

e-ISSN: 2148-6905

a peer-reviewed
online journal

hosted by DergiPark

International Journal of Secondary Metabolite

Volume: 10

Issue: 4

December 2023

<https://dergipark.org.tr/en/pub/ijsm>

Volume 10**Issue 4****2023**

Editor	Prof. Dr. Selami SELVİ
Address	Balıkesir University, Altinoluk Vocational School, Edremit/Balıkesir, Türkiye
Phone	+90 266 396 1552
E-mail	sselvi@balikesir.edu.tr
Publisher	Prof. Dr. Izzet KARA
Address	Pamukkale University, Education Faculty, Kinikli Campus, 20070 Denizli, Türkiye
Phone	+90 258 296 1036
Fax	+90 258 296 1200
E-mail	ikara@pau.edu.tr ijsm.editor@gmail.com
Journal Contact	Prof. Dr. Gurkan SEMİZ
Address	Pamukkale University, Faculty of Science, Department of Biology, Kinikli Campus, Denizli, 20070, Türkiye
Phone	+90 258 296 3582
Fax	+90 258 296 1200
E-mail	gsemiz@pau.edu.tr
Frequency	4 issues per year (March, June, September, December)
Online ISSN	2148-6905
Website	https://dergipark.org.tr/en/pub/ijsm
Cover Design	Merve SENTURK

International Journal of Secondary Metabolite (IJSM) is a peer-reviewed and academic online journal. The scientific and legal responsibility for manuscripts published in our journal belongs to the authors(s).

International Journal of Secondary Metabolite

International Journal of Secondary Metabolite (IJSM) purposes the publication of articles related to secondary metabolites of plant and allied organisms (algae, fungi, and lichens). IJSM is open-access, peer-reviewed academic journal published electronically and quarterly. The journal is the goal to improve the research culture and help knowledge spread rapidly in the academic world by providing a common academic platform in the scope. The journal is published in English.

IJSM is published 4 issues per year (March, June, September, December), and accepting manuscripts related to secondary metabolites of plant and allied organisms (algae, fungi, and lichens). Research areas covered in the journal are phytochemistry, biochemistry, biotechnology, ethnopharmacology, biological and pharmacological activities (antimicrobial activity, antioxidant activity, antiulcer activity, anti-convulsant activity, anti-anxiety activity, antidiabetic activity, anti-gout activity, antiprotozoal activity, anti-inflammatory activity, antispasmodic activity, antiparasitic activity, anti-mutagenic activity, anticholinesterase activity, antidepressant activity, hepatoprotective activity, anti-anxiety activity, anti-convulsant activity, anti-spasmodic activity, anticancer activity). IJSM welcomes the submission of manuscripts that meet the general criteria of significance and scientific excellence. Authors are required to frame their research questions and discuss their results in terms of major questions in plant biology. Contribution is open to researchers of all nationalities. The following types of articles will be considered:

1. Research articles: Original research in various fields of plant and allied organisms (algae, fungi, and lichens) will be evaluated as research articles.
2. Research notes: These include articles such as preliminary notes on a study or manuscripts new records on secondary metabolites.
3. Reviews: Reviews of recent developments, improvements, discoveries, and ideas in various fields of plant and allied organisms (algae, fungi, and lichens) will be requested by the editor or advisory board.
4. Letters to the editor: These include opinions, comments relating to the publishing policy of the International Journal of Secondary Metabolite, news, and suggestions. Letters are not to exceed one journal page.

All articles accepted to the IJSM are published without charge for article submission, review or printing.

Indexes and Databases:

- SCOPUS
- TR Dizin
- EBSCOHOST databases
- MIAR (Information Matrix for Analysis of the Journals)
- SIS (Scientific Index Service) Database,
- ERIH PLUS
- CAB Abstracts
- DOAJ
- JournalTOCs
- idealonline
- ResearchBib
- CrossRef
- ASOS Index
- Index Copernicus

Editors

Dr. Selami Selvi, *Balikesir University, Türkiye*

Editorial Board

Dr. Akym Assani, *Canadian Food Inspection Agency, Canada*

Dr. Alaattin Sen, *Abdullah Gül University, Türkiye*

Dr. Bui Thanh Tung, *Vietnam National University, Vietnam*

Dr. Ebru Ataslar, *Eskisehir Osmangazi University, Türkiye*

Dr. Eyup Bagci, *Firat University, Türkiye*

Dr. Faik Kantar, *Akdeniz University, Türkiye*

Dr. Fawzi Mahomoodally, *University of Mauritius, Réduit, Mauritius*

Dr. Fethi Ahmet Ozdemir, *Bingol University, Türkiye*

Dr. Gokhan Zengin, *Selcuk Üniversitesi, Türkiye*

Dr. Gurkan Semiz, *Pamukkale University, Türkiye*

Dr. Hakan Akca, *Pamukkale University, Türkiye*

Dr. Haniyeh Bidadi, *University of Tsukuba, Japan*

Dr. Huseyin Servi, *Altinbas University, Türkiye*

Dr. Ibrahim Kivrak, *Mugla Sitki Kocman University, Türkiye*

Dr. Lucian Hriteu, *Alexandru Ioan Cuza University of Iasi, Romania*

Dr. Meriem Elaloui, *National Institute of Research in Rural Engineering, Tunisia*

Dr. Muhammad Akram, *Government College University Faisalabad, Pakistan*

Dr. Mohammad Asadi, *University of Mohaghegh Ardabili, Iran*

Dr. Namik M. Rashydov, *National Academy of Sciences of Ukraine, Ukraine*

Dr. Nazim A. Mamedov, *University of Massachusetts Amherst, USA*

Dr. Oktay Erdogan, *Pamukkale University, Türkiye*

Dr. Ozan Emre Eyupoğlu, *Istanbul Medipol University, Türkiye*

Dr. Sharad Vats, *Banasthali University, India*

Dr. Seyda Kivrak, *Mugla Sitki Kocman University, Türkiye*

Dr. Sibel Silici, *Erciyes University, Turkey*

Dr. Vahid Tavallali, *Payame Noor University, Iran*

Dr. Yesim Kara, *Pamukkale University, Türkiye*

Foreign Language Editor

Dr. R. Sahin Arslan, *Pamukkale University, Türkiye*

Dr. Hatice Altun, *Pamukkale University, Türkiye*

Latin Language Editor

Dr. Hasan Genc, *Burdur Mehmet Akif Ersoy University, Türkiye*

Table of Contents

Research Articles

[Antioxidant and diuretic effects of flower extract of *Laurus nobilis*](#)

Page: 459-468 PDF

Nor El Houda TAHİRİ, Asmae LAGHOUİZİ, Abderrazak ABOULGHAZİ, Najoua SOULO, Badaia LYOUSSİ, Lalla Aicha LRHORFİ

[Characterization and antibacterial activity of alkaloids and polyphenols extracts from *Haplophyllum tuberculatum* \(Forssk.\) A. Juss.](#)

Page: 495-510 PDF

Djamila DJOUAHRA FAHEM, Souhila BENSMAIL, Razika BOUTELDJA, Messad SARA, Fatiha FERHOUM, Nassima BOURFIS, Fatma ACHEUK, Fethia FAZOUANE

[Chemical composition, antioxidant, and antimicrobial activities of Bangladesh-origin Jhum-cultivar basil \(*Ocimum basilicum* L.\) essential oil](#)

Page: 511-524 PDF

Suman BARUA, Kajalika DEWAN, Saiful ISLAM, Suman MOJUMDER, Ovi SIKDER, Rajib SARKAR, Hiroshi HASEGAWA, Ismail M.m. RAHMAN

[Inula viscosa L. \(Asteraceae\): A study on its antimicrobial and antioxidant activities, chromatographic fingerprinting profile](#)

Page: 525-534 PDF

Gülten ÖKMEN, Kutbettin ARSLAN, Rıdvan TEKİN

[Aroma profile of the essential oils from different parts of *Pycnocycla aucherana* Decne. ex Boiss.](#)

Page: 535-544 PDF

Fatemeh ASKARİ, Fatemeh SEFİDKON, Zohreh EMAMİ BİSTGANİ, Mohamad Amin SOLTANİPOUR

[Investigation of the effect of using palm kernel powder in bread flour on quality parameters of flour](#)

Page: 545-554 PDF

Yavuz YÜKSEL, Mustafa Kürşat DEMİR

[Determination of secondary metabolite in galls of some cynipid wasps \(Hymenoptera: Cynipidae\) and characterization of the phenolic compound](#)

Page: 555-569 PDF

Musa TATAROĞLU, Özge KILINÇARSLAN AKSOY, Yusuf KATILMIŞ, Ramazan MAMMADOV

Comparative chromatographic analysis of phenolic compounds of *Liquidambar orientalis* plant cultivated under *in vitro* salt stress

Page: 570-582 PDF

Muhammed Mustafa POLAT, Ergun KAYA, İbrahim KIVRAK

Total polyphenols and antioxidant activity of yellow velvetleaf (*Limnocharis flava*) extract

Page: 583-589 PDF

Sabri SUDİRMAN, Mey ARIANTİ, Gama Dian NUGROHO, Sherly RIDHOWATİ, Puspa Ayu PITAYATİ, Miftahul JANNA

Investigation of electronic and optical properties of nano-Ag produced from heterocyclic compounds by green chemistry reactions

Page: 605-625 PDF

Aslı ÖZTÜRK KİRAZ, Mine SULAK, Yeşim KARA, İzzet KARA

Antimicrobial potential of lemon and onion extracts against gram-positive and -negative bacteria

Page: 626-637 PDF

Nagomi GOPINATH

Review Articles

Different methods of extraction of bioactive compounds and their effect on biological activity: A review

Page: 469-494 PDF

Imane GHENABZİA, Hadia HEMMAMİ, Ilham BEN AMOR, Soumeia ZEGHOUD, Bachir BEN SEGHİR, Rokaia HAMMOUDİ

Bacteria-to-bacteria communication, Signaling Molecules: AHLs, AIPs and AI-2, I can't talk now matey, gone to pathogenesis!

Page: 590-604 PDF

Nurdan FİLİK, Fethi FİLİK
