

in vivo

- International Journal of Experimental and Clinical Pathophysiology and Drug Research
- Published bimonthly by the International Institute of Anticancer Research
- Available online with Stanford University HighWire Press

ISSN (print): 0258-851X; ISSN (online): 1791-7549

General Policy

- IN VIVO is a multidisciplinary journal designed to bring together original high quality works and reviews on experimental and clinical biomedical research within the framework of comparative physiology and pathology. The special focus of the journal is the publication of works on: (a) experimental development and the application of new diagnostic procedures; (b) pharmacological and toxicological evaluation of new drugs and drug combinations; (c) development and characterization of models for biomedical research.
- One of the principal aims of IN VIVO is to provide for the prompt publication of accepted articles, generally within 1-2 months from final acceptance.
- IN VIVO supports: (a) the aims and the research programmes of the INTERNATIONAL INSTITUTE OF ANTICANCER RESEARCH (IIAR) (Kapandriti, Attiki, Greece) and (b) the organization of the INTERNATIONAL CONFERENCES OF ANTICANCER RESEARCH.

Editorial Office

International Institute of Anticancer Research, 1st km Kapandritiou-Kalamou Rd., Kapandriti, P.O. Box 22, Attiki, 19014, Greece. Tel and Fax: +30-22950-53389; e-mail: journals@iiar-anticancer.org

For more information about IN VIVO, IIAR and the conferences please visit the IIAR websites: www.iiar-anticancer.org and www.iiarjournals.org

Selection of Recent Articles

Repopulation of the Irradiation Damaged Lung with Bone Marrow-derived Cells. M.E. BERNARD, H. KIM, M.S. RAJAGOPALAN, B. STONE, U. SALIMI, J.-C. RWIGEMA, M.W. EPPERLY, H. SHEN, JU.P. GOFF, D. FRANICOLA, T. DIXON, S. CAO, X. ZHANG, H. WANG, D.B. STOLZ, J.S. GREENBERGER (*Pittsburgh, PA, USA*)

15-Lipoxygenase-1 Induces Lipid Peroxidation and Apoptosis, and Improves Survival in Rat Malignant Glioma. H. VIITA, A. PACHOLSKA, F. AHMAD, J. TIETÄVÄINEN, J. NAARALA, A. HYVÄRINEN, T. WIRTH, S. YLÄ-HERTTUALA (*Kuopio; Joensuu, Finland*)

Identification of Four Isoforms of Aldolase B Down-regulated in Hepatocellular Carcinoma Tissues by Means of Two-dimensional Western Blotting. Y. WANG, Y. KURAMITSU, M. TAKASHIMA, Y. YOKOYAMA, N. IIZUKA, T. TAMESA, I. SAKAIDA, M. OKA, K. NAKAMURA (*Ube, Japan*)

Effects of Polo-like-kinase-1-inhibitor BI 2536 in Squamous Cell Carcinoma Cell lines of the Head and Neck- first In Vitro Results. J. WAGENBLAST, D. HIRTH, L. THRON, C. ARNOLDNER, M. DIENSTHUBER, T. STÖVER, M. HAMBK (*Frankfurt am Main, Germany; Vienna, Austria*)

Expression Patterns and Potential Action of the Calcium Transport Genes Trpv5, Trpv6, Ncx1 and Pmca1b in the Canine Duodenum, Kidney and Uterus. J.-A. KIM, H. YANG, I. HWANG, E.-M. JUNG, K.-C. CHOI, E.-B. JEUNG (*Chungbuk, Republic of Korea*)

Association of IGF Axis Hormones with Waist-to-Hip Ratio Varies by Physical Activity. K.H. SCHMITZ, D. XIE, V. TEAL, R. BALLARD-BARBASH, D. BERRIGAN (*Philadelphia, PA; Bethesda, MD, USA*)

Post-operative Corticosterone Levels in Plasma and Feces of Mice Subjected to Permanent Catheterization and Automated Blood Sampling. R. SUNDBOM, K.R. JACOBSEN, O. KALLIOKOSKI, J. HAU, K.S.P. ABELSON (*Uppsala, Sweden; Copenhagen, Denmark*)

Familial Hodgkin's Lymphoma in Scandinavia. V. JØNSSON, H. AWAN, E. NYQUIST, M. MAISENHØLDER, T.B. JOHANNESSEN, B. LY, G.E. TJØNNFJORD (*Oslo, Norway*)

Repair of Postauricular Defects Using a New Technique: The Swallowtail Flap. C. MONARCA, M. MARUCCIA, F. PALUMBO, N. SCUDERI (*Rome, Italy*)

Adipocyte-derived Factor as a Modulator of Oxidative Estrogen Metabolism: Implications for Obesity and Estrogen-dependent Breast Cancer. H.L. BRADLOW, D.W. SEPKOVIC, N. TELANG, R. TIWARI (*New York, NY, USA*)

No Cytomegalovirus Detected in the Gastrointestinal Tract of Patients with Active Crohns Disease. M.T. AARNIO, J.P. BÖHM, K.P. NUORVA, R.I. PITKÄNEN, T.H. KUOPIO, M.E. VOUTILAINEN (*Jyväskylä, Finland*)

Colon Cancer Vaccines: An Update (Review). E. MERIKA, M.W. SAIF, A. KATZ, C. SYRIGOS, M. MORSE (*London, UK; Haven, CT; Durham, NC, USA; Athens, Greece*)

Animal Models of N-Methyl-N-Nitrosourea-induced Mammary Cancer and Retinal Degeneration with Special Emphasis on Therapeutic Trials (Review). A. TSUBURA, OY.-C. LAI, H. MIKI, T. SASAKI, N. UEHARA, T. YURI, K. YOSHIZAWA (*Moriguchi, Osaka, Japan*)

Canine Mammary Tumours as a Model to Study Human Breast Cancer: Most Recent Findings (Review). F.L. QUEIROGA, T. RAPOSO, M.I. CARVALHO, J. PRADA, I. PIRES (*Vila Real, Portugal*)

Metastatic Potential of Orthotopic and Heterotopic Models Imaged by GFP and RFP Protein (Review). V. BOBEK, K. KOLOSTOVA, D. PINTEROVA, M. BOUBELIK, R. GURLICH, R.M. HOFFMAN (*Prague, Czech Republic; San Diego, CA, USA*)

Serotonin Transporter Polymorphism in Major Depressive Disorder (MDD), Psychiatric Disorders, and in MDD in Response to Stressful Life Events: Causes and Treatment with Antidepressant (Review). A. DANIELE, R. DIVELLA, A. PARADISO, V. MATTIOLI, F. ROMITO, F. GIOTTA, P. CASAMASSIMA, M. QUARANTA (*Bari, Italy*)

In Vivo Research Using Early Life Stage Models (Review). R. SEABRA, N. BHOGAL (*Nottingham, UK*)

FREE SPECIMEN COPIES OF IN VIVO ARE AVAILABLE ON REQUEST

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN (print): 0250-7005; ISSN (online): 1791-7530

- ANTICANCER RESEARCH is an independent international forum devoted to the rapid publication of original high quality articles and reviews on all aspects of experimental and clinical oncology. Prompt evaluation of all submitted articles in confidence and rapid publication within 1-2 months from acceptance are guaranteed.
- ANTICANCER RESEARCH is published monthly by the International Institute of Anticancer Research and is available online with Stanford University HighWire Press.
For more information please visit our websites www.iar-anticancer.org and www.iarjournals.org.
- **Editorial Office:** International Institute of Anticancer Research (IIAR), 1st km Kapandritiou-Kalamou Rd., Kapandriti, P.O. Box 22, Attiki 19014, Greece.
Tel & Fax: +30-22950-53389, e-mail: journals@iar-anticancer.org. IIAR website: www.iar-anticancer.org

● Selection of Recent Articles

Autologous Stem Cell Transplantation: Leukapheresis Product has Anti-angiogenic Effects *In Vivo* Correlating with Neutrophil-derived VEGFR1. A. LUETHY, F. STENNER, C. LOHRI, C. MULLER, P. SAMARAS, R. STEINER, M. VAN DEN BROEK, A. MISCHO, C. RENNER, A. KNUTH, C. RUEGG, R.H. WENGER, M. ZWEIFEL (Zurich; Fribourg, Switzerland)

TGF- β Regulation of Focal Adhesion Proteins and Motility of Premalignant Oral Lesions via Protein Phosphatase 1. J.E. WALSH, M.R. YOUNG (Charleston, SC, USA)

Angiogenesis Quantification in Breast Cancer by Automated Vessel Identification in CD34 Immunohistochemical Sections. L.T.G. MIKALSEN, H.P. DHAKAL, Ø.S. BRULAND, J.M. NESLAND, D.R. OLSEN (Oslo; Bergen, Norway)

Selective Gelatinase Inhibitor Peptide is Effective in Targeting Tongue Carcinoma Cell Tumors *In Vivo*. J. SUOJANEN, J. REUNANEN, S.-T. VILEN, P. NYBERG, P. HEIKKILÄ, O. PENATE-MEDINA, P.E.J. SARIS, J. HAGSTRÖM, T. SORSA (Helsinki; Oulu, Finland; New York, NY, USA)

Acquired Drug Resistance to Vascular Endothelial Growth Factor Receptor 2 Tyrosine Kinase Inhibitor in Human Vascular Endothelial Cells. T. ARAO, K. MATSUMOTO, K. FURUTA, K. KUDO, H. KANEDA, T. NAGAI, K. SAKAI, Y. FUJITA, D. TAMURA, K. AOMATSU, F. KOIZUMI, K. NISHIO (Osaka- Sayama; Tokyo, Japan)

Synergistic Activity of Histone Deacetylase and Proteasome Inhibition Against Pancreatic and Hepatocellular Cancer Cell Lines. J.L. SPRATLIN, T.M. PITTS, G.N. KULIKOWSKI, M.P. MORELLI, J.J. TENTLER, N.J. SERKOVA, S.G. ECKHARDT (Aurora, CO, USA; Edmonton, AB, Canada)

Cytotoxicity of Chalcone Derivatives towards Glioblastoma. P. CHAMPELOVIER, M. MININNO, E. DUCHAMP, E. NICOLLE, V. CURRI, A. BOUMENDJEL, J. BOUTONNAT (Grenoble, France)

A Rapid Imageable *In Vivo* Metastasis Assay for Circulating Tumor Cells. R.S. MENEN, E. PINNEY, K. KOLOSTOVA, V. BOBEK, A. SUETSUGU, N. ZHANG, M. BOUVET, R.M. HOFFMAN (San Diego; Oakland, CA, USA; Prague, Czech Republic)

Loss of p27^{KIP1} Expression in Fully-staged Node-negative Breast Cancer: Association with Lack of Hormone Receptors in T1a/b, but not T1c Infiltrative Ductal Carcinoma. D. MIRCHANDANI, D. ROSES, G. INGHIRAMI, A. ZELENIUCH-JACQUOTTE, J. CANGIARELLA, A. GUTH, R.A. SAFYAN, S. FORMENTI, M. PAGANO, F. MUGGIA (New York, NY, USA)

Clinicopathological Study of Poorly Differentiated Colorectal Adenocarcinomas: Comparison between Solid-type and Non-solid-type Adenocarcinomas. K. KOMORI, Y. KANEMITSU, S. ISHIGURO, Y. SHIMIZU, T. SANO, S. ITO, T. ABE, Y. SENDA, K. MISAWA, Y. ITO, N. UEMURA, T. KATO (Nagoya; Aichi, Japan)

Expression Status of Ribonucleotide Reductase Small Subunits hRRM2/p53R2 as Prognostic Biomarkers in Stage I and II Non-small Cell Lung Cancer. N.-Y. HSU, J.-Y. WU, X. LIU, Y. YEN, C.-Y. CHEN, M.-C. CHOU, C.-H. LIN, H. LEE, Y.-W. CHENG (Taichung; Hsinchu, Taiwan, ROC; Duarte, CA, USA)

Oxaliplatin Scale and National Cancer Institute-Common Toxicity Criteria in the Assessment of Chemotherapy-induced Peripheral Neuropathy. A.-L. KAUTIO, M. HAANPÄÄ, H. KAUTIAINEN, A. LEMINEN, E. KALSO, T. SAARTO (Helsinki; Jyväskylä; Tampere, Finland)

Effect of Tamoxifen or Anastrozole on Steroid Sulfatase Activity and Serum Androgen Concentrations in Postmenopausal Women with Breast Cancer. S.J. STANWAY, C. PALMIERI, F.Z. STANCZYK, E.J. FOLKERD, M. DOWSETT, R. WARD, R.C. COOMBES, M.J. REED, A. PUROHIT (London, UK; Los Angeles, CA, USA)

Rho Kinase Proteins–Pleiotropic Modulators of Cell Survival & Apoptosis (Review). C.A. STREET, B.A. BRYAN (Worcester, MA; El Paso, TX, USA)

The Roles of Cytochrome P450 Enzymes in Prostate Cancer Development and Treatment (Review). T.C. CHEN, T. SAKAKI, K. YAMAMOTO, A. KITTAKA (Boston, MA, USA; Toyama; Tokyo; Kanagawa, Japan)

Cell-free DNA in the Circulation as a Potential Cancer Biomarker (Review). C. KOHLER, Z. BAREKATI, R. RADPOUR, X.Y. ZHONG (Basel, Switzerland)

KRAS- induced Actin- interacting Protein: A Potent Target for Obesity, Diabetes and Cancer (Review). T. FUJIMOTO, S. SHIRASAWA (Fukuoka, Japan)

The Mutational Profile of Sporadic Epithelial Ovarian Carcinoma (Review). S. KALAMANATHAN, V. BATES, R. LORD, J.A. GREEN (Liverpool; Wirral, Merseyside, UK)

Full Myeloablative Conditioning and an Unrelated HLA Mismatched Donor Increase the Risk for BK Virus-positive Hemorrhagic Cystitis in Allogeneic Hematopoietic Stem Cell Transplanted Patients (Review). T. DALIANIS, P. LJUNGMAN (Stockholm, Sweden)

FREE SPECIMEN COPIES OF ANTICANCER RESEARCH ARE AVAILABLE ON REQUEST