

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 27, Number 6B, November-December 2007

Contents

Experimental Studies

- $\alpha_M\beta_2$ Integrin Modulator Exerts Antitumor Activity *In Vivo*. J. SUOJANEN, T. SALO, T. SORSA, E. KOIVUNEN (Helsinki; Oulu, Finland)..... 3775
- A Sequential Treatment of Depsipeptide Followed by 5-Azacytidine Enhances *Gadd45 β* Expression in Hepatocellular Carcinoma Cells. C. JIANG, B. ZHOU, K. FAN, E. HEUNG, L. XUE, X. LIU, M. KIRSCHBAUM, Y. YEN (Duarte, CA, USA) 3783
- Sequence-dependent Administration of 5-Fluorouracil Maintains Methotrexate Antineoplastic Activity in Human Estrogen-negative Breast Cancer and Protects against Methotrexate Cytotoxicity in Human Bone Marrow. J.R. DAS, E.B. FRYAR-TITA, Y. ZHOU, S. GREEN, W.M. SOUTHERLAND, D. BOWEN (Washington, DC; Chapel Hill, NC, USA) 3791
- Development of Keratinocyte Growth Factor Receptor Tyrosine Kinase Inhibitors for the Treatment of Cancer. J. HACKETT, Z. XIAO, X.-P. ZANG, M.L. LERNER, D.J. BRACKETT, R.W. BRUEGGEMEIER, P.-K. LI, J.T. PENTO (Oklahoma City, OK; Columbus, OH, USA)..... 3801
- Piroxicam Increases Colon Tumorigenesis and Promotes Apoptosis in *Mlh1^{+/-}/Apc1638^{N/+}* Mice. E. PALMERINI, K. FAN, K. YANG, M. RISIO, W. EDELMANN, M. LIPKIN, G. BIASCO (Bologna; Candiolo-Torino, Italy; New York; Bronx, NY, USA) 3807
- Atrial Natriuretic Peptide and Long Acting Natriuretic Peptide Inhibit MEK 1/2 Activation in Human Prostate Cancer Cells. Y. SUN, E.J. EICHELBAUM, H. WANG, D.L. VESELY (Tampa, FL, USA)..... 3813
- The Effects of Reactive Species on the Tumorigenic Phenotype of Human Head and Neck Squamous Cell Carcinoma (HNSCC) Cells. J.E. BRADBURN, P. PEI, L.A. KRESTY, J.C. LANG, A.J. YATES, A.P. McCORMICK, S.R. MALLERY (Columbus, OH, USA) 3819

Contents continued on the back cover

STAT-1 Expression in Human Glioblastoma and Peritumoral Tissue. J. HAYBAECK, P. OBRIST, C.U. SCHINDLER, G. SPIZZO, W. DOPPLER (<i>Linz; Innsbruck, Austria</i>)	3829
Mesenchymal Stem Cells in Patients with Chronic Myelogenous Leukaemia or Bi-phenotypic Ph+ Acute Leukaemia are not Related to the Leukaemic Clone. S. WÖHRER, W. RABITSCH, M. SHEHATA, R. KONDO, H. ESTERBAUER, B. STREUBEL, C. SILLABER, M. RADERER, U. JAEGER, C. ZIELINSKI, P. VALENT (<i>Vienna, Austria</i>)	3837
Pamidronate Down-regulates Urokinase-type Plasminogen Activator Expression in PC-3 Prostate Cancer Cells. K. IGUCHI, Y. TATSUDA, S. USUI, K. HIRANO (<i>Gifu, Japan</i>)	3843
Heterozygosity for Interleukin-18 -607 A/C Polymorphism is Associated with Risk for Colorectal Cancer. N. NIKITEAS, A. YANNOPOULOS, A. CHATZITHEOFYLAKTOU, C. TSIGRIS (<i>Athens, Greece</i>)	3849
Effects of Perinatal Exposure to Acrylamide and Glycidamide on Intestinal Tumorigenesis in <i>Min/+</i> Mice and Their Wild-type Litter Mates. H.B. ØLSTØRN, J.E. PAULSEN, J. ALEXANDER (<i>Oslo, Norway</i>)	3855
Cytostatic Murine B16 Cell-pulsed Dendritic Cells Induce Effective Protection Against Melanoma in Mice D. JOSEPH-PIETRAS, A. CARLIER, C. MADOULET, P. ALBERT (<i>Reims, France</i>)	3865
<i>In Vitro</i> Analysis of the Herbal Compound Essiac [®] . D. SEELY, D.A. KENNEDY, S.P. MYERS, P.A. CHERAS, D. LIN, R. LI, T. CATTLEY, P.-A. PAUL BRENT, E. MILLS, B.J.N. LEONARD (<i>Toronto, ON, Canada; Lismore, NSW, Australia</i>)	3875
Angiogenesis Can be Reduced without Significant Reduction of Tumor Growth. Å. SVENSSON, U. BÄCKMAN, D. FUCHS, R. CHRISTOFFERSON, F. AZARBAYJANI (<i>Uppsala, Sweden</i>)	3883
<i>Artemisia princeps</i> var <i>orientalis</i> Induces Apoptosis in Human Breast Cancer MCF-7 Cells. V.J. SARATH, C.-S. SO, Y.D. WON, S. GOLLAPUDI (<i>Irvine; Los Angeles, CA, USA</i>)	3891
Investigation of IVS14+1G>A Polymorphism of <i>DPYD</i> Gene in a Group of Turkish Patients with Colorectal Cancer. A. UZUNKOY, F. DILMEC, A. OZGONUL, A.B.P. van KUILENBURG, F. AKKAFI (<i>Sanliurfa, Turkey; Amsterdam, The Netherlands</i>)	3899
Overexpression of E-cadherin Protein in Metastatic Breast Cancer Cells in Bone. B. SAHA, B. CHAIWUN, S.S. IMAM, D.D. TSAO-WEI, S. GROSHEN, W.Y. NARITOKU, S.A. IMAM (<i>Pasadena; Los Angeles, CA, USA; Chiangmai, Thailand</i>)	3903
The Inhibitory Effect of Docetaxel and p38 MAPK Inhibitor on TZZ-1027 (Soblidotin)-induced Antivascular Activity. J. WATANABE, T. NATSUME, M. KOBAYASHI (<i>Kanagawa, Japan</i>)	3909
New Methodological Approach to Induce a Differentiation Phenotype in Caco-2 Cells Prior to Post-confluence Stage. A. FERRARETTO, C. GRAVAGHI, E. DONETTI, S. COSENTINO, B.M. DONIDA, M. BEDONI, G. LOMBARDI, A. FIORILLI, G. TETTAMANTI (<i>Segrate; Milan, Italy</i>)	3919
p53 Enhances Ascorbyl Stearate-induced G2/M Arrest of Human Ovarian Cancer Cells. K. AKHILENDER NAIDU, Q. FANG, KAMATHAM A. NAIDU, J.Q. CHENG, S.V. NICOSIA, D. COPPOLA (<i>Tampa, FL; Dallas, TX, USA; Mysore, India</i>)	3927
Block Copolymer Carrier Systems for Translymphatic Chemotherapy of Lymph Node Metastases. A.A. DÜNNE, H.G. BOERNER, H. KUKULA, H. SCHLAAD, S. WIEGAND, J.A. WERNER, M. ANTONIETTI (<i>Marburg; Potsdam-Golm, Germany</i>)	3935
Radiolabelling of Glucose-Tyr ³ -octreotate with ¹²⁵ I and Analysis of Its Metabolism in Rats: Comparison with Radiolabelled DOTA-Tyr ³ -octreotate. M. PETRIK, A. LAZNICKOVA, M. LAZNICEK, M.R. ZALUTSKY (<i>Hradec Kralove, Czech Republic; Durham, NC, USA</i>)	3941

Synergistic Cell Death by EGCG and Ibuprofen in DU-145 Prostate Cancer Cell Line. M.H. KIM, J. CHUNG (Fort Worth, TX, USA)	3947
Intranuclear Nucleolin Distribution during Cell Cycle Progression in Human Invasive Ductal Breast Carcinomas in Relation to Estrogen Receptor Status. M. MASIUK, E. URASINSKA, W. DOMAGALA (Szczecin, Poland).....	3957
Regulation of Pyruvate Kinase Type M2 by A-Raf: A Possible Glycolytic Stop or Go Mechanism. S. MAZUREK, H.C.A. DREXLER, J. TROPFMAIR, E. EIGENBRODT, U.R. RAPP (Giessen; Würzburg, Germany; Innsbruck, Austria)	3963
Altered Morphology, Nuclear Stability and Adhesion of Highly Metastatic Derivatives of Osteoblast-like SAOS-2 Osteosarcoma Cells. R. MUFF, N. NIGG, P. GRUBER, D. WALTERS, W. BORN, B. FUCHS (Zurich, Switzerland)	3973
The Interleukin-1 Beta Gene Polymorphism +3953 C/T is not Associated with Risk for Oral Cancer. E. VAIRAKTARIS, Z. SEREFOGLOU, C. YAPIJAKIS, P. STATHOPOULOS, S. VASSILIOU, S. DERKA, E. NKENKE, A. VYLLIOTIS, V. RAGOS, F.W. NEUKAM, E. PATSOURLIS (Athens, Greece; Erlangen, Germany)	3981
Facilitation of H ₂ O ₂ -induced A172 Human Glioblastoma Cell Death by Insertion of Oxidative Stress-sensitive TRPM2 Channels. M. ISHII, A. OYAMA, T. HAGIWARA, A. MIYAZAKI, Y. MORI, Y. KIUCHI, S. SHIMIZU (Tokyo; Kyoto, Japan).....	3987
p53 is an Independent Prognostic Factor for Survival in Thyroid Cancer. K. BACHMANN, D. PAWLISKA, J. KAIFI, P. SCHURR, J. ZÖRB, O. MANN, H.J. KAHL, J.R. IZBICKI, T. STRATE (Hamburg, Germany)	3993
Overexpression of Wild-type THRβ1 Suppresses the Growth and Invasiveness of Human Papillary Thyroid Cancer Cells. I. SEDLIAROU, M. MATSUSE, V. SAENKO, T. ROGOUNOVITCH, Y. NAKAZAWA, N. MITSUTAKE, H. NAMBA, Y. NAGAYAMA, S. YAMASHITA (Nagasaki, Japan)	3999
The Interleukin-18 -607A/C Polymorphism is not Associated with Risk for Oral Cancer. E. VAIRAKTARIS, Z.C. SEREFOGLOU, C. YAPIJAKIS, A. CHATZITHEOFYLAKTOU, S. VASSILIOU, E. NKENKE, A. VYLLIOTIS, S. SPYRIDONIDOU, F.W. NEUKAM, E. PATSOURLIS (Athens, Greece; Erlangen, Germany).....	4011
Antitumor Activity of the Somatostatin Structural Derivative (TT-232), Against Mouse and Human Melanoma Tumor Models. M. TEJEDA, D. GAÁL, L. HULLÁN, R. SCHWAB, O. SZOKOLOCI, G. KÉRI (Budapest, Hungary)	4015
Activity of Bortezomib in Adult <i>De Novo</i> and Relapsed Acute Myeloid Leukemia. L. GIL, J. STYCZYNSKI, D. DYTFFELD, R. DEBSKI, M. KAZMIERCZAK, B. KOLODZIEJ, B. RAFINSKA, M. KUBICKA, A. NOWICKI, M. KOMARNICKI, M. WYSOCKI (Poznan; Bydgoszcz, Poland).....	4021
A Metalloproteinase-13 Polymorphism Affecting its Gene Expression is Associated with Advanced Stages of Oral Cancer. E. VAIRAKTARIS, C. YAPIJAKIS, E. NKENKE, Z.C. SEREFOGLOU, A. CHATZITHEOFYLAKTOU, S. VASSILIOU, S. DERKA, A. VYLLIOTIS, D. PERREA, F.W. NEUKAM, E. PATSOURLIS (Athens, Greece; Erlangen, Germany).....	4027
<i>In Vitro</i> Evaluation of Zoledronic Acid Resistance Developed in MCF-7 Cells. M.D.KARS, Ö.D. İŞERİ, A.U. URAL, U. GÜNDÜZ (Ankara, Turkey)	4031
Sabarubicin (MEN10755)-induced Apoptosis is Independent from mtDNA in A2780 Human Ovarian Tumor Cells. A. BRESSAN, F. NARDELLI, D. BELLAROSA, M. BIGIONI, G. CURCURÙ, B. CURATELLA, A. CREA, C.A. MAGGI, S. MANZINI, M. BINASCHI (Pomezia; Florence, Italy)	4039

Quantitative Structure-activity Relationship Analysis of 4-Trifluoromethylimidazole Derivatives with the Concept of Absolute Hardness. M. ISHIHARA, M. KAWASE, H. SAKAGAMI (<i>Saitama; Ehime, Japan</i>)	4047
Quantitative Structure-Cytotoxicity Relationship Analysis of Phenoxazine Derivatives by Semiempirical Molecular-Orbital Method. M. ISHIHARA, M. KAWASE, G. WESTMAN, K. SAMUELSSON, N. MOTOHASHI, H. SAKAGAMI (<i>Saitama; Ehime; Tokyo, Japan; Göteborg, Sweden</i>)	4053
QSAR of Molecular Structure and Cytotoxic Activity of Vitamin K ₂ Derivatives with Concept of Absolute Hardness. M. ISHIHARA, H. SAKAGAMI (<i>Saitama, Japan</i>)	4059
Tumor-specific Cytotoxic Activity and Type of Cell Death Induced by 4-Trifluoromethylimidazoles in Human Oral Squamous Cell Carcinoma Cell Lines. F. TAKEKAWA, T. NAGUMO, S. SHINTANI, K. HASHIMOTO, H. KIKUCHI, T. KATAYAMA, M. ISHIHARA, O. AMANO, M. KAWASE, H. SAKAGAMI (<i>Saitama; Tokyo; Ehime, Japan</i>)	4065
<i>ERas</i> Oncogene Expression and Epigenetic Regulation by Histone Acetylation in Human Cancer Cells. K. YASUDA, M. YASHIRO, T. SAWADA, M. OHIRA, K. HIRAKAWA (<i>Osaka, Japan</i>)	4071
Hepatic Intra-arterial Interferon Alpha 2b-based Immunotherapy Combined with 5-Fluorouracil (5-FU)-based Systemic Chemotherapy for Patients with Hepatocellular Carcinoma (HCC) not Responsive and/or not Eligible for Conventional Treatments: A Pilot Study. F.V. VITALE, P. ROMEO, F. VASTA, V. PANEBIANCO, S. CALÌ, S. ROTONDO, F. FERRAÙ, M. LA GRECA (<i>Taormina; Messina, Italy</i>)	4077
Fas Expression is Associated with a Better Prognosis in Laryngeal Squamous Cell Carcinoma. C. ASENSIO, A. ZAPATA, J. GARCÍA-AHIJADO, B. GIL, P. SALVADORES, J. SCHNEIDER (<i>Talavera de la Reina; Madrid, Spain</i>)	4083
* Gallium-68 PET: A New Frontier in Receptor Cancer Imaging. A. AL-NAHHAS, Z. WIN, T. SZYSZKO, A. SINGH, C. NANNI, S. FANTI, D. RUBELLO (<i>London; Uxbridge, UK; Bologna; Rovigo, Italy</i>)	4087
Association of -1171 Promoter Polymorphism of Matrix Metalloproteinase-3 with Increased Risk for Oral Cancer. E. VAIRAKTARIS, C. YAPIJAKIS, S. VASILIOU, S. DERKA, E. NKENKE, Z. SEREFOGLOU, E. VORRIS, A. VYLLIOTIS, V. RAGOS, F.W. NEUKAM, E. PATSOURIS (<i>Athens, Greece; Erlangen, Germany</i>)	4095
Protein Tyrosine Kinase and Estrogen Receptor-dependent Pathways Regulate the Synthesis and Distribution of Glycosaminoglycans/Proteoglycans Produced by Two Human Colon Cancer Cell Lines. G. CHATZINIKOLAOU, D. NIKITOVIC, E.N. STATHOPOULOS, G.A. VELEGRAKIS, N.K. KARAMANOS, G.N. TZANAKAKIS (<i>Heraklion; Patras, Greece</i>)	4101
Investigation of NAD(P)H:Quinone Oxidoreductase 1 (NQO1) C609T Polymorphism in Prostate Cancer. H.A. ERGEN, U. GORMUS, F. NARTER, U. ZEYBEK, S. BULGURCUOGLU, T. ISBIR (<i>Istanbul, Turkey</i>)	4107
Decreased Migration of Myeloid Dendritic Cells through Increased Levels of C-Reactive Protein. H. FRENZEL, R. PRIES, C.P. BROCKS, W.J. JABS, N. WITTKOPF, B. WOLLENBERG (<i>Lübeck, Germany</i>)	4111
Detection and Analysis of Cancer Genes Amplified from Bone Material of a Scythian Royal Burial in Arzhan Near Tuva, Siberia. T. SCHLOTT, H. EIFFERT, T. SCHMIDT-SCHULTZ, M. GEBHARDT, H. PARZINGER, M. SCHULTZ (<i>Berlin, Germany</i>)	4117
The Platelet Glycoprotein Iba VNTR Polymorphism is Associated with Risk for Oral Cancer. E. VAIRAKTARIS, Z.C. SEREFOGLOU, C. YAPIJAKIS, S. VASSILIOU, E. NKENKE, D. AVGOUSTIDIS, A. VYLLIOTIS, P. STATHOPOULOS, F.W. NEUKAM, E. PATSOURIS (<i>Athens, Greece; Erlangen, Germany</i>)	4121

Inhibition of MRP1 Transport Activity by Phenolic and Terpenic Compounds Isolated from <i>Euphorbia</i> species. O. WESOLOWSKA, J. WISNIEWSKI, N. DUARTE, M.-J.U. FERREIRA, K. MICHALAK (Wroclaw, Poland; Lisbon, Portugal)	4127
<i>In Vitro</i> Modulation of Interleukin-2-mediated Human Peripheral Mononuclear Cell Proliferation and Antitumor Cytotoxicity by 5-Fluorouracil. E. BRAZOWSKI, K. EYTAN, A. EISENTHAL (Tel-Aviv, Israel)	4135
TP53 Mutation in Prostate Needle Biopsies – Comparison with Patients Follow-up. T.H. ECKE, H.H. SCHLECHTE, A. HÜBSCH, S.V. LENK, K. SCHIEMENZ, B.D. RUDOLPH, K. MILLER (Bad Saarow; Berlin, Germany).....	4143
Antitumor Activity of TGF- β Inhibitor is Dependent on the Microenvironment. S. MEDICHERLA, L. LI, J.Y. MA, A.M. KAPOUN, N.J. GASPAR, Y.-W. LIU, R. MANGADU, G. O'YOUNG, A.A. PROTTER, G.F. SCHREINER, D.H. WONG, L.S. HIGGINS (Fremont, CA, USA)	4149
No Detection of SV40 DNA in Mesothelioma Tissues from a High Incidence Area in Sweden. A. LUNDSTIG, A. DEJMEK, C. EKLUND, I. FILINIC, J. DILLNER (Malmö, Sweden)	4159
The Histone Deacetylase Inhibitor Butyrate Inhibits Melanoma Cell Invasion of Matrigel. A. KUWAJIMA, J. IWASHITA, J. MURATA, T. ABE (Akita, Japan)	4163
Non-invasive Imaging Correlates with Histological and Molecular Characteristics of an Osteosarcoma Model: Application for Early Detection and Follow-up of MDR Phenotype. A. DUTOUR, D. LECLERS, J. MONTEIL, F. PARAF, J.L. CHARISSOUX, R. ROUSSEAU, M. RIGAUD (Limoges; Lyon, France)	4171
Antitumor Effect of Acridine Orange Under Ultrasonic Irradiation <i>In Vitro</i> . N. SUZUKI, K. OKADA, S. CHIDA, C. KOMORI, Y. SHIMADA, T. SUZUKI (Akita, Japan).....	4179
* Diabetes and Oral Oncogenesis. E. VAIRAKTARIS, S. SPYRIDONIDOU, L. GOUTZANIS, A. VYLLIOTIS, A. LAZARIS, I. DONTA, D. PERREA, C. YAPIJAKIS, E. PATSOURIS (Athens, Greece)	4185
<i>In Vitro</i> Response of Stimulated B-CLL Lymphocytes of Patients Treated with <i>Viscum album</i> L. Extracts. A. BÜSSING, H. KOCHSKÄMPER, S. RIEGER, J.M. SCHIERHOLZ, D. SCHLODDER, M. SCHIETZEL (Witten/Herdecke; Bochum; Rosenfeld, Germany)	4195
Growth Hormone in Vascular Pathology: Neovascularization and Expression of Receptors is Associated with Cellular Proliferation. D.T. LINCOLN, P.K. SINGAL, A. AL-BANAW (Chapel Hill, QLD, Australia; Winnipeg, MB, Canada; Kuwait City, Kuwait)	4201
A Novel Antibody AA98 V _H /L Directed Against CD146 Efficiently Inhibits Angiogenesis. Y. LIN, X. WU, Y. SHEN, P. BU, D. YANG, X. YAN (Beijing, P.R. China).....	4219
Evaluation of Hypoxia-mediated Growth Factors in a Novel Bladder Cancer Animal Model. G. FECHNER, G. MÜLLER, D. SCHMIDT, S. GARBE, S. HAUSER, P. VAUPEL, S.C. MÜLLER (Bonn; Mainz, Germany)	4225
Tumor-specificity and Type of Cell Death Induced by Phenoxazines. F. SUZUKI, K. HASHIMOTO, M. ISHIHARA, G. WESTMAN, K. SAMUELSSON, M. KAWASE, N. MOTOHASHI, H. SAKAGAMI (Saitama; Ehime; Tokyo, Japan; Göteborg, Sweden)	4233
Targeting the Wnt Signaling Pathway with Dishevelled and Cisplatin Synergistically Suppresses Mesothelioma Cell Growth. K. UEMATSU, N. SEKI, T. SETO, C. ISOE, H. TSUKAMOTO, I. MIKAMI, L. YOU, B. HE, Z. XU, D.M. JABLONS, K. EGUCHI (Kanagawa; Saitama, Japan; San Francisco, CA, USA).....	4239
* Reviews (pages 4087, 4185)	