Editor-in-Chief
Feyyaz ONUR, Prof. Dr.
Ankara University, Ankara, Turkey,
E-mail: onur@pharmacy.ankara.edu.tr
ORCID ID: orcid.org/0000-0001-9172-1126

Vice Editor
Gülgün KILCIĞİL, Prof. Dr.
Ankara University, Ankara, Turkey
E-mail: Gulgun.A.Kilcigil@pharmacy.ankara.edu.tr
ORCID ID: orcid.org/0000-0001-5626-6922

Associate Editors
Rob VERPOORTE, Prof. Dr.
Leiden University, Leiden, Netherlands

Bezhan CHANKVETADZE, Prof. Dr.
Ivane Javakhishvili Tbilisi State University,
Tbilisi, Georgia

Ülkü ÜNDEĞER-BUCURGAT, Prof. Dr.
Hacettepe University, Ankara, Turkey
ORCID ID: orcid.org/0000-0002-6692-0366

Luciano SASO, Prof. Dr.
Sapienze University of Rome, Rome, Italy

Ahmet BAŞARAN, Prof. Dr.
Hacettepe University, Ankara, Turkey

Müge KILIÇARSLAN, Assoc. Prof. Dr.
Ankara University, Ankara, Turkey
ORCID ID: orcid.org/0000-0003-3710-7445

Fernanda BORGES, Prof. Dr.
Porto University, Porto, Portugal

Tayfun UZBAY, Prof. Dr.
Üsküdar University, İstanbul, Turkey

İpek SUNTAR, Assoc. Prof. Dr.
Gazi University, Ankara, Turkey
ORCID ID: orcid.org/0000-0001-5626-6922

Advisory Board
Ali H. MERİÇLİ, Prof. Dr., Near East University, Nicosia, Turkish Republic of Northern Cyprus
Berrin ÖZÇELİK, Prof. Dr., Gazi University, Ankara, Turkey
Betül DORTUNÇ, Prof. Dr., Marmara University, Istanbul, Turkey
Christine LAFFORGUE, Prof. Dr., Paris-Sud University, Paris, France
Cihat ŞAFAK, Prof. Dr., Hacettepe University, Ankara, Turkey
Filiz ÖNER, Prof. Dr., Hacettepe University, Ankara, Turkey
Gülen ÖTÜK, Prof. Dr., Istanbul University, Istanbul, Turkey
Hermann BOLT, Prof. Dr., Dortmund University Leibniz Research Centre, Dortmund, Germany
Hildebert WAGNER, Prof. Dr., Ludwig-Maximilians University, Munich, Germany
Jean-Alain FEHRENTZ, Prof. Dr., Montpellier University, Montpellier, France
Joerg KREUTER, Prof. Dr., Johann Wolfgang Goethe University, Frankfurt, Germany
Makbule AŞIKOĞLU, Prof. Dr., Ege University, İzmir, Turkey
Meral KEYER UYSAL, Prof. Dr., Marmara University, Istanbul, Turkey
Meral TORUN, Prof. Dr., Gazi University, Ankara, Turkey
Mümtaz İŞCAN, Prof. Dr., Ankara University, Ankara, Turkey
Robert RAPOPORT, Prof. Dr., Cincinnati University, Cincinnati, USA
Sema BURGAZ, Prof. Dr., Gazi University, Ankara, Turkey
Wolfgang SADEE, Prof. Dr., Ohio State University, Ohio, USA
Yasemin YAZAN, Prof. Dr., Anadolu University, Eskişehir, Turkey
Yusuf ÖZTÜRK, Prof. Dr., Anadolu University, Eskişehir, Turkey
Yücel KADIOĞLU, Prof. Dr., Atatürk University, Erzurum, Turkey
Zühere ŞENTÜRK, Prof. Dr., Yüzüncü Yıl University, Van, Turkey
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 is an independent international open access periodical journal based on double-blind peer-review principles. The journal is regularly published 3 times a year and the publication language is English. The issuing body of the journal is Galenos Yayinevi/Publishing House. 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 target audience includes specialists and physicians in all fields of pharmaceutical sciences. 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 (2016, 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
Web of Science-Emerging Sources Citation Index (ESCI)
SCOPUS SJR
Chemical Abstracts Service (CAS)
EBSCO
EMBASE
Analytical Abstracts
International Pharmaceutical Abstracts (IPA)
Medicinal & Aromatic Plants Abstracts (MAPA)
TÜBITAK/ULAKBİM TR Dizin
Türkiye Atıf Dizini

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
Editor-in-Chief, Feyyaz ONUR, Prof.Dr.
Address: Ankara University, Faculty of Pharmacy, Department of Analytical Chemistry, 06100 Tandoğan-Ankara, TURKEY
E-mail: onur@pharmacy.ankara.edu.tr

PERMISSION
Requests for permission to reproduce published material should be sent to the editorial office. Editor-in-Chief, Prof. Dr. Feyyaz ONUR

ISSUING BODY CORRESPONDING ADDRESS
Issuing Body : Galenos Yayınevi
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

INSTRUCTIONS FOR AUTHORS
Instructions for authors are published in the journal and on the website http://turkjps.org

MATERIAL DISCLAIMER
The author(s) is (are) responsible for the articles published in the JOURNAL.
The editor, 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
Erkan Mor
Publication Director
Nesrin Çolak
Web Coordinators
Soner Yıldırım
Turgay Akpınar
Graphics Department
Ayda Alaca
Çiğdem Birinci

Project Coordinators
Eda Kolukaya
Hatice Bulta
Lütfüye Ayhan İrtem
Melis Kuroğlu
Zeynep Altındağ

Project Assistants
Esra Semerci
Gülnay Selimoğlu
Sedanur Şert
Finance Coordinator
Sevinc Çakmak

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
Printing at: Bizim Basım Limited Şirketi
Litros yolu 2. Matbaacılar Sitesi ZD1 Topkapı -İstanbul
Phone: +90 212 709 75 25 Fax: +90 212 709 75 30
Printing date: November 2017
ISSN: 1304-530X
E-ISSN: 2148-6247
INSTRUCTIONS TO AUTHORS

Turkish Journal of Pharmaceutical Sciences is the official double peer-reviewed publication of The Turkish Pharmacists’ Association. This journal is published every 4 months (3 issues per year; April, August, December) 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 or 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 reviewers must review the manuscript within 21 days. 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.


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


STROBE statement, a checklist of items that should be included in reports of observational studies (http://www.strobe-statement.org/);


Authorship

Each author should have participated sufficiently in the work to assume public responsibility for the content. Any portion of a manuscript that is critical to its main conclusions must be the responsibility of at least 1 author.
GENERAL GUIDELINES

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

The manuscripts are archived according to ICMJE, Web of Science-Emerging Sources Citation Index (ESCI), SCOPUS, Chemical Abstracts, EBSCO, EMBASE, Analytical Abstracts, International Pharmaceutical Abstracts, MAPA(Medicinal & Aromatic Plants Abstracts), Tübitak/Ulakbim Turkish Medical Database, Türkiye Citation Index Rules.

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.

The ORCID (Open Researcher and Contributor ID) number of the author(s) of a reference is/are indicated at the beginning of the sentence, 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, they should not be indicated as references. If such references are used, they must be taken into consideration according to the style used in the Index Medicus.

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.

REPRESENTATIONS

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 date and its original abbreviation, publication date, volume, the inclusive page numbers. Example: Collin JR, Rathbun 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, chapter title, book editors, book title, edition, place of publication, date of publication and inclusive page numbers of the extract cited.


Book Chapter: Last name(s) of the author(s) and initials, chapter title, book editors, book title, edition, place of publication, date of publication and inclusive page numbers of the cited piece.


TABLES, GRAPHICS, 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 acknowledgement sections. Title, abstract and key words should be written in both Turkish and English. The manuscript should be formatted in accordance with the above-mentioned guidelines and should not exceed 16 A4 pages.

Title Page: This page should include the title of the manuscript, short title, name(s) of the authors and author information. The following descriptions should be stated in the given order:

1. Title of the manuscript (Turkish and English), as concise and explanatory as possible, including no abbreviations, up to 135 characters
2. Short title (Turkish and English), up to 60 characters
3. Name(s) and surname(s) of the author(s) (without abbreviations and academic titles) and affiliations
4. Name, address, e-mail, phone and fax number of the corresponding author
5. The place and date of scientific meeting in which the manuscript was presented and its abstract published in the abstract book, if applicable

Abstract: A summary of the manuscript should be written in both Turkish and English. References should not be cited in the abstract. Use of abbreviations should be avoided as much as possible; if any abbreviations are used, they must be taken into consideration
INSTRUCTIONS TO AUTHORS

Objectives: The aim of the study should be clearly stated.

Materials and Methods: The study and standard criteria used should be defined; it should also be indicated whether the study is randomized or not, whether it is retrospective or prospective, and the statistical methods applied should be indicated, if applicable.

Results: The detailed results of the study should be given and the statistical significance level should be indicated.

Conclusion: Should summarize the results of the study, the clinical applicability of the results should be defined, and the favorable and unfavorable aspects should be declared.

Keywords: A list of minimum 3, but no more than 5 key words must follow the abstract. Key words in English should be consistent with "Medical Subject Headings (MESH)" (www.nlm.nih.gov/mesh/MBrowser.html). Turkish key words should be direct translations of the terms in MESH.

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 (A4, formatted as specified above).

CORRESPONDENCE

All correspondence should be directed to the Turkish Journal of Pharmaceutical Sciences editorial board;

Post: Turkish Pharmacists’ Association

Address: Willy Brandt Sok. No: 9 06690 Ankara, TURKEY

Phone: +90 312 409 8136

Fax: +90 312 409 8132

Web Page: http://turkjps.org/home/

E-mail: onur@pharmacy.ankara.edu.tr
Original articles

213 Quetiapine Fumarate Extended-release Tablet Formulation Design Using Artificial Neural Networks

Ketiapin Fumarat Etkin Maddesini İçeren Uzatılmış Salımlı Tablet Formülasyonlarının Yapay Sinir Ağları ile Tasarımı

Esher ÖZÇELİK, Burcu MESUT, Buket AKSU, Yıldız ÖZOY

222 Cytotoxic Activities of Certain Medicinal Plants on Different Cancer Cell Lines

Bazı Tıbbi Bitkilerin Farklı Kanser Hücre Hatlarında Sitotoksik Aktiviteleri

Deniz UĞUR, Hatice GÜNEŞ, Fatma GÜNEŞ, Ramazan MAMMADOV

231 In Vitro Cytotoxic and Anti-inflammatory Activities of Tanacetum argenteum (Lam.) Willd. subsp. argenteum Extract

Tanacetum argenteum subsp. argenteum Ekstrelerinin In Vitro Sitotoksik ve Anti-inflamatıvar Etkileri

Gökay ALBAYRAK, Åya NALBANTSıOY, Şüra BAYKAN

237 Polymorphisms and Protein Expressions of Glutathione S-transferase M1 and T1 in Non-Small Cell Lung Cancer

Küçük Hücreli Dişi Akciğer Kanserinde Glutatyon S-transferaz M1 ve T1 Polimorfizm ve Protein İfade

Murat KILIÇ, Ahmet Oğuz ADA, Serpil OĞUZTÜZÜN, Funda DEMİRAĞ, Sezgin ÇELİK, Pınar BIÇAKÇIOĞLU, Mümtaz İŞCAN

243 Histopathology Study of Alginate Microspheres Containing Ovalbumin on Liver and Kidney Following Oral

Administration and Evaluation of Uptake by Peyer’s Plaque

Oral Uygulamaya Takiben Ovalbümin İçeren Algın Mikrokürelerinin Karaciğer ve Böbrekte Histopatoloji Çalışması ve Peyer

Plakları Tarafından Alımın Değerlendirilmesi

Dewi Melani HARIYADI, Esti HENDRADI, Idha KUSUMAWATI, Fauzia AZZAHRÁ

251 A Synchronous Fluorescence Spectrofluorometric Method for the Simultaneous Determination of Clonazepam

and Paroxetine Hydrochloride in Combined Pharmaceutical Dose Form

Kombine Farmasötik İlaç Şekillerinde Klonozepam ve Parokssetin Hidroklorür’ün Aynı Anda Belirlenmeleri İçin Senkronize

Spektroflorimetrik Yöntem

Jalpa U. PATEL, Usmangani K. CHHALOTIYA

257 The Ameliorative Effects of Pycnogenol® onLiver Ischemia-Reperfusion Injury in Rats

Sıçanlarda Karaciğer Iskemi Reperfüzyon Hasarında Piknogenol®‘ün İyileştirici Etkileri

Mehmet TOKAÇ, Merve BACANLI, Ersin Gürkan DUMLU, Sevap AYDIN, Merve ENGİN, Birkan BÖZKURT, Abdüssamed YALÇIN, Özcan EREL, Mehmet KILIÇ, Nurşen BAŞARAN

264 Ethical Overview of Pharmaceutical Industry Policies in Turkey from Various Perspectives

Türkiye’de İlaç Sanayi Politikalarına Çeşitli Perspektiflerden Etki Bakış

Murat ORAL, Gülbin ÖZÇELİKAY

274 Use of Non-steroidal Anti-inflammatory Drugs for Chemoprevention of Inflammation-induced Prostate Cancer

İflamasyonla Tetiklenen Prostata Kanserleşmesinin Önleyici Tedavisinde Non-streoidal Anti-inflamatıvar ilaç Kullanımı

Bilge DEBELEÇ BÜTÜNER, Mert Burak ÖZTÜRK

280 Physicochemical Characterization and In Vitro Dissolution Test of Quercetin-Succinic Acid Co-crystals Prepared

Using Solvent Evaporation

Çözücü Buharlaştırma ile Hazırlanan Kersetin-Süksinik Asit Ko-kristalinin In Vitro Çözünme Testi ve Fizikokimyasal

Karakterizasyonu

Dwi SETYAWAN, Indah Pudji OKTAVIA, Rizka FARIZKA, Retno SARI
285  Synthesis and Pharmacologic Evaluation of Some Benzimidazole Acetohydrazide Derivatives as EGFR Inhibitors
EGFR İnhibitörü Olarak Bazı Asetohidrazit Türevi Benzimidazolların Sentezi ve Farmakolojik Değerlendirilmesi
Serkan DEMİREL, Gülşün AYHAN KILCIGİL, Zümra KARA, Berna GÜVEN, Arzu ONAY BEŞİKCİ

290  Cytotoxic, Phytotoxic, and Insecticidal Activities of Chrysophthalmum montanum (DC.) Boiss.
Chrysophthalmum montanum (DC.) Boiss. 'un Sitotoksik, Fitotoksik ve İnsektisidal Aktiviteleri
Fatma AYAZ, Nurgün KÜÇÜKBOYACI, Hayrî DUMAN, Bilge ŞENER, Muhammad Iqbal CHOUHARY

294  Substance Abuse Profiles of Patients Admitted to the Alcohol and Drug Addiction Research, Treatment, and
Education Center in Turkey
Alkol ve Madde Bağımlılığı Araştırma, Tedavi ve Eğitim Merkezi Birimi’nde Yatan Hastaların Madde Kullanım Profili-Türkiye
Fadime CANBOLAT, Aykut KUL, Murat ÖZDEMİR, Uğur ATIK, Ahmet AYDIN, S. Tuncel ÖZDEN, K. Nevzat TARHAN

304  A Cost Saving and Waste Minimization Study about Handling of the Antineoplastic Agents
Antineoplastik İlaç Hazırlamada Tibbi Malzeme Tasarrufu ve Atık İlaç Miktarının Azaltılması
Metin Deniz KARAKOÇ

Review articles

311  Lycopene: Is it Beneficial to Human Health as an Antioxidant?
Likopen: Antioksidan Olarak İnsan Sağlığına Faydalı mı?
Merve BACANLI, Nurşen BAŞARAN, A. Ahmet BAŞARAN

319  Cytochrome P-450 Polymorphisms and Clinical Outcome in Patients with Non-Small Cell Lung Cancer
Küçük Hücreli Dişi Akciğer Kanseri Hastalarında Sitokrom P-450 Polimorfizm ve Klinik Sonuçları
Mürşide Ayşe DEMİREL, İpek SÜNTAR
## CONTENTS

### Original articles

**Quetiapine Fumarate Extended-release Tablet Formulation Design Using Artificial Neural Networks**  
Esher ÖZÇELİK, Burkcu MESUT, Bukek AKSU, Yıldız ÖZSOY ................................................................. 213

**Cytotoxic Activities of Certain Medicinal Plants on Different Cancer Cell Lines**  
Deniz ÜGÜR, Hatice GÜNEŞ, Fatma GÜNEŞ, Ramazan MAMMADOY ....................................................... 222

**In Vitro Cytotoxic and Anti-inflammatory Activities of Tanacetum argenteum (Lam.) Willd. subsp. argenteum Extract**  
Gökay ALBAYRAK, Ayşe NALBANTSOY, Şüra BAYKAN ............................................................... 231

**Polymorphisms and Protein Expressions of Glutathione S-Transferase M1 and T1 in Non-Small Cell Lung Cancer**  
Murat KILIÇ, Ahmet Oğuz ADA, Serpil OĞUZTÜRK, Funda DEMİRdağ, Sezgin ÇELİK, Pınar BİÇAKÇIOĞLU, Mümzat İŞCAN .......................................................... 237

**Histopathology Study of Alginate Microspheres Containing Ovalbumin on Liver and Kidney Following Oral Administration and Evaluation of Uptake by Peyer’s Plaque**  
Dewi Melani HARIYADI, Esti HENDRADI, Ida KUSUMAWATI, Fauzia AZZAHR ........................................ 243

**A Synchronous Fluorescence Spectrofluorometric Method for the Simultaneous Determination of Clonazepam and Paroxetine Hydrochloride in Combined Pharmaceutical Dose Form**  
Jalpa U. PATEL, Usmangani K. CHHALOTIYA .......................................................... 251

**The Ameliorative Effects of Pycnogenol® on Liver Ischemia-Reperfusion Injury in Rats**  
Mehmet TOKAC, Merve BACANLI, Ersin Gürkan DUMLU, Sevap AYDIN, Merve ENGİN, Birkân BOZKURT, Abdüssamed YALÇIN, Özcan EREL, Mehmet KILIÇ, Nursen BAŞARAN .......................................................... 257

**Ethical Overview of Pharmaceutical Industry Policies in Turkey from Various Perspectives**  
Murat ORAL, Gülbin ÖZÇELİKAY ........................................................................................................ 264

**Use of Non-steroidal Anti-inflammatory Drugs for Chemoprevention of Inflammation-induced Prostate Cancer**  
Bilge DEBELEÇ BÜTÜNER, Mert Burak ÖZTÜRK ........................................................................ 274

**Physicochemical Characterization and In Vitro Dissolution Test of Quercetin-Succinic Acid Co-crystals Prepared Using Solvent Evaporation**  
Dwi SETYAWAN, Indah Pudji OKTAVIA, Riza FARIZKA, Retno SARI ................................................ 280

**Synthesis and Pharmacologic Evaluation of Some Benzimidazole Acetohydrazide Derivatives as EGFR Inhibitors**  
Serkan DEMİREL, Gülğün AYHAN KILÇIĞIL, Zümit KARA, Benna GÜVEN, Arzu ONAY BEŞİKÇİ ............. 285

**Cytoxic, Phytotoxic, and Insecticidal Activities of Chrysophthalmum montanum (DC.) Boiss.**  
Fatma AYAZ, Nursen KÜÇÜKBOYACI, Hayri DUMAN, Bilge ŞENER, Muhammad Iqbal CHOUHARY ............ 290

**Substance Abuse Profiles of Patients Admitted to the Alcohol and Drug Addiction Research, Treatment, and Education Center in Turkey**  
Fadime CANBOLAT, Aykut KUL, Murat ÖZDEMİR, Uğur ATIK, Ahmet AYDIN, S. Tuncel ÖZDEN, K. Nevzat TARHAN ... 294

**A Cost Saving and Waste Minimization Study About Handling of the Antineoplastic Agents**  
Metin Deniz KARAKOÇ ............................................................................................................ 304

### Review articles

**Lycopene: Is it Beneficial to Human Health as an Antioxidant?**  
Merve BACANLI, Nursen BAŞARAN, A. Ahmet BAŞARAN .................................................................. 311

**Cytochrome P-450 Polymorphisms and Clinical Outcome in Patients with Non-Small Cell Lung Cancer**  
Mümzat İŞCAN, Ahmet Oğuz ADA .................................................................................. 319

**The Role of Secondary Metabolites on Gynecologic Cancer Therapy: Some Pathways and Mechanisms**  
Mürşide Ayşe DEMİREL, İpek SÜNTAR ...................................................................................... 324