Assoc. Prof. Neslihan AYGÜN KOCABAŞ, Ph.D. E.R.T.
ORCID: orcid.org/0000-0000-0000-0000
Total Research & Technology Feluy Zone Industrielle Feluy, Refining & Chemicals, Strategy - Development - Research, Toxicology Manager, Seneffe, BELGIUM
neslihan.aygun.kocabas@total.com

Prof. Rob VERPOORTE, Ph.D.
ORCID: orcid.org/0000-0001-6180-1424
Leiden University, Natural Products Laboratory, Leiden, NETHERLANDS
verpoort@chem.leidenuniv.nl

Prof. Yusuf ÖZTÜRK, Ph.D.
Anadolu University, Faculty of Pharmacy, Department of Pharmacognosy, Eskişehir, TÜRKEY
ORCID: 0000-0003-1234-9018

Prof. Tayfun UZBAY, Ph.D.
Uskudar University, Faculty of Medicine, Department of Medical Pharmacology, Istanbul, TÜRKEY
ORCID: orcid.org/0000-0002-9784-5637

Prof. K. Hüsnü Can BAŞER, Ph.D.
Anadolu University, Faculty of Pharmacy, Department of Pharmacognosy, Eskişehir, TÜRKEY
ORCID: 0000-0003-2710-0231

Prof. Erdem YEŞİLADA, Ph.D.
Yeditepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, TÜRKEY
ORCID: 0000-0003-1234-9018

Prof. Yılmaz ÇAPAN, Ph.D.
Hacettepe University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, TÜRKEY
ORCID: 0000-0002-1348-6036

Prof. Bengi USLU, Ph.D.
Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, TÜRKEY
ORCID: 0000-0002-7379-4913

Prof. Ahmet AYDIN, Ph.D.
Yeditepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Istanbul, TÜRKEY
ORCID: 0000-0003-3499-6435

Prof. Robert RAPOPORT, Ph.D.
ORCID: orcid.org/0000-0001-8554-1014
Cincinnati University, Faculty of Pharmacy, Department of Pharmacology and Cell Biophysics, Cincinnati, USA
robertrapoport@gmail.com

Prof. Tayfun UZBAY, Ph.D.
ORCID: orcid.org/0000-0002-9784-5637
Uskudar University, Faculty of Medicine, Department of Medical Pharmacology, Istanbul, TÜRKEY
tayfun.uzbay@uskd.edu.tr

Prof. Sevda ŞENEL, Ph.D.
Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, TÜRKEY
ORCID: 0000-0002-1467-3471

Prof. Sevim ROLLAS, Ph.D.
Marmara University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Istanbul, TÜRKEY
ORCID: 0000-0002-4144-6952

Prof. Göksel ŞENER, Ph.D.
Fenerbahçe University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Istanbul, TÜRKEY
ORCID: 0000-0001-7444-6193

Prof. Nurşen BAŞARAN, Ph.D.
Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Toxicology, Ankara, TÜRKEY
ORCID: 0000-0001-8581-8933

Prof. Engin Umut AKKAYA, Ph.D.
Dalian University of Technology, Department of Analytical Chemistry, Dalian, CHINA
ORCID: 0000-0003-3911-6388

Prof. İlker ERDOĞAN ORHAN, Ph.D.
Gazi University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, TÜRKEY
ORCID: 0000-0002-7379-4913

Prof. Hasan KIRMIZIBEKMEZ, Ph.D.
Yeditepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Istanbul, TÜRKEY
ORCID: 0000-0002-6180-1424

Prof. Tülay ÖZTÜRK, Ph.D.
Anadolu University, Faculty of Pharmacy, Department of Pharmacognosy, Eskişehir, TÜRKEY
ORCID: 0000-0002-7379-4913

Prof. Esra AKKOL, Ph.D.
Gazi University, Faculty of Pharmacy, Department of Pharmaceutics, Ankara, TÜRKEY
ORCID: 0000-0002-5829-7869

Prof. Uğur TAMER, Ph.D.
Gazi University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Ankara, TÜRKEY
ORCID: 0000-0002-1348-6036

Prof. Wolfgang SADEE, Ph.D.
ORCID: orcid.org/0000-0003-1894-6374
Ohio State University, Center for Pharmacogenomics, Ohio, USA
wolfgang.sadee@osumc.edu

Prof. Engin Umut AKKAYA, Ph.D.
Dalian University of Technology, Department of Analytical Chemistry, Dalian, CHINA
ORCID: 0000-0003-3911-6388

Prof. İlker ERDOĞAN ORHAN, Ph.D.
Gazi University, Faculty of Pharmacy, Department of Pharmacognosy, Ankara, TÜRKEY
ORCID: 0000-0002-7379-4913

Prof. Hasan KIRMIZIBEKMEZ, Ph.D.
Yeditepe University, Faculty of Pharmacy, Department of Pharmaceutical Technology, Istanbul, TÜRKEY
ORCID: 0000-0002-6180-1424

*Members of the Advisory Board consist of the scientists who received Science Award presented by TEB Academy in chronological order.
Aims and Scope

The Turkish Journal of Pharmaceutical Sciences is the only scientific periodical publication of the Turkish Pharmacists’ Association and has been published since April 2004. Turkish Journal of Pharmaceutical Sciences journal is regularly published 6 times in a year (February, April, June, August, October, December). The issuing body of the journal is Galenos Yayinevi/Publishing House level. The aim of Turkish Journal of Pharmaceutical Sciences is to publish original research papers of the highest scientific and clinical value at an international level.

The editorial policies are based on the "Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals (ICMJE Recommendations)" by the International Committee of Medical Journal Editors (20, archived at http://www.icmje.org/) rules.

Editorial Independence

Turkish Journal of Pharmaceutical Sciences is an independent journal with independent editors and principles and has no commercial relationship with the commercial product, drug or pharmaceutical company regarding decisions and review processes upon articles.

Abstracted/Indexed In

PubMed
PubMed Central
Web of Science-Emerging Sources Citation Index (ESCI)
SCOPUS SJR
TÜBİTAK/ULAKBİM TR Dizin
ProQuest
Chemical Abstracts Service (CAS)
EBSCO
EMBASE
GALE
Index Copernicus
Analytical Abstracts
International Pharmaceutical Abstracts (IPA)
Medicinal & Aromatic Plants Abstracts (MAPA)
British Library
CSIR INDIA
GOALI
Hinari
OARE
ARDI
AGORA
Türk Atıf Dizini
Türk Medline
UDL-EDGE
J- Gate
Idealonline
CABI

Open Access Policy

This journal provides immediate open access to its content on the principle that making research freely available to the public supports a greater global exchange of knowledge.

Open Access Policy is based on the rules of the Budapest Open Access Initiative (BOAI) http://www.budapestopenaccessinitiative.org/. By “open access” to peer-reviewed research literature, we mean its free availability on the public internet, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself. The only constraint on reproduction and distribution, and the only role for copyright in this domain, should be to give authors control over the integrity of their work and the right to be properly acknowledged and cited.

Correspondence Address

All correspondence should be directed to the Turkish Journal of Pharmaceutical Sciences Editorial Board

Post Address: Turkish Pharmacists’ Association, Mustafa Kemal Mah, 2147 Sok No:3 06610 Çankaya/Ankara, TÜRKİYE
Phone: +90 (312) 409 81 00
Fax: +90 (312) 409 81 09
Web Page: http://turkjps.org
E-mail: turkjps@gmail.com

Permissions

Requests for permission to reproduce published material should be sent to the publisher.

Publisher: Erkan Mor
Address: Molla Gürani Mah. Kaçamak Sok. 21/1 Fındıkzade, Fatih, Istanbul, Türkiye
Telephone: +90 212 621 99 25
Fax: +90 212 621 99 27
E-mail: info@galenos.com.tr

ISSUING BODY CORRESPONDING ADDRESS

Issuing Body: Galenos Yayinevi
Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1, 34093 İstanbul, Türkiye
Phone: +90 212 621 99 25 Fax: +90 212 621 99 27
E-mail: info@galenos.com.tr

Material Disclaimer

The author(s) is (are) responsible for the articles published in the JOURNAL. The editors, editorial board and publisher do not accept any responsibility for the articles.

This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

Publisher Contact

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1 34093 İstanbul, Turkey
Phone: +90 (212) 621 99 25 Fax: +90 (212) 621 99 27
E-mail: info@galenos.com.tr/yayin@galenos.com.tr
Web: www.galenos.com.tr | Publisher Certificate Number: 14521

Publication Date: October 2022
E-ISSN: 2148-6247
International scientific journal published bimonthly.
INSTRUCTIONS TO AUTHORS

Turkish Journal of Pharmaceutical Sciences journal is published 6 times (February, April, June, August, October, December) per year and publishes the following articles:

- Research articles
- Reviews (only upon the request or consent of the Editorial Board)
- Preliminary results/Short communications/Technical notes/Letters to the Editor in every field of pharmaceutical sciences.

The publication language of the journal is English.

The Turkish Journal of Pharmaceutical Sciences does not charge any article submission or processing charges.

A manuscript will be considered only with the understanding that it is an original contribution that has not been published elsewhere.

The Journal should be abbreviated as “Turk J Pharm Sci” when referenced.

The scientific and ethical liability of the manuscripts belongs to the authors and the copyright of the manuscripts belongs to the Journal. Authors are responsible for the contents of the manuscript and accuracy of the references. All manuscripts submitted for publication must be accompanied by the Copyright Transfer Form [copyright transfer]. Once this form, signed by all the authors, has been submitted, it is understood that neither the manuscript nor the data it contains have been submitted elsewhere or previously published and authors declare the statement of scientific contributions and responsibilities of all authors.

Experimental, clinical and drug studies requiring approval by an ethics committee must be submitted to the JOURNAL with an ethics committee approval report including approval number confirming that the study was conducted in accordance with international agreements and the Declaration of Helsinki (revised 2013) (http://www.wma.net/en/30publications/10policies/b3/). The approval of the ethics committee and the fact that informed consent was given by the patients should be indicated in the Materials and Methods section. In experimental animal studies, the authors should indicate that the procedures followed were in accordance with animal rights as per the Guide for the Care and Use of Laboratory Animals (http://oacu.od.nih.gov/regs/guide/guide.pdf) and they should obtain animal ethics committee approval.

Authors must provide disclosure/acknowledgment of financial or material support, if any was received, for the current study.

If the article includes any direct or indirect commercial links or if any institution provided material support to the study, authors must state in the cover letter that they have no relationship with the commercial product, drug, pharmaceutical company, etc. concerned; or specify the type of relationship (consultant, other agreements), if any.

Authors must provide a statement on the absence of conflicts of interest among the authors and provide authorship contributions.

All manuscripts submitted to the journal are screened for plagiarism using the iThenticate software. Results indicating plagiarism may result in manuscripts being returned or rejected.

The Review Process

This is an independent international journal based on double-blind peer-review principles. The manuscript is assigned to the Editor-in-Chief, who reviews the manuscript and makes an initial decision based on manuscript quality and editorial priorities. Manuscripts that pass initial evaluation are sent for external peer review, and the Editor-in-Chief assigns an Associate Editor. The Associate Editor sends the manuscript to at least two reviewers (internal and/or external reviewers). The Associate Editor recommends a decision based on the reviewers’ recommendations and returns the manuscript to the Editor-in-Chief. The Editor-in-Chief makes a final decision based on editorial priorities, manuscript quality, and reviewer recommendations. If there are any conflicting recommendations from reviewers, the Editor-in-Chief can assign a new reviewer.

The scientific board guiding the selection of the papers to be published in the Journal consists of elected experts of the Journal and if necessary, selected from national and international authorities. The Editor-in-Chief, Associate Editors may make minor corrections to accepted manuscripts that do not change the main text of the paper.

In case of any suspicion or claim regarding scientific shortcomings or ethical infringement, the Journal reserves the right to submit the manuscript to the supporting institutions or other authorities for investigation. The Journal accepts the responsibility of initiating action but does not undertake any responsibility for an actual investigation or any power of decision.

The Editorial Policies and General Guidelines for manuscript preparation specified below are based on “Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals (ICMJE Recommendations)” by the International Committee of Medical Journal Editors (20, archived at http://www.icmje.org/).

Preparation of research articles, systematic reviews and meta-analyses must comply with study design guidelines:

INSTRUCTIONS TO AUTHORS

GENERAL GUIDELINES

Manuscripts can only be submitted electronically through the Journal Agent website (http://journalagent.com/tjps/) after creating an account. This system allows online submission and review.

Format: Manuscripts should be prepared using Microsoft Word, size A4 with 2.5 cm margins on all sides, 12 pt Arial font and 1.5 line spacing.

Abbreviations: Abbreviations should be defined at first mention and used consistently thereafter. Internationally accepted abbreviations should be used; refer to scientific writing guides as necessary.

Cover letter: The cover letter should include statements about manuscript type, single-Journal submission affirmation, conflict of interest statement, sources of outside funding, equipment (if applicable), for original research articles.

ETHICS COMMITTEE APPROVAL

The editorial board and our reviewers systematically ask for ethics committee approval from every research manuscript submitted to the Turkish Journal of Pharmaceutical Sciences. If a submitted manuscript does not have ethical approval, which is necessary for every human or animal experiment as stated in international ethical guidelines, it must be rejected on the first evaluation.

Research involving animals should be conducted with the same rigor as research in humans; the Turkish Journal of Pharmaceutical Sciences asks original approval document to show implements the 3Rs principles. If a study does not have ethics committee approval or authors claim that their study does not need approval, the study is consulted to and evaluated by the editorial board for approval.

SIMILARITY

The Turkish Journal of Pharmaceutical Sciences is routinely looking for similarity index score from every manuscript submitted before evaluation by the editorial board and reviewers. The journal uses iThenticate plagiarism checker software to verify the originality of written work. There is no acceptable similarity index; but, exceptions are made for similarities less than 15 %.

REFERENCES

Authors are solely responsible for the accuracy of all references. In-text citations: References should be indicated as a superscript immediately after the period/full stop of the relevant sentence. If the author(s) of a reference is/are indicated at the beginning of the sentence, this reference should be written as a superscript immediately after the author’s name. If relevant research has been conducted in Turkey or by Turkish investigators, these studies should be given priority while citing the literature.

Presentations presented in congresses, unpublished manuscripts, theses, Internet addresses, and personal interviews or experiences should not be indicated as references. If such references are used, they should be indicated in parentheses at the end of the relevant sentence in the text, without reference number and written in full, in order to clarify their nature.

References section: References should be numbered consecutively in the order in which they are first mentioned in the text. All authors should be listed regardless of number. The titles of Journals should be abbreviated according to the style used in the Index Medicus.

Reference Format

Journal: Last name(s) of the author(s) and initials, article title, publication title and its original abbreviation, publication date, volume, the inclusive page numbers. Example: Collin JR, Rathburn JE. Involutional entropion: a review with evaluation of a procedure. Arch Ophthalmol. 1978;96:1058-1064.

Book: Last name(s) of the author(s) and initials, book title, edition, place of publication, date of publication and inclusive page numbers of the cited piece. Example: Herbert L. The Infectious Diseases (1st ed). Philadelphia; Mosby Harcourt; 1999:11-8.


TABLES, GRAPHICS, FIGURES, AND IMAGES

All visual materials together with their legends should be located on separate pages that follow the main text.

Images: Images (pictures) should be numbered and include a brief title. Permission to reproduce pictures that were published elsewhere must be included. All pictures should be of the highest quality possible, in JPEG format, and at a minimum resolution of 300 dpi.

Tables, Graphics, Figures: All tables, graphics or figures should be enumerated according to their sequence within the text and a brief descriptive caption should be written. Any abbreviations used should be defined in the accompanying legend. Tables in particular should be explanatory and facilitate readers’ understanding of the manuscript, and should not repeat data presented in the main text.

MANUSCRIPT TYPES

Original Articles

Clinical research should comprise clinical observation, new techniques or laboratories studies. Original research articles should include title, structured abstract, key words relevant to the content of the article, introduction, materials and methods, results, discussion, study limitations, conclusion references, tables/figures/images and
INSTRUCTIONS TO AUTHORS

Original research articles should have the following sections:

**Introduction:** Should consist of a brief explanation of the topic and indicate the objective of the study, supported by information from the literature.

**Materials and Methods:** The study plan should be clearly described, indicating whether the study is randomized or not, whether it is retrospective or prospective, the number of trials, the characteristics, and the statistical methods used.

**Results:** The results of the study should be stated, with tables/figures given in numerical order; the results should be evaluated according to the statistical analysis methods applied. See General Guidelines for details about the preparation of visual material.

**Discussion:** The study results should be discussed in terms of their favorable and unfavorable aspects and they should be compared with the literature. The conclusion of the study should be highlighted.

**Study Limitations:** Limitations of the study should be discussed. In addition, an evaluation of the implications of the obtained findings/results for future research should be outlined.

**Conclusion:** The conclusion of the study should be highlighted.

**Acknowledgements:** Any technical or financial support or editorial contributions (statistical analysis, English/Turkish evaluation) towards the study should appear at the end of the article.

**References:** Authors are responsible for the accuracy of the references. See General Guidelines for details about the usage and formatting required.

Review Articles

Review articles can address any aspect of clinical or laboratory pharmaceuticals. Review articles must provide critical analyses of contemporary evidence and provide directions of or future research. Most review articles are commissioned, but other review submissions are also welcome. Before sending a review, discussion with the editor is recommended.

Reviews articles analyze topics in depth, independently and objectively. The first chapter should include the title in Turkish and English, an unstructured summary and key words. Source of all citations should be indicated. The entire text should not exceed 25 pages (A, formatted as specified above).
Original Articles

488 Stability Indicating Assay Method for the Quantitative Determination of Olaparib in Bulk and Pharmaceutical Dosage Form
Antima CHAUDHARY, Rajiv TONK, Pankaj DAGUR, Suddhasatiya DEY, Manik GHOSH

498 Investigation of Selected Medicinal Plants for Their Anti-Obesity Properties
Sila Özlem ŞENER, Eyül CİLİZ, Berre Nur ÖZTEKİN, Merve BADEM, Ufuk ÖZGEN

505 Dexamethasone and Citicoline Mitigate Cisplatin-Induced Peripheral Neuropathy: A Novel Experimental Study in Mice
Farid MASOUD, Bohloul HABIBI-ASL, Mohammad CHARKHPOUR, Yashar ASADPOUR, Javad MAHMOUDI

513 Tableting Performance of Maize and Potato Starches Used in Combination as Binder/Disintegrant in Metronidazole Tablet Formulation
Yonni Eshovo APEJI, Rejoice Thomas KAIGAMA, Sani Hadi IBRAHIM, Sophie Nock ANYEBE, Aisha Ohunene ABDUSSALAM, Avosuahi Rukayat OYI

521 Studies on Almond Gum and Gelucire-Based Pellets Prepared by Extrusion and Spheronization for Sustained Release
Ramesh Venkata KANTETI, Omar SARHEED, Hemant YADAV, Quamrul ISLAM, Joshua BOATENG

Mahmoud Abdelfettah MOHAMED, Mohamed El-Kassem Mohamed HASSOUNA

543 Potential Drug Interactions in Adults Living in Manaus: A Real-World Comparison of Two Databases, 2019
Tayanny Margarida Menezes Almeida BIASE, Giulia Sartori BRUNIÉRI, Marcus Tolentino SILVA, Tais Freire GALVÃO

552 Effects of Some Interferon-Related Proteins on Influenza A Virus RNA Polymerase Activity
Elif ÇAĞLAYAN, Kadir TURAN

560 Nasotransmucosal Delivery of Curcumin-Loaded Mucoadhesive Microemulsions for Treating Inflammation-Related CNS Disorders
Mukeshkumar Shamlalbhai PATEL, Snigdha Das MANDAL, Surjyanarayan MANDAL, Shital FALDU, Jayvadan PATEL

572 Fabrication and Evaluation of Matrix Type Novel Transdermal Patch Loaded with Tramadol Hydrochloride
Shankhadip NANDI, Saptarshi MONDAL

583 Analgesic and Sedative-Hypnotic Potentiality of Crude Methanolic Extract of Gomphandra tetrandra (Wall.) Sleumer Leaves
N. M. Mahmudul Alam BHUIYA, Md. Forman HOSSEN, Md. Monirul ISLAM, Moynul HASAN

589 Determination of Metoclopramide Hydrochloride in Pharmaceutical Formulations using N-Oxidation Caroate
Mykola BLAZHEYEVSKYI, Deghinmotei ALFRED-UBENBO, Olena Oleksandrivna MOZGOVA, Valery Petrovich MOROZ

595 Development and Evaluation of Floating Microspheres of Anticonvulsant Drug by 3² Full Factorial Design
Manish BHISE, Karunakar SHUKLA, Sourabh JAIN, Nitin BHAIJIPALE, Suresh SUDKE, Pramod BURAKLE

Reviews

603 Hepcidin as a Potential Biomarker for the Diagnosis of Anemia
Zainab H. FATHI, Jehan A. MOHAMMAD, Zaid M. YOUNUS, Sameer M. MAHMOOD

610 Safety in Cosmetics and Cosmetovigilance, Current Regulations in Türkiye
İmran ALTIOKKA, Melike ÜNER