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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.

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Selection of Recent Articles

Proteomic Profiling to Identify Prognostic Biomarkers in Heart Failure. P.A. SCOTT, B. ZEIDAN, L.L. NG, M. ZEB, J.A. ROSENGARTEN, S. GARBUS, N.P. CURZEN, J.M. MORGAN, P.A. TOWNSEND (Southampton; Leicester, UK; Athens, Greece)

Diverging In Vitro Antibody Isotype Switching Preference in B-Lymphocytes from C57BL/6 and FVB Mice. A.G. PUTHIYAVEETIL, B. OKYERE, C.M. REILLY, D. CAUDELL (Blacksburg, VA, USA)

The Zebrafish - Danio rerio - Is a Useful Model for Measuring the Effects of Small-molecule Mitigators of Late Effects of Ionizing Irradiation. M.W. EPPERLY, N. BAHARY, M. QUADER, V. DEWALD, J.S. GREENBERGER (Pittsburgh, PA, USA)

Breast Cancer: Mechanisms Involved in Action of Phytoestrogens and Epigenetic Changes. A. DAGDEMIR, J. DURIF, M. NGOLLO, Y.-J. BIGNON, D. BERNARD-GALLON (Clermont-Ferrand, France)

Positron-emission Tomography (PET) Imaging Agents for Diagnosis of Human Prostate Cancer: Agonist vs. Antagonist Ligands. P.K. NANDA, B.E. WIENHOFF, T.L. ROLD, G.L. SIECRMAN, A.F. SZCZODROSKI, T.J. HOFFMAN, B.E. ROGERS, C.J. SMITH (Columbia; St. Louis, MO, USA)

In Vivo Models for Defining Molecular Subtypes of the Primitive Neuroectodermal Tumor Genome: Current Challenges and Solutions. J.D. LARSON, D.A. LARGAESPA (Minneapolis, MN, USA)

Effects of Minocycline on Hematopoietic Recovery After Whole-body Irradiation. S. MEHROTRA, M.J. PECAUT, D.S. GRIDLEY (Loma Linda, CA, USA)

Sequential Changes in the Expression of Wnt- and Notch-related Genes in the Vagina and Uterus of Ovariectomized Mice after Estrogen Exposure. T. NAKAMURA, S. MIYAGAWA, Y. KATSU, T. SATO, T. IGUCHI, Y. OHTA (Yamagata; Okazaki; Sapporo; Yokohama; Tottori, Japan)

Catecholamines Reduce Dose-dependent Oedema Formation and Inflammatory Reaction in an Isolated Rat Lung Model. C. DACHO, A. DACHO, A. GEISSLER, C. HAUSER, K. NOWAK, G. BECK (Heidelberg; Essen; Wiesbaden, Germany)

Biocompatibility of Membranes with Unrestricted Somatic Stem Cells. C. NAUJKOS, F.P. VON BECK, F. LANGENBACH, M. HENTSCHEL, K. BERR, M. HOFER, R. DEPPRICH, N. KÜBLER, J. HANDSCHEL (Düsseldorf, Germany)


Acclimatization of Mice to Different Cage Types and Social Groupings with Respect to Fecal Secretion of IgA and Corticosterone Metabolites. C.J. BUNDGAARD, O. KALLIOKOSKI, K.S. ABELSON, J. HAU (Copenhagen, Denmark)

Exploring Anticarcinogenic Agents in a Rat Hepatocarcinogenesis Model – Focus on Selenium and Statins. L. BJÖRKHEM-BERGMAN, L. ERSTRÖM, L.C. ERISSON (Stockholm, Sweden)


Amino Acid Chloramine Damage to Proliferating Cell Nuclear Antigen in Mammalian Cells. S.A. SALAMA, R.M. SNAPKA (Columbus, OH, USA; Cairo, Egypt)

The Effect of Insulin-like Growth Factor II in the Regulation of Tumour Cell Growth In Vitro and Tumourigenesis In Vivo. M. HALJE, M. NORDIN, D. BERGMAN, W. ENSTRÖM (Uppsala, Sweden)
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A Selection of Recent Papers

Metastatic Biomarker Discovery Through Proteomics. L.T. BRINTON, T.A. BRENTNALL, J.A. SMITH, K.A. KELLY (Charlottesville, VA; Seattle, WA, USA)


Review: Breast Cancer and Metastasis: On the Way Toward Individualized Therapy. A.P. TRAPÈ, A.M. GONZALEZ-ANGULO (Houston, TX, USA)

In Silico Functional Profiling of Individual Prostate Cancer Tumors: Many Genes, Few Functions. I.P. GORLOV, J. BYUN, C.J. LOGOTHETIS (Houston, TX, USA)

Expression of Signal-induced Proliferation-associated Gene 1 (SIPA1), a RapGTPase-activating Protein, Is Increased in Colorectal Cancer and Has Diverse Effects on Functions of Colorectal Cancer Cells. K. JI, L. YE, A.-M. TOMS, R. HARGEST, T.A. MARTIN, F. RUGE, J. JI, W.G. JIANG (Cardiff, UK; Beijing, PR China)

Single Nucleotide Polymorphisms of Genes for EGF, TGF-β and TNF-α in Patients with Pancreatic Carcinoma. L. ZHANG, G. WU, F. HERRLE, M. NIEDERGETHMANN, M. KEESE (Frankfurt; Heidelberg, Germany; Xiamen, P. R. China)

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20-HETE-producing Enzymes Are Up-regulated in Human Cancers. A. ALEXANIAN, B. MILLER, R.J. ROMAN, A. SOROKIN (Milwaukee, WI; Jackson, MS, USA)

Unifying the Genomics-based Classes of Cancer Fusion Gene Partners: Large Cancer Fusion Genes are Evolutionarily Conserved. L.M. PAVA, D.T. MORTON, R. CHEN, G. BLANCK (Tampa, FL, USA)

Expression of Monocarboxylate Transporter (MCT)-4 in Colorectal Cancer and its Role: MCT4 Contributes to the Growth of Colorectal Cancer with Vascular Endothelial Growth Factor. Y. GOTANDA, Y. AKAGI, A. KAWAHARA, T. KINUGASA, T. YOSHIDA, Y. RYU, I. SHIRATSUCHI, M. KAGE, K. SHIROUZU (Fukuoka, Japan) ................................................................. 2941

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