2024

E-ISSN 2146-0108 | VOLUME 18 | ISSUE 1

JOURNAL OF APPLIED BIOLOGICAL SCIENCES

JOURNAL OF APPLIEDBIOLOGICAL SCIENCES

www.jabsonline.org

PUBLISHED BY
Anatolia Academy
of Sciences

Journal of Applied Biological Sciences

E-ISSN: 2146-0108

Owner and Publisher
Anatolia Academy of Sciences

Editor in Chief
Prof. Mehmet Karataş
Necmettin Erbakan University, Turkiye
e-mail: mkaratas@erbakan.edu.tr

Editor
Prof. Dr. Hüsamettin Ekici, Kırıkkale University, Turkiye

Associate Editors
Assist. Prof. Dr. Sevinç Akçay, Kırşehir Ahi Evran University, Turkiye
Assoc. Prof. Dr. Fazia Adyani Ahmad Fuad, International Islamic University, Malaysia
Assoc. Prof. Dr. Nusrat Sultana, Jagannath University, Bangladesh

Managing Editor
Assoc. Prof. Dicle Dönmez, Çukurova University, Turkiye

Section Editors
Assoc. Prof. Dr. Mustafa Yipel, Hatay Mustafa Kemal University, Turkiye
Assoc. Prof. Dr. Seyda Cengiz, Mugla Sıtkı Kocman University, Turkiye
Assist. Prof. Dr. Özlem Aytürk, Maltepe University, Istanbul, Turkiye

Reviews Editor
Assoc. Prof. Dr. Nilay Seyidoglu, Namik Kemal University, Turkiye

English Language Editor
Prof. Dr. Ömer Sekerci, Suleyman Demirel University, Turkiye

Statistical Editor
Assoc. Prof. Dr. Ozgür Albuz, Ministry of Health, Turkiye

Editorial Advisory Board
Prof. Dr. Abdullah Aslan, Firat University, Turkiye
Prof. Dr. Bashkim Ziberi, University of Tetova, Macedonia
Prof. Dr. Didem Turgut Cosan, Eskisehir Osmangazi University, Turkiye
Prof. Dr. Farhat Jabeen, Govt. College University, Pakistan
Prof. Dr. Filiz Vardar, Marmara University, Turkiye
Prof. Dr. Hamzah Mohd Salleh, International Islamic University, Malaysia
Prof.Dr. Kerem Ural, Aydin Adnan Menderes University, Turkiye
Prof. Dr. Khalid Mahmood Khawar, Ankara University, Turkiye
Prof. Dr. Narcisa Mederle, Banat Uni. of Agr. Sci. and Veterinary Med. of Timisoara, Romania
Prof. Dr. Noureddine Djebli, Mostaganem University , Algeria
Prof. Dr. Umer Farooq, The Islamia University of Bahawalpur, Pakistan
Prof. Dr. Serra Hepaksoy, Ege University, Turkiye
Prof. Dr. Seyyed Aliakbar Hedayati, Gorgan University, Iran
Assoc. Prof. Dr. Buğrahan Emsen, Karamanoğlu Mehmetbey University, Turkiye
Assoc. Prof. Dr. Dilek Dülger , Karabük University, Turkiye
Assoc. Prof. Dilek Pirim, Bursa Uludag University, Turkiye
Assoc. Prof. Dr. Emine Güven, Morehouse School of Medicine,USA
Assoc. Prof. Dr. Erhan Sulejmani, University of Tetova, Macedonia

Assoc. Prof. Dr. Furkan Ayaz, Biruni University, Turkiye
Assoc. Prof. Dr. Muhammad Azhar Nadeem, Sivas University of Science and Technology, Turkiye
Assoc. Prof. Dr. Mudassar Mohiuddin, Islamia University of Bahawalpur, Pakistan
Assoc. Prof. Dr. Otilia Bobis, University of Agricultural Sciences and Veterinary Medicine, Romania
Assoc. Prof. Dr. Ozhan Simsek, Erciyes University, Turkiye
Assoc. Prof. Dr. Reza Amirnia, Urmia University, Iran
Assoc. Prof. Dr. Sabire Guler, Bursa Uludag University, Turkiye
Assoc. Prof. Dr. Soheil Eagder, University of Tehran, Iran
Assoc. Prof. Dr. Yavuz Cakir, Emry-Riddle Aeronautical University, USA
Assis. Prof. Dr. Iliana Lazova-Borisova, Agricultural Academy, Bulgaria
Assis. Prof. Dr. Ilir Mazreku, University of Prishtina, Republic of Kosova
Dr. Abdul Shakoor Chaudhry, Newcastle University, UK

Journal of Applied Biological Sciences (JABS) is an international non-profit, full open access, double-blind peer-reviewed journal and publishes three issues per year.

JABS welcomes article submissions and does not charge any article submission or processing charges.

Authors are completely responsible for the contents of their articles.

Address
Anatolia Academy of Sciences
Selahaddini Eyyubi District, Tekke Street, No: 21, Selcuklu, Konya/TURKIYE

e-mail: jabsjournals@gmail.com

Copyright © 2024 by Anatolia Academy of Sciences

All rights reserved.

No part of this publication cannot be reproduced, distributed, or transmitted in any form including photocopying, recording, other electronic or mechanical methods, without the prior written permission of the publisher.

http://www.jabsonline.org

Copyright © 2024 by Anatolia Academy of Sciences

Contents

Publication Date: 31.01.2024

1. BIOETHANOL PRODUCTION FROM HYDROLYSATE DERIVED BY ULTRASONIC PRETREATED DEFATTED BIOMASS OF MUNICIPAL WASTEWATER GROWN MUTANT *TETRADESMUS DIMORPHUS* EMS2

Radhakrishnan Naramatha, Krishnan Dhandayuthapani, Ramanathan Ranjith Kumar, Kanagasabai SHANTHI 1

2. ANTIBACTERIAL ACTIVITY OF *LEUCONOSTOC MESENTEROIDES* ISOLATED FROM RAW GOAT MILK

Nabila Hansal, Zineb Benmchernene, Kihal Mebroukwal..... 14

3. CONTROL OF *SALMONELLA* ENTERITIDIS AND *SALMONELLA* KENTUCKY ON EGGSHELL WITH BACTERIOPHAGE APPLICATION

Başak Kızal, Naim Deniz Ayaz, Gizem Çufaoğlu, Muammer Goncuoğlu 33

4. EFFECTS OF DIFFERENT LEVELS OF ORGANIC AMENDMENT AND MINERAL FERTILIZATION ON ONION (*ALLIUM CEPA L.*) AGRO MORPHOLOGICAL PERFORMANCES AND QUALITY IN SENEGAL RIVER VALLEY CONDITIONS

Moussa Mbaye, Awa Ba, Mamoudou Abdoul Touré, Elhadji Faye, Moussa Diop..... 42

5. ESTIMATION OF IMPACT OF *CHLORELLA VULGARIS* ON CHEMICAL OXYGEN DEMAND (COD) AND TOTAL PHOSPHATE (TP) IN WASTE AND RIVER WATER

Aillah Baluch, Rahat Batool, Arshia Amin Butt 55

6. INVESTIGATION OF ESβL, AMP-C, CARBAPENEMASE PRODUCING *ESCHERICHIA COLI* STRAINS ANTIMICROBIAL RESISTANCE PROPERTIES ISOLATED FROM RED MEAT IN RETAIL BY MIC, PCR, AND LAMP PCR ANALYSIS

Ceren Halıcı Demir, Sibel Kızıl 64

7. MELATONIN PROTECTS AGAINST OXIDATIVE DAMAGE IN SPLEEN AND DETERIORATION OF IMMUNE FUNCTION IN FORCED SWIM-STRESSED LABORATORY MICE

Shiv Shankar Singh, Subhrata Sarma, Anubhuti Kashyap, Arjita Chakrabarti..... 78

8. COMPARATIVE STUDY OF PHYSIOCHEMICAL AND ANTIMICROBIAL PROPERTIES OF ADULT COCKROACHES-EXTRACTED CHITOSAN

Majid Kababian, Ebrahim Cheraghi, Eslam Moradi-Asl, Abedin Saghafipour, Zahra Nabizadeh... 94

9. COMPARISION OF THE EFFICIENCY OF EPIDERMAL GROWTH FACTOR, SILVER AND NAFTALAN IN THE WOUND HEALING OF RATS

Birkan Karslı, Merve Bakıcı 106

10. GREEN SYNTHESIS OF SILVER NANOPARTICLES USING *ANDROGRAPHIS PANICULATA* LEAVES EXTRACT AND THEIR ANTIPROLIFERATIVE ACTIVITY IN HUMAN LUNG ADENOCARCINOMA CELLS

Simran Gajbhiye, Kiran Pal, Utpal Dongre 118