

# in vivo

International Journal of Experimental and Clinical Pathophysiology and Drug Research

Volume 21, Number 4, July-August 2007

## Contents

### *Experimental Studies*

- Effects of Acute Exposure to a 1439 MHz Electromagnetic Field on the Microcirculatory Parameters in Rat Brain. H. MASUDA, A. USHIYAMA, S. HIROTA, K. WAKE, S. WATANABE, Y. YAMANAKA, M. TAKI, C. OHKUBO (*Saitama; Koganei; Hachioji, Tokyo, Japan; Geneva, Switzerland*) ..... 555
- Effects of Subchronic Exposure to a 1439 MHz Electromagnetic Field on the Microcirculatory Parameters in Rat Brain. H. MASUDA, A. USHIYAMA, S. HIROTA, K. WAKE, S. WATANABE, Y. YAMANAKA, M. TAKI, C. OHKUBO (*Saitama; Koganei; Hachioji, Tokyo, Japan; Geneva, Switzerland*) ..... 563
- Histone H1 and Cdk1 Kinase Activities in Early Embryos of Four Mouse Strains after X-irradiation. S. BAATOUT, W. MÜLLER, A. MICHAUX, J. BUSET, W. SCHOONJANS, P. JACQUET (*Mol, Belgium; Essen, Germany*)..... 571
- Increased Bone Mineral Density in Aged Rats with Spontaneous Mammary Dysplasia. H. KAWAGUCHI, Y. UMEKITA, M. SOUDA, K. GEJIMA, H. KAWASHIMA, H. MAEDA, H. MIYAJIMA, R. NAGATA, H. YOSHIDA (*Kagoshima, Japan*)..... 583
- Intracellular Signal Transduction in Mouse Oocytes and Irradiated Early Embryos. S. BAATOUT, R. JAUSSE, A. MICHAUX, J. BUSET, W. SCHOONJANS, P. JACQUET (*Mol, Belgium; Villigen, Switzerland*)..... 587
- Overexpression of CHP2 Enhances Tumor Cell Growth, Invasion and Metastasis in Ovarian Cancer. Q. JIN, B. KONG, X. YANG, B. CUI, Y. WEI, Q. YANG (*Ji'nan, Shandong, China; New Brunswick, NJ, USA*)..... 593
- Schistosome-induced Pathology is Exacerbated and Th2 Polarization Is Enhanced During Pregnancy. I.O. FARAH, D. LANGOI, J. NYAUNDI, J. HAU (*Nairobi, Kenya; Uppsala, Sweden; Copenhagen, Denmark*) ..... 599

*Contents continued at the back cover*

Effect of Saliva, Epigallocatechin Gallate and Hypoxia on Cu-induced Oxidation and Cytotoxicity. T. YAMAZAKI, A. YAMAZAKI, H. ONUKI, Y. HIBINO, Y. YOKOTE, H. SAKAGAMI, H. NAKAJIMA, J. SHIMADA ( <i>Saitama, Japan</i> ) .....	603
Fluoroscopic-guided Intradiscal Oxygen-Ozone Injection Therapy for Thoracolumbar Intervertebral Disc Herniations in Dogs. H.-J. HAN, J.-Y. KIM, H.-Y. JANG, B. LEE, J.-H. YOON, S.-K. JANG, S.H. CHOI, S.-W. JEONG ( <i>Chungbuk; Seoul, South Korea</i> ) .....	609
Diabetes Increases both N-ras and Ets-1 Expression During Rat Oral Oncogenesis Resulting in Enhanced Cell Proliferation and Metastatic Potential. E. VAIRAKTARIS, L. GOUTZANIS, G. KALOKERINOS, A. YANNOPOULOS, C. YAPIJAKIS, S. VASSILIOU, S. SPYRIDONIDOU, A. VYLLIOTIS, E. NKENKE, A.C. LAZARIS, C. TESSEROMATIS, E. PATSOURIS ( <i>Athens, Greece; Erlangen, Germany</i> ) .....	615
Diabetes does not Influence Oral Oncogenesis Through Fibroblast Growth Factor Receptors. E. VAIRAKTARIS, L. GOUTZANIS, E. NKENKE, S. SPYRIDONIDOU, S. VASSILIOU, S. DERKA, A. VYLLIOTIS, C. YAPIJAKIS, A. LAZARIS, P. STRANTZIAS, E. KALIMERAS, E. PATSOURIS ( <i>Athens, Greece; Erlangen, Germany</i> ).....	623
Tenascin-C is Required for Proliferation of Astrocytes in Primary Culture. H. IKESHIMA-KATAOKA, S. SAITO, S. YUASA ( <i>Tokyo, Japan</i> ) .....	629
Elimination of Plasmids by SILA Compounds that Inhibit Efflux Pumps of Bacteria and Cancer Cells. Z. SCHELZ, M. MARTINS, A. MARTINS, M. VIVEIROS, J. MOLNAR, L. AMARAL ( <i>Szeged, Hungary; Lisbon, Portugal</i> ) .....	635
Fractal Dimension as an Index of Brain Cortical Changes Throughout Life. E. KALMANTI, T. MARIS ( <i>Heraklion, Crete; Athens, Greece</i> ) .....	641
Immune and Endocrine Mechanisms of Advanced Cancer-related Hypercortisolemia. P. LISSONI, F. BRIVIO, L. FUMAGALLI, G. MESSINA, G. SECRETO, B. ROMELLI, G. FUMAGALLI, F. ROVELLI, M. COLCIAGO, G. BRERA ( <i>Monza; Milan, Italy</i> ).....	647
Evaluation of Bioactive Glass for Mastoid Obliteration: A Guinea Pig Model. C.H. JANG, Y.B. CHO, C.S. BAE ( <i>Gwangju, South Korea</i> ) .....	651
Assessment of DNA Damage in Multiple Organs from Mice Exposed to X-rays or Acrylamide or a Combination of Both Using the Comet Assay. M.M. DOBRZYŃSKA ( <i>Warsaw, Poland</i> ) .....	657
Fas-1377 A/G Polymorphism in Lung Cancer. U. GORMUS, A. ERGEN, I. YAYLIM-ERALTAN, H. YILMAZ, A. TURNA, N. BOZKURT, T. ISBIR ( <i>Istanbul, Turkey</i> ).....	663
Commercial Soy Milk Enhances the Development of 7,12-Dimethylbenz(a)anthracene-induced Mammary Tumors in Rats. L.-Q. QIN, J.-Y. XU, H. TEZUKA, P.-Y. WANG, K. HOSHI ( <i>Yamanashi, Japan; Suzhou; Beijing, China</i> ).....	667
Correlation of HER-2/neu Protein Overexpression with Other Prognostic and Predictive Factors in Invasive Ductal Breast Cancer. T. IVKOVIC-KAPICL, S. KNEZEVIC-USAJ, D. DILAS-IVANOVIC, M. PANJKOVIC ( <i>Novi Sad, Serbia</i> ) .....	673

*Clinical Studies*

Description of Patients with Midgut Carcinoid Tumours: Clinical Database from a Danish Centre. K.M. NYKJÆR, H. GRØNBÆK, D.T. NIELSEN, P. CHRISTIANSEN, L.B. ASTRUP ( <i>Aarhus, Denmark</i> ).....	679
Fibrinogen, Lipoprotein (a), Albumin and Bilirubin (F-L-A-B) Levels and Cardiovascular Risk Calculated Using the Framingham Equation. E.S. GANOTAKIS, G.E. VRENTZOS, I.F. GAZI, J.A. PAPADAKIS, I.A. JAGROOP, K.I. PARASKEVAS, D.R. NAIR, D.P. MIKHAILIDIS ( <i>London, UK; Heraklion, Greece</i> ) .....	685
Subglottic MALT Lymphoma of the Larynx – More Attention to the Glottis. A. STEFFEN, C. JAFARI, H. MERZ, J. GALLE, G. BERGER ( <i>Luebeck; Borstel, Germany</i> ) .....	695
Evaluation of Apolipoprotein E (ApoE) and Lipoprotein Profile in Severe Alcohol-dependent Individuals. I.A. LIAPPAS, C. NIKOLAOU, M. MICHALOPOULOU, T. PAPARRIGOPOULOS, E.O. TZAVELLAS, C. PIPERI, C. CAMBOURI, C.R. SOLDATOS ( <i>Athens, Greece</i> ).....	699
Evaluation of Oxidative Stress Markers after Vaginal Delivery or Caesarean Section. Z. HRACSKO, Z. SAFAR, H. ORVOS, Z. NOVAK, A. PAL, I.S. VARGA ( <i>Szeged, Hungary</i> ).....	703