Instructions for Authors 2022

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 frames of human physiology, pathology and disease management. The topics of IN VIVO include: 1. Experimental development and application of new diagnostic and therapeutic procedures; 2. Pharmacological and toxicological evaluation of new drugs, drug combinations and drug delivery systems; 3. Clinical trials; 4. Development and characterization of models of biomedical research; 5. Cancer diagnosis and treatment; 6. Immunotherapy and vaccines; 7. Radiotherapy, Imaging; 8. Tissue engineering, Regenerative medicine; 9. Carcinogenesis; 10. Retrospective studies and case reports. Each article should include a concrete conclusion constituting a “new piece of knowledge” backed up by scientific evidence. IN VIVO provides for the prompt online publication of accepted articles, generally within 1-2 months from final acceptance.

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The use of animals in biomedical research should take place under careful supervision of a person adequately trained in this field and the animals must be treated humanely at all times. Such research should adhere to the Guiding Principles in the Care and Use of Animals approved by the Council of the American Physiological Society.

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Manuscripts. Manuscripts should be divided into the following sections: (a) First page including the title of the presented work [not exceeding fifteen (15) words], full names and full postal addresses of all Authors, name of the Author to whom proofs are to be sent, key words, an abbreviated running title, an indication “review”, “clinical”, “epidemiological”, or “experimental” study, and the date of submission. (Note: The order of the Authors is not necessarily indicative of their contribution to the work. Authors may note their individual contribution(s) in the appropriate section(s) of the presented work or before the Acknowledgements); (b) Abstract not exceeding 250 words, organized according to the following headings: Background/Aim – Materials and Methods/Patients and Methods – Results – Conclusion; (c) Introduction; (d) Materials and Methods/Patients and Methods; (e) Results; (f) Discussion; (g) Conflicts of Interest; (h) Authors’ Contributions; (i) Acknowledgements; (j) References. All pages must be numbered consecutively. Footnotes should be avoided. Review articles may follow a different style according to the subject matter and the Author’s opinion.

Figures (graphs and photographs). All figures should appear at the end of the submitted document file. Once a manuscript is accepted all figures should be submitted separately in either jpg, tiff or pdf format and at a minimum resolution of 300 dpi. Graphs must be submitted as pictures made from drawings and must not require any artwork, typesetting, or size modifications. The number of each figure must be indicated. Pages that include color figures are not subject to color charges.

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- Photographs should be clear with high contrast, presenting the actual observation described in the legend and in the text. Each legend should provide a complete description, being self-explanatory, including technique of preparation, information about the specimen and magnification.
- Statistical analysis should be elaborated wherever it is necessary. Simplification of presentation by giving only numerical or % values should be avoided.
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Selection of Recent Articles

The A20/TNFAIP3-CDC20-CASP1 Axis Promotes Inflammation-mediated Metastatic Disease in Triple-negative Breast Cancer.
C. SONG, A.T. KENDI, V.J. LOWE, S. LEE (Rochester, MN, USA)

Leptomeningeal Metastases of the Spine: A Systematic Review.
P. PALMISCIANO, N.S. SAGOO, A.F. KHARBAR, Y.J. KENFACK, O.B. ALAMER, G. CALIA, G.E. UMANA, S.G. AOUN, A.S. HAIDER (Catania, Italy; Dallas; Laubbock, Houston, TX, USA; Riyadh, Kingdom of Saudi Arabia)

The Role of Surgery for Pancreatic Neuroendocrine Tumors.
I.A. ZIOGAS, R. SCHMITZ, D. MORIS, C.J. VATSAAS (Nashville, TN; Durham, NC, USA)

A Systematic Review of Minimally Invasive Versus Open Radical Antegrade Modular Pancreatoplasty for Pancreatic Cancer.
K. TAKAGI, Y. UMEeda, R. YOSHIdA, T. YAGI, T. FUJIIWARa (Okayama, Japan)

A Novel Molecular Target in EGFR-mutant Lung Cancer Treated With the Combination of Osimertinib and Pemetrexed.
T. TAKANO, M. SEIKE, T. SUGANO, K. MATSUDA, K. HISAKANE, A. YOSHIKAWA, S. NAKAMICHI, R. NORO, A. GEMMA (Tokyo, Japan)

The Natural Estrogen Receptor Beta Agonist Silithinin as a Promising Therapeutic Tool in Diffuse Large B-cell Lymphoma. P. ORTONA, S.L. LOCATELLI, M.T. PAGANO, B. ASCIONE, G. CAREDDUB, M.L. DUPUIS, M. MARCONI, C. CARLO-STELLA, W. MALORNI, P. MATARRESE, M. PIERDOMINIC (Rome; Rozzano, Italy)

Postoperative Treatment of Resectable Pancreatic Cancer With Positive Peritoneal Lavage Cytology: A Multicentre Retrospective Study.
A. TODAKA, S. NARA, F. MOTOI, S. MORIZAGA, T. TOSHIYAMA, R. HIGUCHI, M. KONISHI, H. SHIRAKAWA, K. TAKAGI, M. HAYASHI, H. TAKAHIDA, K. NAKAMURA, K. ITAMA, K. YOSHIDA, M. YOSHII, F. HOGA, C. SON, A. TENDA, F. YAMAGATA, H. TSUKUMA, H. OKUYAMA, K. NAGANO, K. SHIOJI, K. SUGIMACHI, A. ASAGI, M. MIZUNO, J. FURUSE (Shizuoka; Tokyo; Miyagi; Yamagata; Kanagawa; Osaka; Chiba; Tochigi; Hyogo; Kagawa; Yamaguchi; Niigata; Fukuoka; Ehime; Aichi, Japan)

Ko143 Reverses MDR in Glioblastoma via Deactivating P-Glycoprotein, Sensitizing a Resistant Phenotype to TMZ Treatment.
S.D. LUSTIG, S.K. KODALI, S.L. LONGO, S. KUNDU, M.S. VIAPIANO (Nashville, TN; Canastota, NY; Syracuse, NY, USA)

CHFR Promoter Methylation Is Predictive of Response to Irinotecan-based Systemic Chemotherapy in Colorectal Cancer. T. HAGIWARA, K. SUGIMOTO, H. MOMOSE, T. IRIE, K. HONJO, Y. OKAZAWA, M. KAWAI, S. KAWANO, S. MUNAKATA, M. TAKAHASHI, Y. KOJIMA, N. SERIZAWA, A. NAGAHARA, R.M. HOFFMAN, M.V. BROCK, K. SAKAMOTO (Tokyo, Japan; San Diego, CA; Baltimore, MD, USA)

Osteosarcoma Patient-derived Orthotopic Xenograft (PDX) Models Used to Identify Novel and Effective Therapeutics: A Review. T. HIGUCHI, K. IGARASHI, N. TAMAMOTO, K. HAYASHI, H. KIMURA, S. MIWA, M. BOUVET, H. TSUCHIYA, R.M. HOFFMAN (San Diego, CA, USA; Kanazawa, Japan)


Selection of Recent Articles

CRY1 Regulates Chemoresistance in Association With NANOG by Inhibiting Apoptosis via STAT3 Pathway in Patients With Cervical Cancer.
G.H. HAN, J. KIM, H. YUN, H. CHO, J.-Y. CHUNG, J.-H. KIM, S.M. HEWITT (Seoul, Republic of Korea; New York, NY; Bethesda, MD, USA)

Profiling of Serum Extracellular Vesicles Reveals miRNA-4525 as a Potential Biomarker for Advanced Renal Cell Carcinoma.
Y. MURAMATSU-MAEKAWA, K. KAWAKAMI, Y. FUJITA, M. TAKAI, D. KATO, K. NAKANE, T. KATO, T. TSUCHIYA, T. KOIE, Y. MIURA, M. ITO, K. MIZUTANI (Gifu; Tokyo, Japan)


Artesunate-induced Cellular Effects Are Mediated by Specific EPH Receptors and Ephrin Ligands in Breast Carcinoma Cells. T. ZADEH, M. LUCERO, R.P. KANDPAL (Pomona, CA, USA)

MicroRNAs Involved in Small-cell Lung Cancer as Possible Agents for Treatment and Identification of New Targets. U.H. WEIDLE, A. NOPORA (Penzberg, Germany)

Fusion of the Paired Box 3 (PAX3) and Myocardin (MYOCD) Genes in Pediatric Rhabdomyosarcoma. I. PANAGOPoulos, L. GORUNOVA, K. ANDERSEN, M. LUND-IVERSEN, S. TAFTORD, F. MICCI, S. HEIM (Oslo, Norway)

Delayed MRI Enhancement of Colorectal Cancer Liver Metastases Is Associated With Metastatic Mutational Profile. A. SETH, Y. AMEIYI, H. CHEUNG, E. HSIEH, C. LAW, L. MILOT (Toronto, ON, Canada)

Geneic Analysis in Anal and Cervical Cancer: Exploratory Findings About Radiosensitivity in the Profiler Database. E. ROWINSKI, N. MAGNE, W. BOULLETOUR, P. MORENO-ACOSTA, C. DE LA FOURCHADIERS, I. RAY-COQUARD, Q. WANG, J.-Y. BLAY, O. TREDAN (Saint-Priest-en-Jarez; Lyon, France; Bogota, Colombia)

Cancer-associated Fibroblast-derived Spondin-2 Promotes Motility of Gastric Cancer Cells. S. KURAMITSU, T. MASUDA, Q. HU, T. TOBO, M. YASHIRO, A. FUJII, A. KITAGAWA, T. ABE, H. OTSU, S. ITO, E. OKI, M. MORI, K. MIMORI (Beppu; Fukuoka; Osaka, Japan)

OIP5-ASI Promotes Proliferation of Non-small-cell Lung Cancer and Head and Neck Squamous Cell Carcinoma Cells. Y. KOTAKE, N. MATSUNAGA, T. WAKASAKI, R. OKADA (Fukuoka, Japan)

Clear Cell Renal Carcinoma: MicroRNAs With Efficacy in Preclinical In Vivo Models. U.H. WEIDLE, A. NOPORA (Penzberg, Germany)

Metabolic Response to the Mitochondrial Toxin 1-Methyl-4-phenylpyridinium (MPP+) in LDH-A/B Double-knockout LS174T Colon Cancer Cells. N. MACK, E. MAZZIO, R. BADISA, K.F.A. SOLIMAN (Tallahassee, FL, USA)


Combination Methionine-methylation-axis Blockade: A Novel Approach to Target the Methionine Addiction of Cancer. T. HIGUCHI, Q. HAN, N. SUGISAWA, J. YAMAMOTO, N. YAMAMOTO, K. HAYASHI, H. KIMURA, S. MIWA, K. IGRASHI, M. BOUVE, S.R. SINGH, H. TSUCHIYA, R.M. HOFFMAN (San Diego, CA; Frederick, MD, USA; Kanazawa, Japan)
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**Selection of Recent Articles**

- Real-time IR700 Fluorescence Imaging During Near-infrared Photoinmunotherapy Using a Clinically-approved Camera for Indocyanine Green. S. OKUYAMA, D. FUJIMURA, F. INAGAKI, R. OKADA, Y. MARUOKA, H. WAKIYAMA, T. KATO, A. FURUSAWA, P.L. CHOYKE, H. KOBAYASHI (Kyoto, Japan; Bethesda, MD, USA)


- Discordant PET Findings and a High Relapse Rate Characterize Hispanics With Hodgkin’s Lymphoma Treated With ABVD. S. GAUR, A. PHILIPPOVSKYIY, U. ONYEDIKA, A.M. EIRING, A.K. DWIVEDI, A. ORAZI (El Paso, TX, USA)

- Absolute Increase in the Number and Proportion of Peripheral Eosinophils Associated With Immune Checkpoint Inhibitor Treatment in Non-small Cell Lung Cancer Patients. H. OSAWA, T. SHIOZAWA, S. OKAUCHI, Y. SASATANI, G. OHARA, S. SATO, K. MIYAZAKI, T. KODAMA, K. KAGOHASHI, H. SATOH, N. HIZAWA (Tsukuba; Mito; Ryugasaki, Japan)


- Occurrence of Second Primary Malignancies in Patients With Primary Optic Nerve Gliomas: A Surveillance, Epidemiology, and End Results Analysis. Z. HUSSAIN, J. KHAN, A. SAEED, F. DIHOWM (Portland, ME; El Paso, TX, USA)

- A Treatment-free Interval Allowed by Ponatinib as Fourth-line Therapy. A. BULLA, U. MARKOVIC, C. BELLOFIORE, S. STELLA, C. CONTICELLO, F. DI RAIMONDO, F. STAGNO (Catania, Italy)

- Efficacy of Combination Chemotherapy With Docetaxel, Estramustine and Carboplatin in Men With Castration-resistant Prostate Cancer. K. HIKITA, M. HONDA, R. SHIMIZU, S. TERAOKA, B. KAWAMOTO, T. YUMIOKA, P. TSOUNAPI, H. IWAMOTO, S. MORIZANE, A. TAKENAKA (Tottori, Japan)

- Cannabidiol May Prolong Survival in Patients With Glioblastoma Multiforme. R. LIKAR, M. KOESTENBERGER, M. STUTSCHNIG, G. NAHLER (Klagenfurt am Wörthersee; Graz; Vienna, Austria)


- Improved Chemotherapy Outcomes of Patients With Small-cell Lung Cancer Treated With Combined Alkalization Therapy and Intravenous Vitamin C. R. HAMAGUCHI, R. NARUI, H. MORIKAWA, H. WADA (Kyoto, Japan)