



CONTENTS*

Advances in Brief begin on p. 5391.

- 5135 **Microscopic Localization of Sterically Stabilized Liposomes in Colon Carcinoma-bearing Mice.** S. K. Huang, K-D. Lee, K. Hong, D. S. Friend, and D. Papahadjopoulos.
- 5144 **Micropharmacology of Monoclonal Antibodies in Solid Tumors: Direct Experimental Evidence for a Binding Site Barrier.** Malik Juweid, Ronald Neumann, Chaing Paik, Miguel J. Perez-Bacete, Jun Sato, William van Osdol, and John N. Weinstein.
- 5154 **P-Glycoprotein Expression during Tumor Progression in the Rat Liver.** Grace Bradley, Radhakant Sharma, Srinivasan Rajalakshmi, and Victor Ling.
- 5162 **Development of Liver Tumors in Transforming Growth Factor α Transgenic Mice.** Gang-Hong Lee, Glenn Merlino, and Nelson Fausto.
- 5171 **Molecular and Genetic Analysis of Liver Oncogenesis in Transforming Growth Factor α Transgenic Mice.** Hitoshi Takagi, Richard Sharp, Christine Hammermeister, Tamra Goodrow, Matthews O. Bradley, Nelson Fausto, and Glenn Merlino.
- 5178 **Establishment of the Human BSMZ Breast Cancer Cell Line, Which Overexpresses the *erbB-2* and *c-myc* Genes.** Michiko Watanabe, Hisako Tanaka, Minoru Kamada, James H. Okano, Hiroki Takahashi, Ken Uchida, Akira Iwamura, Mikio Zeniya, and Tsuneya Ohno.
- 5183 **Adoptive Transfer of V β 2-deleting Activity with Host Cells from Mice Implanted with C4 Preneoplastic Hyperplastic Alveolar Nodules.** Wei-Zen Wei, Hong Wang, Richard Ficsor-Jacobs, and Robert Pauley.
- 5190 **Loss of Epithelial Markers and Acquisition of Vimentin Expression in Adriamycin- and Vinblastine-resistant Human Breast Cancer Cell Lines.** Connie L. Sommers, Susan E. Heckford, Jeffrey M. Skerker, Peter Worland, Jeffrey A. Torri, Erik W. Thompson, Stephen W. Byers, and Edward P. Gelmann.
- 5198 **Cathepsin D as a Prognostic Indicator for Node-negative Breast Cancer Patients Using Both Immunoassays and Enzymatic Assays.** Timothy E. Kute, Zhi-Ming Shao, N. Keith Sugg, Rena T. Long, Gregory B. Russell, and L. Douglas Case.
- 5204 **Insulin-like Growth Factor Binding Proteins in Human Breast Cancer Tissue.** Fredrika Pekonen, Tuulikki Nyman, Vesa Iivesmäki, and Seppo Partanen.
- 5208 **Product of the Steel Locus Can Replace Leukemic Cell Interaction.** Julio R. Cáceres-Cortés and Trang Hoang.
- 5213 **Flow Cytometric Detection of Drugs Altering the DNA Methylation Pattern.** Denis S. F. Biard, Michel Maratrat, Véronique Thybaud, Céline Melcion, and Alain Sarasin.
- 5219 **Quantitative Imaging of a Radiotherapeutic Drug, Na₂B₁₂H₁₁SH, at Subcellular Resolution in Tissue Cultures Using Ion Microscopy.** Xiaohui Zha, Walter A. Ausserer, and George H. Morrison.
- 5223 **Expression and Functional Role of the p75 Interleukin 2 Receptor Chain on Leukemic Hairy Cells.** Livio Trentin, Renato Zambello, Claudia Benati, Marco Cassatella, Carlo Agostini, Pietro Bulian, Fausto Adami, Giuseppe Carra, Giovanni Pizzolo, and Gianpietro Semenzato.
- 5229 **Amplification of Genes within the Chromosome 11q13 Region Is Indicative of Poor Prognosis in Patients with Operable Breast Cancer.** Ed Schuurung, Els Verhoeven, Harm van Tinteren, Johannes L. Peterse, Brigitte Nunnink, Frederic B. J. M. Thunnissen, Peter Devilee, Cees J. Cornelisse, Marc J. van de Vijver, Wolter J. Mooi, and Rob J. A. M. Michalides.
- 5235 **Tumor Progression *in Vivo*: Increased Soybean Agglutinin Lectin Binding, N-Acetylgalactosamine-specific Lectin Expression, and Liver Metastasis Potential.** Martin R. Reese and Donna A. Chow.
- 5244 **Homogeneously Staining Region in Anthracycline-resistant HL-60/AR Cells not Associated with MDR1 Amplification.** James E. Gervasoni, Jr., Robert N. Taub, Ming Tsung Yu, Dorothy Warburton, Marlene Sabbath, Stephanie Gilleran, Donald L. Coppock, John D'Alessandri, Sindu Krishna, Michelle Rosado, Michael A. Baker, Jose Lutzky, Eva R. Chanda, James H. Gerlach, Michael J. Pinkoski, Susan P. C. Cole, and Alexander A. Hindenburg.
- 5250 **Antisense-mediated Specific Inhibition of P120 Protein Expression Prevents G₁- to S-Phase Transition.** Anna Fonagy, Carol Swiderski, Melissa Dunn, and James W. Freeman.
- 5257 **Epigenetic Silencing of the DNA Repair Enzyme O⁶-Methylguanine-DNA Methyltransferase in Mex⁻ Human Cells.** Sarah Cairns-Smith and Peter Karran.
- 5264 **CD24, a Signal-transducing Molecule Expressed on Human B Cells, Is a Major Surface Antigen on Small Cell Lung Carcinomas.** David Jackson, Robert Waibel, Erich Weber, John Bell, and Rolf A. Stahel.
- 5271 **Enhanced Sensitivity of Human Colon Tumor Cell Lines *in Vitro* in Response to Thermochemoimmunotherapy.** Jim Klostergaard, Elena Leroux, Zahid H. Siddik, Mojgan Khodadadian, and Stephen P. Tomasovic.
- 5278 **Endogenous Tumor Necrosis Factor Exerts Its Protective Function Intracellularly against the Cytotoxicity of Exogenous Tumor Necrosis Factor.** Tetsuro Okamoto, Naoki Watanabe, Naofumi Yamauchi, Yasushi Tsuji, Naoki Tsuji, Yoshinori Itoh, Hiroshi Neda, and Yoshiro Niitsu.
- 5282 **Selenoperoxidase-mediated Cytoprotection against Merocyanine 540-sensitized Photoperoxidation and Photokilling of Leukemia Cells.** Fubao Lin, Peter G. Geiger, and Albert W. Girotti.
- 5291 **p53 Mutations in Breast Cancer.** Christopher Coles, Alison Condie, Udi Chetty, C. Michael Steel, H. John Evans, and Jane Prosser.
- 5299 **Phosphorous Metabolite and Cell Cycle Kinetic Response of Two Human Squamous Cell Carcinomas to Radiation.** Srinivasan Vijayakumar, Lech Czerski, Anthony Majors, Rafael Valenzuela, Mike Beckett, Ralph Weichselbaum, and Thian Ng.

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

- 5307 **Highly Sensitive, Specific Detection of *O*⁶-Methylguanine, *O*⁴-Methylthymine, and *O*⁴-Ethylthymine by the Combination of High-Performance Liquid Chromatography Prefractionation, ³²P Postlabeling, and Immunoprecipitation.** Ho-il Kang, Chieko Konishi, Gertrud Eberle, Manfred F. Rajewsky, Toshio Kuroki, and Nam-ho Huh.
- 5313 **Putrescine-dependent Invasive Capacity of Rat Ascites Hepatoma Cells.** Yoshiyuki Ashida, Jun-ichi Kido, Fumiyo Kinoshita, Mizuho Nishino, Kiyoko Shinkai, Hitoshi Akedo, and Hideo Inoue.
- 5317 **Involvement of the Spleen in Preleukemic Development of a Murine Retrovirus-induced Promonocytic Leukemia.** Kathryn Nason-Burchenal and Linda Wolff.
- 5323 **Alterations of the *p*53 Gene in Human Primary Cervical Carcinoma with and without Human Papillomavirus Infection.** Masami Fujita, Masaki Inoue, Osamu Tanizawa, Seiichi Iwamoto, and Takayuki Enomoto.
- 5329 **Marked Enhancement of Rat Urinary Bladder Carcinogenesis by Heat-killed *Escherichia coli*.** Masashi Yamamoto, Howard H. Wu, Hitoshi Momose, Alfred Rademaker, and Ryoichi Oyasu.
- 5334 **Expression of the Class VI Intermediate Filament Nestin in Human Central Nervous System Tumors.** Jonas Dahlstrand, V. Peter Collins, and Urban Lendahl.
- 5342 **Simian Virus 40 Large T Antigen Directed by Transcriptional Elements of the Human Surfactant Protein C Gene Produces Pulmonary Adenocarcinomas in Transgenic Mice.** Kathryn A. Wikenheiser, Jean C. Clark, R. Ilona Linnoila, Mildred T. Stahlman, and Jeffrey A. Whitsett.
- 5353 **Differential Inhibition of the Epidermal Growth Factor-, Platelet-derived Growth Factor-, and Protein Kinase C-mediated Signal Transduction Pathways by the Staurosporine Derivative CGP 41251.** Elisabeth Andrejauskas-Buchdunger and Urs Regenass.
- 5359 **Steady-State Messenger RNA and Activity Correlates with Sensitivity to *N*¹,*N*¹²-Bis(ethyl)spermine in Human Cell Lines Representing the Major Forms of Lung Cancer.** Robert A. Casero, Jr., Amy R. Mank, Lei Xiao, Jeffrey Smith, Raymond J. Bergeron, and Paul Celano.
- 5364 **Association between Hepatitis C Virus and Hepatocellular Carcinoma Using Assays Based on Structural and Nonstructural Hepatitis C Virus Peptides.** Xenophon Zavitsanos, Angelos Hatzakis, Evangelia Kaklamani, Anastasia Tzonou, Nektaria Toupadaki, Caryn Broeksma, Jurgen Chrispeels, Hugo Troonen, Stephanos Hadziyannis, Chung-cheng Hsieh, Harvey Alter, and Dimitrios Trichopoulos.
- 5368 **Frequent Loss of Heterozygosity for Loci on Chromosome 8p in Hepatocellular Carcinoma, Colorectal Cancer, and Lung Cancer.** Mitsuru Emi, Yoshiyuki Fujiwara, Toshifusa Nakajima, Eiju Tsuchiya, Hitoshi Tsuda, Setsuo Hirohashi, Yoshiharu Maeda, Kouji Tsuruta, Michiko Miyaki, and Yusuke Nakamura.
- 5373 **Cyclophosphamide Resistance in Medulloblastoma.** Henry S. Friedman, O. Michael Colvin, Scott H. Kaufmann, Susan M. Ludeman, Nancy Bullock, Darell D. Bigner, and Owen W. Griffith.
- 5379 **Monovalent Immunotoxin Containing Truncated Form of *Pseudomonas* Exotoxin as Potent Antitumor Agent.** Waldemar Debinski and Ira Pastan.
- 5386 **Effects of Tamoxifen Adjuvant Therapy and a Low-Fat Diet on Serum Binding Proteins and Estradiol Bioavailability in Postmenopausal Breast Cancer Patients.** David P. Rose, Rowan T. Chlebowski, Jeanne M. Connolly, Lovell A. Jones, and Ernst L. Wynder.

ADVANCES IN BRIEF

- 5391 **Postvaccinal Sarcomas in the Cat: Epidemiology and Electron Probe Microanalytical Identification of Aluminum.** Mattie J. Hendrick, Michael H. Goldschmidt, Frances S. Shofer, Yun-Yu Wang, and Andrew P. Somlyo.
- 5395 **A Synthetic Antagonist to Laminin Inhibits the Formation of Osteolytic Metastases by Human Melanoma Cells in Nude Mice.** Masamichi Nakai, Gregory R. Mundy, Paul J. Williams, Brendan Boyce, and Toshiyuki Yoneda.
- 5400 **Activation of Omental Milky Spots and Milky Spot Macrophages by Intraperitoneal Administration of a Streptococcal Preparation, OK-432.** Masataka Shimotsuna, Max W. Simpson-Morgan, and Toshio Takahashi.
- 5403 **Reduced Expression of the Low Affinity Nerve Growth Factor Receptor in Benign and Malignant Human Prostate Tissue and Loss of Expression in Four Human Metastatic Prostate Tumor Cell Lines.** Beth R. Pflug, Makoto Onoda, John H. Lynch, and Daniel Djakiew.
- 5407 ***bcl-2* Gene Transfer Increases Relative Resistance of S49.1 and WEHI7.2 Lymphoid Cells to Cell Death and DNA Fragmentation Induced by Glucocorticoids and Multiple Chemotherapeutic Drugs.** Toshiyuki Miyashita and John C. Reed.
- 5412 ***In Vivo* and *In Vitro* Characteristics of Interleukin 6-transfected B16 Melanoma Cells.** Wen H. Sun, Regina A. Kreisle, Anthony W. Phillips, and William B. Ershler.
- 5416 **An Ovarian Tumor Marker with Homology to Vaccinia Virus Contains an IgV-like Region and Multiple Transmembrane Domains.** Ian G. Campbell, Paul S. Freemont, William Foulkes, and John Trowsdale.

5421 Announcements

Eighty-Fourth Annual Meeting of the AACR
AACR Special Conferences in Cancer Research
Calendar of Events

5424 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

ADVANCES IN BRIEF

- 5391 **Postvaccinal Sarcomas in the Cat: Epidemiology and Electron Probe Microanalytical Identification of Aluminum.** Mattie J. Hendrick, Michael H. Goldschmidt, Frances S. Shofer, Yun-Yu Wang, and Andrew P. Somlyo.
- 5395 **A Synthetic Antagonist to Laminin Inhibits the Formation of Osteolytic Metastases by Human Melanoma Cells in Nude Mice.** Masamichi Nakai, Gregory R. Mundy, Paul J. Williams, Brendan Boyce, and Toshiyuki Yoneda.
- 5400 **Activation of Omental Milky Spots and Milky Spot Macrophages by Intraperitoneal Administration of a Streptococcal Preparation, OK-432.** Masataka Shimotsuma, Max W. Simpson-Morgan, and Toshio Takahashi.
- 5403 **Reduced Expression of the Low Affinity Nerve Growth Factor Receptor in Benign and Malignant Human Prostate Tissue and Loss of Expression in Four Human Metastatic Prostate Tumor Cell Lines.** Beth R. Pflug, Makoto Onoda, John H. Lynch, and Daniel Djakiew.
- 5407 **bcl-2 Gene Transfer Increases Relative Resistance of S49.1 and WEHI7.2 Lymphoid Cells to Cell Death and DNA Fragmentation Induced by Glucocorticoids and Multiple Chemotherapeutic Drugs.** Toshiyuki Miyashita and John C. Reed.
- 5412 **In Vivo and in Vitro Characteristics of Interleukin 6-transfected B16 Melanoma Cells.** Wen H. Sun, Regina A. Kreisler, Anthony W. Phillips, and William B. Ershler.
- 5416 **An Ovarian Tumor Marker with Homology to Vaccinia Virus Contains an IgV-like Region and Multiple Transmembrane Domains.** Ian G. Campbell, Paul S. Freemont, William Foulkes, and John Trowsdale.

BASIC SCIENCES

Biochemistry and Biophysics

- 5135 **Microscopic Localization of Sterically Stabilized Liposomes in Colon Carcinoma-bearing Mice.** S. K. Huang, K-D. Lee, K. Hong, D. S. Friend, and D. Papahadjopoulos.
- 5219 **Quantitative Imaging of a Radiotherapeutic Drug, Na₂B₁₂H₁₁SH, at Subcellular Resolution in Tissue Cultures Using Ion Microscopy.** Xiaohui Zha, Walter A. Ausserer, and George H. Morrison.
- 5282 **Selenoperoxidase-mediated Cytoprotection against Merocyanine 540-sensitized Photoperoxidation and Photokilling of Leukemia Cells.** Fubao Lin, Peter G. Geiger, and Albert W. Girotti.

Carcinogenesis

- 5154 **P-Glycoprotein Expression during Tumor Progression in the Rat Liver.** Grace Bradley, Radhakant Sharma, Srinivasan Rajalakshmi, and Victor Ling.
- 5213 **Flow Cytometric Detection of Drugs Altering the DNA Methylation Pattern.** Denis S. F. Biard, Michel Maratrat, Véronique Thybaud, Céline Melcion, and Alain Sarasin.
- 5291 **p53 Mutations in Breast Cancer.** Christopher Coles, Alison Condie, Udi Chetty, C. Michael Steel, H. John Evans, and Jane Prosser.

- 5307 **Highly Sensitive, Specific Detection of O⁶-Methylguanine, O⁴-Methylthymine, and O⁴-Ethylthymine by the Combination of High-Performance Liquid Chromatography Prefractionation, ³²P Postlabeling, and Immunoprecipitation.** Ho-il Kang, Chieko Konishi, Gertrud Eberle, Manfred F. Rajewsky, Toshio Kuroki, and Nam-ho Huh.
- 5329 **Marked Enhancement of Rat Urinary Bladder Carcinogenesis by Heat-killed *Escherichia coli*.** Masashi Yamamoto, Howard H. Wu, Hitoshi Momose, Alfred Rademaker, and Ryoichi Oyasu.

Immunology

- 5144 **Micropharmacology of Monoclonal Antibodies in Solid Tumors: Direct Experimental Evidence for a Binding-Site Barrier.** Malik Juweid, Ronald Neumann, Chaing Paik, Miguel J. Perez-Bacete, Jun Sato, William van Osdol, and John N. Weinstein.
- 5183 **Adoptive Transfer of Vβ2-deleting Activity with Host Cells from Mice Implanted with C4 Preneoplastic Hyperplastic Alveolar Nodules.** Wei-Zen Wei, Hong Wang, Richard Ficsor-Jacobs, and Robert Pauley.
- 5264 **CD24, a Signal-transducing Molecule Expressed on Human B Cells, Is a Major Surface Antigen on Small Cell Lung Carcinomas.** David Jackson, Robert Waibel, Erich Weber, John Bell, and Rolf A. Stahel.
- 5271 **Enhanced Sensitivity of Human Colon Tumor Cell Lines in Vitro in Response to Thermochemoimmunotherapy.** Jim Klostergaard, Elena Leroux, Zahid H. Siddik, Mojgan Khodadadian, and Stephen P. Tomasovic.
- 5278 **Endogenous Tumor Necrosis Factor Exerts Its Protective Function Intracellularly against the Cytotoxicity of Exogenous Tumor Necrosis Factor.** Tetsuro Okamoto, Naoki Watanabe, Naofumi Yamauchi, Yasushi Tsuji, Naoki Tsuji, Yoshinori Itoh, Hiroshi Neda, and Yoshiro Niitsu.

Molecular Biology and Genetics

- 5250 **Antisense-mediated Specific Inhibition of P120 Protein Expression Prevents G₁- to S-Phase Transition.** Anna Fonagy, Carol Swiderski, Melissa Dunn, and James W. Freeman.
- 5257 **Epigenetic Silencing of the DNA Repair Enzyme O⁶-Methylguanine-DNA Methyltransferase in Mex⁻ Human Cells.** Sarah Cairns-Smith and Peter Karran.
- 5368 **Frequent Loss of Heterozygosity for Loci on Chromosome 8p in Hepatocellular Carcinoma, Colorectal Cancer, and Lung Cancer.** Mitsuru Emi, Yoshiyuki Fujiwara, Toshifusa Nakajima, Eiju Tsuchiya, Hitoshi Tsuda, Setsuo Hirohashi, Yoshiharu Maeda, Kouji Tsuruta, Michiko Miyaki, and Yusuke Nakamura.

Preclinical Pharmacology and Experimental Therapeutics

- 5244 **Homogeneously Staining Region in Anthracycline-resistant HL-60/AR Cells not Associated with MDR1 Amplification.** James E. Gervasoni, Jr., Robert N. Taub, Ming Tsung Yu, Dorothy Warburton, Marlene Sabbath, Stephanie Gilleran, Donald L. Coppock, John D'Alessandri, Sindu Krishna, Michelle Rosado, Michael A. Baker, Jose Lutzky, Eva R. Chanda, James H. Gerlach, Michael J. Pinkoski, Susan P. C. Cole, and Alexander A. Hindenburg.
- 5353 **Differential Inhibition of the Epidermal Growth Factor-, Platelet-derived Growth Factor-, and Protein Kinase C-mediated Signal Transduction Pathways by the Staurosporine Derivative CGP 41251.** Elisabeth Andrejaskas-Buchdunger and Urs Regenass.

- 5373 Cyclophosphamide Resistance in Medulloblastoma. Henry S. Friedman, O. Michael Colvin, Scott H. Kaufmann, Susan M. Ludeman, Nancy Bullock, Darell D. Bigner, and Owen W. Griffith.
- 5379 Monovalent Immunotoxin Containing Truncated Form of *Pseudomonas* Exotoxin as Potent Antitumor Agent. Waldemar Debinski and Ira Pastan.

Tumor Biology

- 5162 Development of Liver Tumors in Transforming Growth Factor α Transgenic Mice. Gang-Hong Lee, Glenn Merlino, and Nelson Fausto.
- 5171 Molecular and Genetic Analysis of Liver Oncogenesis in Transforming Growth Factor α Transgenic Mice. Hitoshi Takagi, Richard Sharp, Christine Hammermeister, Tamra Goodrow, Matthews O. Bradley, Nelson Fausto, and Glenn Merlino.
- 5178 Establishment of the Human BSMZ Breast Cancer Cell Line, Which Overexpresses the *erbB-2* and *c-myc* Genes. Michiko Watanabe, Hisako Tanaka, Minoru Kamada, James H. Okano, Hiroki Takahashi, Ken Uchida, Akira Iwamura, Mikio Zeniya, and Tsuneya Ohno.
- 5190 Loss of Epithelial Markers and Acquisition of Vimentin Expression in Adriamycin- and Vinblastine-resistant Human Breast Cancer Cell Lines. Connie L. Sommers, Susan E. Heckford, Jeffrey M. Skerker, Peter Worland, Jeffrey A. Torri, Erik W. Thompson, Stephen W. Byers, and Edward P. Gelmann.
- 5208 Product of the Steel Locus Can Replace Leukemic Cell Interaction. Julio R. Cáceres-Cortés and Trang Hoang.
- 5223 Expression and Functional Role of the p75 Interleukin 2 Receptor Chain on Leukemic Hairy Cells. Livio Trentin, Renato Zambello, Claudia Benati, Marco Cassatella, Carlo Agostini, Pietro Bulian, Fausto Adamsi, Giuseppe Carra, Giovanni Pizzolo, and Gianpietro Semenzato.
- 5235 Tumor Progression *in Vivo*: Increased Soybean Agglutinin Lectin Binding, *N*-Acetylgalactosamine-specific Lectin Expression, and Liver Metastasis Potential. Martin R. Reese and Donna A. Chow.
- 5299 Phosphorous Metabolite and Cell Cycle Kinetic Response of Two Human Squamous Cell Carcinomas to Radiation. Srinivasan Vijayakumar, Lech Czerski, Anthony Majors, Rafael Valenzuela, Mike Beckett, Ralph Weichselbaum, and Thian Ng.
- 5313 Putrescine-dependent Invasive Capacity of Rat Ascites Hepatoma Cells. Yoshiyuki Ashida, Jun-ichi Kido, Fumiyo Kinoshita, Mizuho Nishino, Kiyoko Shinkai, Hitoshi Akedo, and Hideo Inoue.
- 5342 Simian Virus 40 Large T Antigen Directed by Transcriptional Elements of the Human Surfactant Protein C Gene Produces Pulmonary Adenocarcinomas in Transgenic Mice. Kathryn A. Wikenheiser, Jean C. Clark, R. Iona Linnoila, Mildred T. Stahlman, and Jeffrey A. Whitsett.
- 5359 Steady-State Messenger RNA and Activity Correlates with Sensitivity to *N*¹,*N*¹²-Bis(ethyl)spermine in Human Cell Lines Representing the Major Forms of Lung Cancer. Robert A. Casero, Jr., Amy R. Mank, Lei Xiao, Jeffrey Smith, Raymond J. Bergeron, and Paul Celano.

Virology

- 5317 Involvement of the Spleen in Preleukemic Development of a Murine Retrovirus-induced Promonocytic Leukemia. Kathryn Nason-Burchenal and Linda Wolff.
- 5323 Alterations of the *p53* Gene in Human Primary Cervical Carcinoma with and without Human Papillomavirus Infection. Masami Fujita, Masaki Inoue, Osamu Tanizawa, Seiichi Iwamoto, and Takayuki Enomoto.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical

- 5198 Cathepsin D as a Prognostic Indicator for Node-negative Breast Cancer Patients Using Both Immunoassays and Enzymatic Assays. Timothy E. Kute, Zhi-Ming Shao, N. Keith Sugg, Rena T. Long, Gregory B. Russell, and L. Douglas Case.
- 5204 Insulin-like Growth Factor Binding Proteins in Human Breast Cancer Tissue. Fredrika Pekonen, Tuulikki Nyman, Vesa Ilvesmäki, and Seppo Partanen.
- 5229 Amplification of Genes within the Chromosome 11q13 Region Is Indicative of Poor Prognosis in Patients with Operable Breast Cancer. Ed Schuurin, Els Verhoeven, Harm van Tinteren, Johannes L. Peterse, Brigitte Nunnink, Frederic B. J. M. Thunnissen, Peter Devilee, Cees J. Cornelisse, Marc J. van de Vijver, Wolter J. Mooi, and Rob J. A. M. Michalides.
- 5334 Expression of the Class VI Intermediate Filament Nestin in Human Central Nervous System Tumors. Jonas Dahlstrand, V. Peter Collins, and Urban Lendahl.
- 5386 Effects of Tamoxifen Adjuvant Therapy and a Low-Fat Diet on Serum Binding Proteins and Estradiol Bioavailability in Postmenopausal Breast Cancer Patients. David P. Rose, Rowan T. Chlebowski, Jeanne M. Connolly, Lovell A. Jones, and Ernst L. Wynder.

Epidemiological

- 5364 Association between Hepatitis C Virus and Hepatocellular Carcinoma Using Assays Based on Structural and Nonstructural Hepatitis C Virus Peptides. Xenophon Zavitsanos, Angelos Hatzakis, Evangelia Kaklamani, Anastasia Tzonou, Nektaria Toupadaki, Caryn Broeksma, Jurgen Chrispeels, Hugo Troonen, Stephanos Hadziyannis, Chung-cheng Hsieh, Harvey Alter, and Dimitrios Trichopoulos.

5421 Announcements

Eighty-Fourth Annual Meeting of the AACR
AACR Special Conferences in Cancer Research
Calendar of Events

5424 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

Cancer Research

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

52 (19)

Cancer Res 1992;52:5135-5423.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/52/19.citation>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions 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/52/19.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.