

E-ISSN: 2148-6247



Turkish Journal of PHARMACEUTICAL SCIENCES

An Official Journal of the Turkish Pharmacists' Association, Academy of Pharmacy

Volume: **23** Issue: **2** April **2026**



www.turkjps.org



PubMed
Central

PubMed

Scopus

TRDizin



Turkish Journal of PHARMACEUTICAL SCIENCES

OWNER

Mehmet İrfan DEMİRCİ on behalf of the Turkish Pharmacists' Association

Editor-in-Chief

Prof. S. Kutay DEMİRKAN, Pharm.D.

Hacettepe University Faculty of Pharmacy, Department of Clinical Pharmacy, Ankara, Türkiye
E-mail: ktydmrkn@gmail.com

Associate Editors

Prof. Betül OKUYAN, Ph.D.

Marmara University Faculty of Pharmacy, Department of Clinical Pharmacy,
İstanbul, Türkiye
E-mail: betulokuyan@gmail.com

Prof. İ. İrem TATLI ÇANKAYA, Ph.D.

Hacettepe University Faculty of Pharmacy, Department of Pharmaceutical Botany,
Ankara, Türkiye
E-mail: itatli@hacettepe.edu.tr

Prof. Hande SİPAHİ, Ph.D.

University of Health Sciences Faculty of Pharmacy, Department of Pharmaceutical
Toxicology, İstanbul, Türkiye
E-mail: handesipahi@hotmail.com

Assoc. Prof. Canan OĞAN HASÇİÇEK, Ph.D.

Ankara University Faculty of Pharmacy, Department of Pharmaceutical Technology,
Ankara, Türkiye
E-mail: cogan@pharmacy.ankara.edu.tr

Editorial Board

Prof. Afonso Miguel CAVACO, Ph.D.

Lisbon University Faculty of Pharmacy, Department of Pharmacy, Pharmacology and
Health Technologies, Lisboa, Portugal
E-mail: acavaco@campus.ul.pt

Prof. Bambang KUSWANDI, Ph.D.

Chemo and Biosensors Group, Faculty of Pharmacy University of Jember, East Java,
Indonesia
E-mail: b_kuswandi.farmasi@unej.ac.id

Prof. Bezhan CHANKVETADZE, Ph.D.

Ivane Javakhishvili Tbilisi State University, Institute of Physical and Analytical
Chemistry, Tbilisi, Georgia
E-mail: jpba_bezhan@yahoo.com

Prof. Blanca LAFFON, Ph.D.

DICOMOSA group, Advanced Scientific Research Center (CICA), University of A
Coruña, Department of Psychology, Area Psychobiology, Central Services of Research
Building (ESCI), Campus Elviña s/n, A Coruña, Spain
E-mail: blanca.laffon@udc.es

Prof. Christine LAFFORGUE, Ph.D.

Paris Saclay University Faculty of Pharmacy, Department of Dermopharmacology and
Cosmetology, Paris, France
E-mail: christine.lafforgue@universite-paris-saclay.fr

Prof. Dietmar FUCHS, Ph.D.

Innsbruck Medical University, Center for Chemistry and Biomedicine, Institute of
Biological Chemistry, Biocenter, Innsbruck, Austria
E-mail: dietmar.fuchs@i-med.ac.at

Prof. Fernanda BORGES, Ph.D.

Porto University Faculty of Sciences, Department of Chemistry and Biochemistry,
Porto, Portugal
E-mail: fborges@fc.up.pt

Prof. Francesco EPIFANO, Ph.D.

Università degli Studi G. d'Annunzio Chieti e Pescara, Chieti CH, Italy
E-mail: francesco.epifano@unich.it

Prof. Göksel ŞENER, Ph.D.

Fenerbahçe University Faculty of Pharmacy, Department of Pharmacology, İstanbul,
Türkiye
E-mail: gsener@marmara.edu.tr

Prof. Gülbin ÖZÇELİKAY, Ph.D.

Ankara University Faculty of Pharmacy, Department of Pharmacy Management,
Ankara, Türkiye
E-mail: gozcelikay@ankara.edu.tr

Prof. Hermann BOLT, Ph.D.

Dortmund University, Leibniz Research Centre, Institute of Occupational Physiology,
Dortmund, Germany
E-mail: bolt@ifado.de

Prof. Hildebert WAGNER, Ph.D.

Ludwig-Maximilians University, Center for Pharmaceutical Research, Institute of
Pharmacy, Munich, Germany
E-mail: h.wagner@cup.uni-muenchen.de



Turkish Journal of PHARMACEUTICAL SCIENCES

Editorial Board

Prof. K. Arzum ERDEM GÜRSAN, Ph.D.

Ege University Faculty of Pharmacy, Department of Analytical Chemistry, İzmir, Türkiye

E-mail: arzum.erdem@ege.edu.tr

Prof. Luciano SASO, Ph.D.

Sapienze University Faculty of Pharmacy and Medicine, Department of Physiology and Pharmacology "Vittorio Ersamer", Rome, Italy

E-mail: luciano.saso@uniroma1.it

Prof. Maarten J. POSTMA, Ph.D.

University of Groningen (Netherlands), Department of Pharmacy, Unit of Pharmacoepidemiology and Pharmacoeconomics, Groningen, Holland

E-mail: m.j.postma@rug.nl

Prof. Meriç Köksal AKKOÇ, Ph.D.

Yeditepe University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, İstanbul, Türkiye

E-mail: merickoksal@yeditepe.edu.tr

Prof. Robert RAPOPORT, Ph.D.

Cincinnati University Faculty of Pharmacy, Department of Pharmacology and Cell Biophysics, Cincinnati, USA

E-mail: robertrapoport@gmail.com

Prof. Rob VERPOORTE, Ph.D.

Leiden University, Natural Products Laboratory, Leiden, Netherlands

E-mail: verpoort@chem.leidenuniv.nl

Prof. Tayfun UZBAY, Ph.D.

Üsküdar University Faculty of Medicine, Department of Medical Pharmacology, İstanbul, Türkiye

E-mail: tayfun.uzbay@uskudar.edu.tr

Prof. Wolfgang SADEE, Ph.D.

Ohio State University, Center for Pharmacogenomics, Ohio, USA

E-mail: wolfgang.sadee@osumc.edu

Assoc. Prof. Nadja Cristhina DE SOUZA PINTO, Ph.D.

University of São Paulo, Institute of Chemistry, São Paulo, Brazil

E-mail: nadja@iq.usp.br

Assoc. Prof. Neslihan Aygün KOCABAŞ, Ph.D. E.R.T

Total Research and Technology Feluy Zone Industrielle Feluy, Refining and Chemicals, Strategy-Development-Research, Toxicology Manager, Seneffe, Belgium

E-mail: neslihan.aygun.kocabas@total.com



Turkish Journal of PHARMACEUTICAL SCIENCES

Advisory Board

Prof. Yusuf ÖZTÜRK, Ph.D.

Anadolu University Faculty of Pharmacy, Department of Pharmacology, Eskişehir, Türkiye

Prof. Tayfun UZBAY, Ph.D.

Üsküdar University Faculty of Medicine, Department of Medical Pharmacology, İstanbul, Türkiye

ORCID: orcid.org/0000-0002-9784-5637

Prof. K. Hüsnü Can BAŞER, Ph.D.

Anadolu University Faculty of Pharmacy, Department of Pharmacognosy, Eskişehir, Türkiye

Prof. Yılmaz ÇAPAN, Ph.D.

Hacettepe University Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Türkiye

Prof. Sibel A. ÖZKAN, Ph.D.

Ankara University Faculty of Pharmacy, Department of Analytical Chemistry, Ankara, Türkiye

Prof. Ekrem SEZİK, Ph.D.

İstanbul Health and Technology University Faculty of Pharmacy, Department of Pharmacognosy, İstanbul, Türkiye

Prof. Gönül ŞAHİN, Ph.D.

Eastern Mediterranean University Faculty of Pharmacy, Department of Pharmaceutical Toxicology, Famagusta, Cyprus

Prof. Sevdâ ŞENEL, Ph.D.

Hacettepe University Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Türkiye

Prof. Sevim ROLLAS, Ph.D.

Marmara University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, İstanbul, Türkiye

Prof. Göksel ŞENER, Ph.D.

Fenerbahçe University Faculty of Pharmacy, Department of Pharmacology, İstanbul, Türkiye

ORCID: 0000-0001-7444-6193

Prof. Erdal BEDİR, Ph.D.

İzmir Institute of Technology, Department of Bioengineering, İzmir, Türkiye

Prof. Nurşen BAŞARAN, Ph.D.

Hacettepe University Faculty of Pharmacy, Department of Pharmaceutical Toxicology, Ankara, Türkiye

Prof. Bensus KARAHALİL, Ph.D.

Gazi University Faculty of Pharmacy, Department of Pharmaceutical Toxicology, Ankara, Türkiye

Prof. Betül DEMİRCİ, Ph.D.

Anadolu University Faculty of Pharmacy, Department of Pharmacognosy, Eskişehir, Türkiye

Prof. Bengi USLU, Ph.D.

Ankara University Faculty of Pharmacy, Department of Analytical Chemistry, Ankara, Türkiye

Prof. Ahmet AYDIN, Ph.D.

Yeditepe University Faculty of Pharmacy, Department of Pharmaceutical Toxicology, İstanbul, Türkiye

Prof. İlkey ERDOĞAN ORHAN, Ph.D.

Gazi University Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Türkiye

Prof. Ş. Güniz KÜÇÜKGÜZEL, Ph.D.

Fenerbahçe University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, İstanbul, Türkiye

Prof. Engin Umut AKKAYA, Ph.D.

Dalian University of Technology, Department of Chemistry, Dalian, CHINA

Prof. Esra AKKOL, Ph.D.

Gazi University Faculty of Pharmacy, Department of Pharmacognosy, Ankara, Türkiye

Prof. Erem BİLENSOY, Ph.D.

Hacettepe University Faculty of Pharmacy, Department of Pharmaceutical Technology, Ankara, Türkiye

Prof. Uğur TAMER, Ph.D.

Gazi University Faculty of Pharmacy, Department of Analytical Chemistry, Ankara, Türkiye

Prof. Gülaçtı TOPÇU, Ph.D.

Bezmialem Vakıf University Faculty of Pharmacy, Department of Pharmacognosy, İstanbul, Türkiye

Prof. Hasan KIRMIZİBEKMEZ, Ph.D.

Yeditepe University Faculty of Pharmacy, Department of Pharmacognosy, İstanbul, Türkiye

Douglas Siqueira DE ALMEIDA CHAVES, Ph.D.

Federal Rural University of Rio de Janeiro, Department of Pharmaceutical Sciences, Rio de Janeiro, Brazil

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



Turkish Journal of PHARMACEUTICAL SCIENCES

Please refer to the journal's webpage (<https://www.turkjps.org/>) for "Editorial Policy" and "Instructions to Authors".

The editorial and publication process of the **Turkish Journal of Pharmaceutical Sciences** are shaped in accordance with the guidelines of ICMJE, WAME, CSE, COPE, EASE, and NISO. The Turkish Journal of Pharmaceutical Sciences is indexed in **PubMed, PubMed Central, Thomson Reuters / Emerging Sources Citation Index, Scopus, ULAKBİM, Türkiye Citation Index, Embase, EBSCO Host, Türk Medline, Cabi, CNKI**.

The journal is published online.

Owner: Turkish Pharmacists' Association, Academy of Pharmacy

Responsible Manager: Kutay DEMİRKAN



Publisher Contact

Address: Molla Gürani Mah. Kaçamak Sk. No: 21/1

34093 İstanbul, Türkiye

Phone: +90 (530) 177 30 97

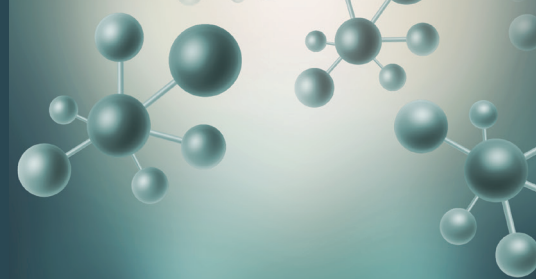
E-mail: info@galenos.com.tr / yayin@galenos.com.tr

Web: www.galenos.com.tr | **Publisher Certificate Number:** 14521

Publication Date: September 2026

E-ISSN: 2148-6247

International scientific journal published bimonthly.



Turkish Journal of PHARMACEUTICAL SCIENCES

CONTENTS

Original Articles

- 56 ***Antimutagenic and Antigenotoxic Effects of *Ruscus aculeatus* L. Rhizomes and Roots***
Gülşah ESEN, Dilan TALU, Hananeh KORDBACHEH, Etil GÜZELMERİÇ, Muhammed HAMİTOĞLU, Hasan KIRMIZIBEKMEZ
- 65 ***Plasma Concentrations of Amyloid- β Peptides, BACE-1, and Tau Proteins in Alzheimer's Disease***
Nejla YILDIRIM, Naile Merve GÜVEN AKSU, Başak Özlem PERK, Benay CAN EKE
- 75 ***Establishment and Validation of a Stability-Indicating RP-HPLC Protocol for Mavacamten in Oral Capsule Preparations***
Pratibha Atul DAROI, Pranjali PATIL, Vijay MUNIPALLI, Bhushan SONAWANE
- 85 ***Development of Mucoadhesive Nanofiber as an Alternate Therapeutic Regimen for Subclinical Endometritis in Cattle***
Priyanka KUMARI, Shivalal YADAV, Ashutosh TRIPATHI, Manish Kumar SHUKLA, Surabhi PARANGI, Janmejay PANDEY, Rakesh Kumar SAHOO, Goutam RATH, Debasmita DUBEY, Amit Kumar GOYAL
- 105 ***Exploring the Role of Metabolites in Torsadogenic Risk Assessment: A Text-Mining Approach***
Egemen BİLGİN, Gülçin TUĞCU, Ahmet AYDIN
- 113 ***Integrated Botanical and Phytochemical Characterization of *Santolina chamaecyparissus* L. and Evaluation of its Antimicrobial Activity***
Şüheda Rumeysa OSMANLIOĞLU DAĞ, Abdulrahman DAHER, Hasan SAĞLAM, Turan ARABACI