

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 25, Number 3B, May-June 2005

Contents

Experimental Studies

- WP-1034, A Novel JAK-STAT Inhibitor, with Proapoptotic and Antileukemic Activity in Acute Myeloid Leukemia (AML). S. FADERL, A. FERRAJOLI, D. HARRIS, Q. VAN, W. PRIEBE, Z. ESTROV (Houston, TX, USA) 1841
- Functional Role of CD105 in TGF- β 1 Signalling in Murine and Human Endothelial Cells. K. WARRINGTON, M. CHANTAL HILLARBY, C. LI, M. LETARTE, S. KUMAR (Manchester, UK; Toronto, Ont., Canada) 1851
- NLCQ-1 (NSC 709257) in Combination with Radiation Against Human Glioma U251 Xenografts. M.V. PAPAPOPOULOU, W.D. BLOOMER, M.G. HOLLINGSHEAD (Evanston, IL; Frederick, MD, USA)..... 1865
- Iressa (ZD 1839) Inhibits Phosphorylation of Three Different Downstream Signal Transducers in Head and Neck Cancer (SCCHN). M. HAMBEK, M. BAGHI, H. BAUMAUN, K. STREBHARD, O. ADUNKA, W. GSTÖTTNER, R. KNECHT (Frankfurt, Germany)..... 1871
- The Cytotoxic Effect of Two Chemotypes of Essential Oils from the Fruits of *Angelica archangelica* L. S. SIGURDSSON, H.M. ÖGMUNSDOTTIR, S. GUDBJARNASON (Reykjavik, Iceland) 1877
- Down-regulation of Skp2 is Correlated with p27-associated Cell Cycle Arrest Induced by Phenylacetate in Human Prostate Cancer Cells. T. SHIBAHARA, T. ONISHI, O.E. FRANCO, K. ARIMA, Y. SUGIMURA (Tsu, Mie, Japan) 1881
- Development of a Modified Hollow Fibre Assay for Studying Agents Targeting the Tumour Neovasculature. S.D. SHNYDER, J. HASAN, P.A. COOPER, E. PILARINOU, E. JUBB, G.C. JAYSON, M.C. BIBBY (Bradford; Manchester, UK; Tallahassee, FL, USA) 1889

Contents continued on the back cover

Her-2/neu Expression in Breast Cancer – A Comparison of Different Diagnostic Methods. P. BENÖHR, V. HENKEL, R. SPEER, U. VOGEL, K. SOTLAR, B. AYDENIZ, A. REISER, H. NEUBAUER, K. TABITI, D. WALLWIENER, S.E. CLARE, R. KUREK (<i>Göttingen; Tübingen, Germany; Indianapolis, IN, USA</i>).....	1895
Membranous Expression and Prognostic Implications of Epidermal Growth Factor Receptor Protein in Human Renal Cell Cancer. A.S. MERSEBURGER, J. HENNENLOTTER, P. SIMON, S. KRUCK, E. KOCH, M. HORSTMANN, U. KUEHS, R. KÜFER, A. STENZL, M.A. KUCZYK (<i>Tübingen; Ulm, Germany</i>)	1901
Pamidronate and 1,24(S)-Dihydroxyvitamin D ₂ Synergistically Inhibit the Growth of Myeloma, Breast and Prostate Cancer Cells. D.P. WIGINGTON, S.A. STRUGNELL, J.C. KNUTSON (<i>Middleton, WI, USA</i>)	1909
Centrosome Impairments and Consequent Cytokinesis Defects are Possible Mechanisms of Taxane Drugs. J. ZHU, E.C. BEATTIE, Y. YANG, H.-J. WANG, J.-Y. SEO, L.-X. YANG (<i>San Francisco, CA, USA</i>)	1919
Telomerase Activity as a Marker of Invasive Ductal Breast Carcinomas on FNABs and Relationship to Other Prognostic Variables. A. KALOGERAKI, M. KAFOUSI, P. IEROMONACHOU, E. GIANNIKAKI, T. VREKOUSSIS, O. ZORAS, D. TSIFTSIS, E. STATHOPOULOS (<i>Heraklion, Greece</i>)	1927
* The MLL Gene and Translocations Involving Chromosomal Band 11q23 in Acute Leukemia. M. DE BRAEKELEER, F. MOREL, M.-J. LE BRIS, A. HERRY, N. DOUET-GUILBERT (<i>Brest, France</i>)	1931
Intracellular Glutathione Levels Determine Cell Sensitivity to Apoptosis Induced by the Antineoplastic Agent N-(4-hydroxyphenyl)retinamide. M.-C. MORALES, G. PÉREZ-YARZA, N. NIETO-REMENTERIA, M.-D. BOYANO, M. JANGI, R. ATENCIA, A. ASUMENDI (<i>Bizkaia, Spain</i>)	1945
<i>In Vitro</i> and <i>In Vivo</i> Characterizations of Tetrandrine on the Reversal of P-Glycoprotein-mediated Drug Resistance to Paclitaxel. X. ZHU, M. SUI, W. FAN (<i>Charleston, SC, USA</i>)	1953
Depletion of CD8+ or CD4+ Lymphocytes Enhances Susceptibility to Transplantable Ultraviolet Radiation-induced Skin Tumours. A. VANBUSKIRK, T.M. OBERYSZYN, D.F. KUSEWITT (<i>Columbus, OH, USA</i>).....	1963
Anticancer Activity of a Lectin-rich Mistletoe Extract Injected Intratumorally into Human Pancreatic Cancer Xenografts. M. ROSTOCK, R. HUBER, T. GREINER, P. FRITZ, R. SCHEER, J. SCHUELER, H.H. FIEBIG (<i>Freiburg; Stuttgart; Pforzheim, Germany</i>).....	1969
High Hydrostatic Pressure-induced Cell Death in Human Chondrocytes and Chondrosarcoma Cells. F.-D. NAAL, K. MENGELE, J. SCHAUWECKER, H. GOLLWITZER, L. GERDESMEYER, U. REUNING, W. MITTELMEIER, R. GRADINGER, M. SCHMITT, P. DIEHL (<i>Muenchen; Rostock, Germany</i>).....	1977
Cell Cycle Arrest and Apoptosis Induced by SART-1 Gene Transduction. M. HOSOKAWA, R. KADOTA, S. SHICHIJO, K. ITOH, I. DMITRIEV, V. KRASNYKH, D.T. CUIEL, Y. TAKUE, H. WAKASUGI, S. TAKASHIMA, Y. HEIKE (<i>Tokyo; Ehime; Fukuoka, Japan; Birmingham, AL, USA</i>)	1983
Bioactivities of Anastasia Black (Russian Sweet Pepper). Y. SHIRATAKI, M. KAWASE, H. SAKAGAMI, H. NAKASHIMA, S. TANI, T. TANAKA, Y. SOHARA, Z. SCHELZ, J. MOLNAR, N. MOTOHASHI (<i>Saitama; Kanagawa; Tokyo, Japan; Szeged, Hungary</i>)	1991
P53 Expression in Small Cell Carcinoma of the Urinary Bladder: Biological and Prognostic Implications. XI. WANG, T.D. JONES, G.T. MACLENNAN, X.J. YANG, A. LOPEZ-BELTRAN, J.N. EBLE, M.O. KOCH, H. LIN, L.A. BALDRIDGE, M. TRETIAKOVA, L. CHENG (<i>Indianapolis, IN; Cleveland, OH; Chicago, IL; New Haven, CT, USA; Cordoba, Spain</i>).....	2001
Does c-erbB-2 Play a Role in the First Steps of Lung Carcinogenesis? A.-P. MEERT, B. MARTIN, J.-M. VERDEBOUT, V. NINANE, J.-P. SCULIER (<i>Brussels, Belgium</i>)	2005

Quantitative Analysis of <i>BRCA1</i> , <i>BRCA2</i> and <i>Hmsh2</i> mRNA Expression in Colorectal Lieberkóhnien Adenocarcinomas and Matched Normal Mucosa: Relationship with Cellular Proliferation. L. LE CORRE, C. VISSAC-SABATIER, N. CHALABI, Y.-J. BIGNON, A. DAVER, A. CHASSEVENT, D.J. BERNARD-GALLON (<i>Clermont-Ferrand; Angers, France</i>).....	2009
Targeting of Focal Adhesion Kinase by Flavonoids and Small-interfering RNAs Reduces Tumor Cell Migration Ability. Y.-T. HUANG, L.-T. LEE, P.-P.H LEE, Y.-S. LIN, M.-T. LEE (<i>Kaohsiung; Chia-I; Taipei, Taiwan</i>)	2017
Prognostic Significance of T Helper 1 and 2 and T Cytotoxic 1 and 2 Cells in Patients with Non-small Cell Lung Cancer. N. ITO, Y. SUZUKI, Y. TANIGUCHI, K. ISHIGURO, H. NAKAMURA, S. OHGI (<i>Tottori, Japan</i>)	2027
Tumor-specific Cytotoxicity of 3,5-Dibenzoyl-1,4-dihydropyridines. S. REZA M.D. MORSHED, K. HASHIMOTO, Y. MUROTANI, M. KAWASE, A. SHAH, K. SATOH, H. KIKUCHI, H. NISHIKAWA, J. MAKI, H. SAKAGAMI (<i>Saitama; Tokyo; Kanagawa, Japan; Rajkot, India</i>)	2033
* Nuclear Phospholipase C Signaling Through Type 1 IGF Receptor and its Involvement in Cell Growth and Differentiation. I. FAENZA, A.M. BILLI, M. YUNG FOLLO, R. FIUME, A.M. MARTELLI, L. COCCO, L. MANZOLI (<i>Bologna, Italy</i>)	2039
Influence of the Structure of New Anthracycline Antibiotics on their Biological Properties. M. WASOWSKA, I. OSZCZAPOWICZ, J. WIETRZYK, A. OPOLSKI, J. MADEJ, S. DZIMIRA, J. OSZCZAPOWICZ (<i>Warsaw; Wroclaw, Poland</i>)	2043
Oncolytic Herpesvirus with Secretable Angiostatic Proteins in the Treatment of Human Lung Cancer Cells. C.-T. YANG, Y.-C. LIN, C.-L. LIN, J. LU, X. BU, Y.-H. TSAI, W.W.-G JIA (<i>Chiayi; Taoyuan, Taiwan; Vancouver, BC, Canada</i>).....	2049
Tumor-specificity and Apoptosis-inducing Activity of Stilbenes and Flavonoids. S. ALI CHOWDHURY, K. KISHINO, R. SATOH, K. HASHIMOTO, H. KIKUCHI, H. NISHIKAWA, Y. SHIRATAKI, H. SAKAGAMI (<i>Saitama, Japan</i>)	2055
Cyclooxygenase-2 Expression is Associated with Increased Size in Human Sporadic Colorectal Adenomas. C. PISANO, A. OTTAIANO, F. TATANGELO, M. DI BONITO, M. FALANGA, V.R. IAFFAIOLI, G. BOTTI, S. PIGNATA, A.M. ACQUAVIVA (<i>Naples, Italy</i>)	2065
(-)-Menthol Inhibits DNA Topoisomerases I, II α and β and Promotes NF- κ B expression in Human Gastric Cancer SNU-5 Cells. J.-P. LIN, H.-F. LU, J.-H. LEE, J.-G. LIN, T.-C. HSIA, L.-T. WU, J.-G. CHUNG (<i>Taichung; Taipei, Taiwan</i>).....	2069
Paracrine Calcitonin in Prostate Cancer is Linked to CD44 Variant Expression and Invasion. K.A. ICZKOWSKI, A.L.OMARA-OPYENE, T.R. KULKARNI, M. PANSARA, G.V. SHAH (<i>Gainesville, FL; Monroe, LA, USA</i>).....	2075
Changes in Fluoride Sensitivity During <i>In Vitro</i> Senescence of Normal Human Oral Cells. R. SATOH, K. KISHINO, S. REZA MD. MORSHED, F. TAKAYAMA, S. OTSUKI, F. SUZUKI, K. HASHIMOTO, H. KIKUCHI, H. NISHIKAWA, T. YASUI, H. SAKAGAMI (<i>Saitama, Japan</i>)	2085
Efficient Testing of the RET Gene by DHPLC Analysis for MEN 2 Syndrome in a Cohort of Patients. K. PAZAITOU-PANAYIOTOU, A. KAPRARA, L. SARIKA, T. ZOVOILIS, I. BELOGIANNI, I. VAINAS, G. NASIOULAS (<i>Thessaloniki; Athens, Greece</i>).....	2091
The <i>In Vitro</i> Effect of Paclitaxel on a LacZ-transfected Malignant Transitional Cell Line. V. VATNE, J. LITTLEKALSOEY, T. WENTZEL-LARSEN, J. HOSTMARK (<i>Bergen, Norway</i>).....	2097

Expression of Family A Melanoma Antigen in Human Gastric Carcinoma. E.J. JUNG, M.A KIM, H.S. LEE, H.K. YANG, Y.M. LEE, B.L. LEE, W.H. KIM (<i>Seoul, Korea</i>).....	2105
Effect of Chemotherapy on the Mutation Frequency of Ovarian Cancer Cells at the HPRT Locus. C. GERCEL-TAYLOR, J.J. SCOBEE, D.D. TAYLOR (<i>Louisville, KY, USA</i>).....	2113
Sabarubicin- (MEN 10755) and Paclitaxel Show Different Kinetics in Nuclear Factor-KappaB (NF-kB) Activation: Effect of Parthenolide on their Cytotoxicity. D. BELLAROSA, M. BINASCHI, C.A. MAGGI, C. GOSO (<i>Pomezia, Italy</i>)	2119
Inhibitory Effect of Fucoidan on the Adhesion of Adenocarcinoma Cells to Fibronectin. J.M. LIU, J. BIGNON, F. HAROUN-BOUHEDJA, P. BITTOUN, J. VASSY, S. FERMANDJIAN, J. WDZIECZAK-BAKALA, C. BOISSON-VIDAL (<i>Paris; Gif sur Yvette; Villejuif, France</i>)	2129
Cytokine Expression in Colon Carcinoma. P.K. BAIER, G. WOLFF-VORBECK, S. EGGSTEIN, U. BAUMGARTNER, U.T. HOPT (<i>Freiburg, Germany</i>).....	2135
Fractal Dimension as a Prognostic Factor for Laryngeal Carcinoma. A. DELIDES, I. PANAYIOTIDES, A. ALEGAKIS, A. KYROUDI, C. BANIS, A. PAVLAKI, E. HELIDONIS, C. KITTAS (<i>Piraeus; Athens; Heraklion, Greece</i>).....	2141
Iodinated Nitroimidazoles as Radiosensitizers. W. KRAUSE, A. JORDAN, R. SCHOLZ, J.-L. MARTIN JIMENEZ (<i>Berlin, Germany; Madrid, Spain</i>)	2145
Frequent Methylation of p16 ^{INK4A} /p14 ^{ARF} Promoters in Tumorigenesis of Epstein-Barr Virus Transformed Lymphoblastoid Cell Lines. E. NAGY, G. VERESS, K. SZARKA, E. CSOMA, Z. BECK (<i>Debrecen, Hungary</i>).....	2153
Mechanisms Involved in the Potentiation of Paclitaxel or 5-FU by the Hypoxic Cytotoxin NLCQ-1 (NSC 709257) <i>In Vitro</i> . M.V. PAPADOPOULOU, X. JI, W.D. BLOOMER (<i>Evanston, IL, USA</i>)	2161
Her2 Expression on Disseminated Tumor Cells from Bone Marrow of Breast Cancer Patients. S. BECKER, G. BECKER-PERGOLA, T. FEHM, D. WALLWIENER, E.-F. SOLOMAYER (<i>Tübingen, Germany</i>)	2171
<i>Ex Vivo</i> Expansion of Antitumor Cytotoxic Lymphocytes with Tumor-associated Antigen-loaded Dendritic Cells. A. GERVAIS, F. BOUET-TOUSSAINT, O. TOUTIRAIS, C.T. DE LA PINTIERE, N. GENETET, V. CATROS-QUEMENER (<i>Rennes, France</i>)	2177
pRb2/p130, p107 and p53 Expression in Precancerous Lesions and Squamous Cell Carcinoma of the Uterine Cervix. M. CENCI, T. PISANI, D. FRENCH, M. ALDERISIO, A. VECCHIONE (<i>Rome, Italy</i>).....	2187
Relationship between Topoisomerase II-DNA Cleavable Complexes, Apoptosis and Cytotoxic Activity of Anthracyclines in Human Cervix Carcinoma Cells. B.M. GRUBER, E.L. ANUSZEWSKA, I. BUBKO, A. GOZDZIK, W. PRIEBE, I. FOKT (<i>Warsaw, Poland; Houston, TX, USA</i>).....	2193
Effects of Alpha-hederin and Thymoquinone, Constituents of <i>Nigella sativa</i> , on Human Cancer Cell Lines. S. ROONEY, M.F. RYAN (<i>Dublin, Ireland</i>)	2199
Induction of Apoptosis by <i>Eurycoma longifolia</i> Jack Extracts. T.T. THIAM, A.H. LOPE PIHIE (<i>Bangi, Selangor, Malaysia</i>).....	2205
c-kit Expression in Dedifferentiated and Well-differentiated Liposarcomas; Immunohistochemistry and Genetic Analysis. S. TAYAL, E. CLASSEN, L. BEMIS, W.A. ROBINSON (<i>Denver, CO, USA</i>)	2215
Xanthorrhizol Induces Apoptosis <i>Via</i> the Up-regulation of Bax and p53 in HeLa Cells. N. ISMAIL, A.H. LOPE PIHIE, M. NALLAPAN (<i>Bangi, Selangor, Malaysia</i>).....	2221

Antileukemic Activity of Glycated Fibrinogen-Methotrexate Conjugates. U. KANSKA, M. SALAH OMAR, R. BUDZYNSKA, D. NEVOZHAY, M. JAGIELLO, A. OPOLSKI, J. BORATYNSKI (<i>Wroclaw; Czestochowa, Poland</i>).....	2229
Correlation between VDR Expression and Antiproliferative Activity of Vitamin D ₃ Compounds in Combination with Cytostatics. M. PELCZYNSKA, J. WIETRZYK, I. JAROSZEWICZ, D. NEVOZHAY, M. SWITALSKA, A. KUTNER, M. ZABEL, A. OPOLSKI (<i>Wroclaw; Warsaw; Czestochowa, Poland</i>).....	2235
Cytotoxicity and Apoptosis-inducing Activity of Bisphenol A and Hydroquinone in HL-60 Cells. H. TERASAKA, Y. KADOMA, H. SAKAGAMI, S. FUJISAWA (<i>Saitama; Tokyo, Japan</i>).....	2241
Polymorphisms of 5,10-Methylenetetrahydrofolate Reductase and Risk of Stomach Cancer in a Korean Population. J.K. KIM, S. KIM, J.H. HAN, H.J. KIM, S.Y. CHONG, S. P. HONG, S.G. HWANG, J.Y. AHN, K.Y. CHA, D. OH, N.K. KIM (<i>Seongnam, South Korea</i>).....	2249
Cytotoxicity of Cortivazol in Childhood Acute Lymphoblastic Leukemia. J. STYCZYNSKI, A. KURYLAK, M. WYSOCKI (<i>Torun, Poland</i>).....	2253
The Role of p27 in Controlling the Oxygen-dependent Checkpoint of Mammalian Cells in Late G ₁ . P. GRAFF, Ø. AMELLEM, J. SEIM, T. STOKKE, E.O. PETTERSEN (<i>Oslo, Norway</i>)	2259
Enterolactone Induces Apoptosis and Inhibits Growth of Colo 201 Human Colon Cancer Cells both <i>In Vitro</i> and <i>In Vivo</i> . N. DANBARA, T. YURI, M. TSUJITA-KYUTOKU, R. TSUKAMOTO, N. UEHARA, A. TSUBURA (<i>Osaka, Japan</i>).....	2269
ABSTRACTS OF THE SECOND INTERNATIONAL SYMPOSIUM ON VITAMIN D ANALOGS IN CANCER PREVENTION AND THERAPY, 7-8 May 2005, Lübeck, Germany	2277
ABSTRACTS OF THE INTERNATIONAL CONFERENCE ON OXIDATIVE STRESS IN SKIN BIOLOGY AND MEDICINE, 18-21 September 2003, Andros, Greece.....	2299

* Reviews (pages 1931, 2039)