
 Clarke, Hae-Young Lee, and Uttam K. Pati.
- 6436 Announcements

Eighty-second Annual Meeting of the AACR
Call for Nominations for the Scientific Awards of the AACR
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
American Cancer Society Call for Grant Applications—
Nutrition and Cancer
Recent Death

6439 Author Index

Calendar of Events

NOTE: AACR forms available in the back of this issue-

- Application for Active and Corresponding Membership
- · Application for Associate Membership

Cancer Research

VOLUME 50 • NUMBER 19

CONTENTS Arranged by Subject Category

Perspectives in Cancer Research

6119 Mammalian O⁶-Alkylguanine-DNA Alkyltransferase: Regulation and Importance in Response to Alkylating Carcinogenic and Therapeutic Agents. Anthony E. Pegg.

Special Lecture

6130 Critical Factors in the Biology of Human Cancer Metastasis: Twenty-eighth G. H. A. Clowes Memorial Award Lecture. Isaiah J. Fidler.

BASIC SCIENCES

Biochemistry and Biophysics

- *6162 Tumor Promoter-stimulated M, 92,000 Gelatinase Secreted by Normal and Malignant Human Cells: Isolation and Characterization of the Enzyme from HT1080 Tumor Cells. Ute M. Moll, Gary L. Youngleib, Karen B. Rosinski, and James P. Quigley.
- *6184 Independent Expression and Cellular Processing of M, 72,000
 Type IV Collagenase and Interstitial Collagenase in Human Tumorigenic Cell Lines. Peter D. Brown, Anna T. Levy, Inger M. K. Margulies, Lance A. Liotta, and William G. Stetler-Stevenson.
 - 6278 Cathepsin B to Cysteine Proteinase Inhibitor Balance in Metastatic Cell Subpopulations Isolated from Murine Tumors. Jurij Rozhin, Angel P. Gomez, Grace H. Ziegler, Kevin K. Nelson, Young Sook Chang, Dunne Fong, James M. Onoda, Kenneth V. Honn, and Bonnie F. Sloane.

Carcinogenesis

- *6158 Selective Immunosuppressive Action of a Factor Produced by Colon Cancer Cells. Ellen C. Ebert, Arthur I. Roberts, Dennis Devereux, and Hideaki Nagase.
 - 6192 Induction of Covalent DNA Modifications and Micronucleated Erythrocytes by 4-Nitroquinoline 1-Oxide in Adult and Fetal Mice. Lee-Jane W. Lu, Jennifer R. Baxter, Mian-Ying Wang, Barbara L. Harper, Fumiyo Tasaka, and Kohfuku Kohda.
 - 6235 Role of the AKR Gene Locus AKv-1 in Susceptibility to Chemical Induction of Thymic Lymphomas. Frederick F. Becker.

Endocrinology

- 6179 Roles of Transforming Growth Factor β in Inhibition of Androgen-induced Growth of Shionogi Carcinoma Cells in Serum-free Medium. Hiroshi Yamanishi, Norio Nonomura, Akira Tanaka, Toshiyuki Yasui, Yasuko Nishizawa, Keishi Matsumoto, and Bunzo Sato.
- *6208 T47D_{CO} Cells, Genetically Unstable and Containing Estrogen Receptor Mutations, Are a Model for the Progression of Breast Cancers to Hormone Resistance. Mark L. Graham II, Nancy L. Krett, Louise A. Miller, Kimberly K. Leslie, David F. Gordon, William M. Wood, Lisa L. Wei, and Kathryn B. Horwitz.
 - 6238 Desensitization and Resensitization of Rat Pituitary Tumor Cells in Long-Term Culture to the Effects of the Somatostatin Analogue SMS 201-995 on Cell Growth and Prolactin Secretion. Jan W. Koper, Leo J. Hofland, Peter M. van Koetsveld, Fred den Holder, and Steven W. J. Lamberts.

* Indicates studies using human-derived material.

Immunology

- 6199 Effect of Heat Treatment on Tumor Cells and Antitumor Effector Cells. Keiichi Mise, Norimichi Kan, Takashi Okino, Masaki Nakanishi, Kohei Satoh, Yasufumi Teramura, Seiji Yamasaki, Kazuhisa Ohgaki, and Takayoshi Tobe.
- *6229 An Enzyme-linked Immunosorbent Assay for Cancer Procoagulant and Its Potential as a New Tumor Marker. Stuart G. Gordon and Barbara A. Cross.
 - 6243 Modulation of the Immune Response to Transplanted Tumors in Rats by Selective Depletion of Neutrophils in Vivo Using a Monoclonal Antibody: Abrogation of Specific Transplantation Resistance to Chemical Carcinogen-induced Syngeneic Tumors by Selective Depletion of Neutrophils in Vivo. Yasuhiko Midorikawa, Takao Yamashita, and Fujiro Sendo.
- *6248 Regulation of Carcinoembryonic Antigen Expression in Different Human Colorectal Tumor Cells by Interferon-γ. Fiorella Guadagni, Patricia L. Witt, Paul F. Robbins, Jeffrey Schlom, and John W. Greiner.
- 6256 Requirements for the Generation of a Lyt-2+ T-Cell Proliferative Response to a Syngeneic Tumor in the Absence of L3T4+ T-Cells.

 Donald E. Kern, Jay P. Klarnet, Martin A. Cheever, and Philip D. Greenberg.
- 6285 Evidence That High Mannose Glycopeptides Are Able to Functionally Interact with Recombinant Tumor Necrosis Factor and Recombinant Interleukin 1. Andrew Muchmore, Jean Decker, Alan Shaw, and Paul Wingfield.
- *6311 Increased Lysis of Melanoma by in Vivo-elicited Human Lymphokine-activated Killer Cells after Addition of Antiganglioside Antibodies in Vitro. W. Harel, H. Shau, C. G. Hadley, A. C. Morgan, Jr., R. A. Reisfeld, D. A. Cheresh, and M. S. Mitchell.
- *6364 Differential Spectrum of Expression of Neural Cell Adhesion Molecule Isoforms and L1 Adhesion Molecules on Human Neuroectodermal Tumors. Dominique F. Figarella-Branger, Pascale L. Durbec, and Geneviève N. Rougon.
- *6405 Murine Monoclonal Antibodies to Colon-specific Antigen p. David V. Gold, Mary Ann Nocera, Richard Stephens, and David M. Goldenberg.

Molecular Biology and Genetics

- *6139 K-ras Activation in Neoplasms of the Human Female Reproductive Tract. Takayuki Enomoto, Masaki Inoue, Alan O. Perantoni, Naoki Terakawa, Osamu Tanizawa, and Jerry M. Rice.
- *6146 Two Chromosomal Locations for Human Ornithine Decarboxylase Gene Sequences and Elevated Expression in Colorectal Neoplasia. Diane M. Radford, Hiroshi Nakai, Roger L. Eddy, Linda L. Haley, Mary G. Byers, W. Michael Henry, David D. Lawrence, Carl W. Porter, and Thomas B. Shows.
- *6171 Rearrangements in the Human T-Cell-Receptor α-Chain Locus in Patients with Adult T-Cell Leukemia Carrying Translocations Involving Chromosome 14q11. Masaharu Isobe, Naoki Sadamori, Giadomenico Russo, Shoichi Shimizu, Shunji Yamamori, Takahiro Itoyama, Yasuaki Yamada, Shuichi Ikeda, Michito Ichimaru, Jacob Kagan, and Carlo M. Croce.

- 6222 Expression of Rat Microsomal Epoxide Hydrolase Gene during Liver Chemical Carcinogenesis. Shinichi Kondo, Brian I. Carr, Kenkichi Takagi, Ting H. Huang, Yun-Mei Chou, Kazushige Yokoyama, and Keiichi Itakura.
- *6330 Genetic Origin of a Trophoblastic Choriocarcinoma. R. S. K. Chaganti, Prasad R. K. Koduru, Ranajit Chakraborty, and Walter B. Jones.
- *6410 11p13-15 Is a Specific Region of Chromosomal Rearrangement in Gastric and Esophageal Adenocarcinomas. Eduardo Rodriguez, Pulivarthi H. Rao, Marc Ladanyi, Nasser Altorki, Anthony P. Albino, David P. Kelsen, Suresh C. Jhanwar, and R. S. K. Chaganti.
- *6417 Gene Amplification in Gastric and Esophageal Adenocarcinomas.

 Jane Houldsworth, Carlos Cordon-Cardo, Marc Ladanyi, David P. Kelsen, and R. S. K. Chaganti.

Preclinical Pharmacology and Experimental Therapeutics

- 6154 Topoisomerase II-mediated DNA Damage of Episomes in Tumor-bearing Mice. Emily B. Cullinan, Loretta S. Gawron, Youcef M. Rustum, and Terry A. Beerman.
- 6218 Mechanism of Diethyldithiocarbamate Modulation of Murine Bone Marrow Toxicity. Therese K. Schmalbach and Richard F. Borch.
- *6264 In Vitro Assessment of the Effects of Granulocyte-Macrophage Colony-stimulating Factor on Primary Human Tumors and Derived Lines. Richard S. Foulke, Martha H. Marshall, Paul P. Trotta, and Daniel D. Von Hoff.
- *6268 Combinations of Retinoic Acid with Either Sodium Butyrate, Dimethyl Sulfoxide, or Hexamethylene Bisacetamide Synergistically Induce Differentiation of the Human Myeloid Leukemia Cell Line HL60. Theodore R. Breitman and Ruyi He.
- *6295 Combinations of Anti-Transferrin Receptor Monoclonal Antibodies Inhibit Human Tumor Cell Growth in Vitro and in Vivo: Evidence for Synergistic Antiproliferative Effects. Suhaila White, Raymond Taetle, Paul A. Seligman, Mary Rutherford, and Ian S. Trowbridge.
- *6371 Effect of Liposome Composition and Other Factors on the Targeting of Liposomes to Experimental Tumors: Biodistribution and Imaging Studies. Alberto Gabizon, David C. Price, John Huberty, Robert S. Bresalier, and Demetrios Papahadjopoulos.
- *6379 Enhanced Therapeutic Efficacy against an Ovarian Tumor Xenograft of Immunotoxins Used in Conjunction with Recombinant α-Interferon. J. W. Pearson, E. Hedrick, W. E. Fogler, R. L. Bull, D. K. Ferris, C. W. Riggs, R. H. Wiltrout, G. Sivam, A. C. Morgan, E. Groves, and D. L. Longo.
- *6389 Antiproliferative and Cytotoxic Effects of Single and Combined Treatment with Tumor Necrosis Factor α and/or α Interferon on a Human Renal Cell Carcinoma Xenotransplanted into nu/nu Mice: Cell Kinetic Studies. Heinz Baisch, Ullrich Otto, and Günter Klöppel.
- *6423 Immunohistochemical and Pharmacokinetic Characterization of the Site-specific Immunoconjugate CYT-356 Derived from Antiprostate Monoclonal Antibody 7E11-C5. A. Dwight Lopes, Wendy L. Davis, Maurice J. Rosenstraus, Albert J. Uveges, and Steven C. Gilman.

Tumor Biology

*6291 Expression of Human α-Actinin in Human Hepatocellular Carcinoma. Masaki Nishiyama, Mehmet Ozturk, Mark Frohlich, Ken-ichi Mafune, Glenn Steele, Jr., and Jack R. Wands.

- *6316 Antisense Inhibition of Single Copy N-myc Expression Results in Decreased Cell Growth without Reduction of c-myc Protein in a Neuroepithelioma Cell Line. Angelo Rosolen, Luke Whitesell, Naohiko Ikegaki, Roger H. Kennett, and Leonard M. Neckers.
- *6323 Megakaryocytic Differentiation of K562 Cells Is Associated with Changes in the Cytoskeletal Organization and the Pattern of Chromatographically Distinct Forms of Phosphotyrosyl-specific Protein Phosphatases. T. Martin Bütler, Andrew Ziemiecki, and Robert R. Friis.
- *6334 Growth Adaptation to Methotrexate of HT-29 Human Colon Carcinoma Cells Is Associated with Their Ability to Differentiate into Columnar Absorptive and Mucus-secreting Cells. Thecla Lesuffleur, Alain Barbat, Elisabeth Dussaulx, and Alain Zweibaum.
- *6344 In Situ Distribution of the β-Subunit of Platelet-derived Growth Factor Receptor in Nonneoplastic Tissue and in Soft Tissue Tumors. Wilbur A. Franklin, William H. Christison, Margo Colley, Anthony G. Montag, Janet K. Stephens, and Charles E. Hart.
- 6349 Genetic Instability and the Acquisition of Metastatic Ability by Rat Mammary Cancer Cells following v-H-ras Oncogene Transfection. Tomohiko Ichikawa, Natasha Kyprianou, and John T. Isaacs.
- *6358 Tumor-associated Antigens Common to Humans and Chemically Induced Colonic Tumors of the Rat. Jayant D. Shetye, Carlos A. Rubio, Ulrika Harmenberg, James Ware, Annika Duvander, and Håkan T. Mellstedt.
- *6396 Induction of Cells with Phenotypic Features of Neuronal Cells by Treatment with Dibutyryl Cyclic Adenosine 3',5'-Monophosphate in a Human Parotid Gland Adenocarcinoma Cell Line in Culture. Shinichi Nagamine, Tetsuo Yanagawa, Takashi Bando, Yoshiaki Yura, Hideo Yoshida, and Mitsunobu Sato.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical

- 6176 Comparison of DNA Aneuploidy of Primary and Metastatic Spontaneous Canine Osteosarcomas. Michael H. Fox, Leslie W. Armstrong, Steven J. Withrow, Barbara E. Powers, Susan M. LaRue, Rodney C. Straw, and Edward L. Gillette.
- 6203 Dose-dependent Neurotoxicity of High-Dose Busulfan in Children: A Clinical and Pharmacological Study. Gilles Vassal, Alain Deroussent, Olivier Hartmann, Dominique Challine, Ellen Benhamou, Dominique Valteau-Couanet, Laurence Brugières, Chantal Kalifa, Alain Gouyette, and Jean Lemerle.
- 6302 Phase I Trial of Intraperitoneal Recombinant Interleukin-2/Lymphokine-activated Killer Cells in Patients with Ovarian Cancer. James A. Stewart, Jerome L. Belinson, Ann L. Moore, John A. Dorighi, Barbara W. Grant, Larry D. Haugh, John D. Roberts, Richard J. Albertini, and Richard F. Branda.

Epidemiological

6274 Medical History and Primary Liver Cancer. Carlo La Vecchia, Eva Negri, Barbara D'Avanzo, Peter Boyle, and Silvia Franceschi.

Meeting Report

6430 Steroid Receptors, Transcription Factors, and Gene Expression:
AACR Special Conference in Cancer Research. Larry Denner,
Hongjun Ji, Russell D. Owen, Gregory J. Kato, Christine L.
Clarke, Hae-Young Lee, and Uttam K. Pati.

6436 Announcements

Eighty-second Annual Meeting of the AACR Call for Nominations for the Scientific Awards of the AACR AACR Special Conferences in Cancer Research Future Annual Meetings of the AACR American Cancer Society Call for Grant Applications—Nutrition and Cancer
Recent Death
Calendar of Events

6439 Author Index

NOTE: AACR forms available in the back of this issue-

- Application for Active and Corresponding Membership
- Application for Associate Membership



Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

50 (19)

Cancer Res 1990;50:6119-6438.

Updated version Access the most recent version of this article at:

http://cancerres.aacrjournals.org/content/50/19.citation

E-mail alerts Sign up to receive free email-alerts related to this article or journal.

Reprints andSubscriptions
To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, use this link

http://cancerres.aacrjournals.org/content/50/19.citation.

Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC)

Rightslink site.