JOURNAL OF APPLIED BIOLOGICAL SCIENCES

E-ISSN: 2146-0108 VOLUME: 15 ISSUE: 3

2021

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, Turkey
e-mail: mkaratas@erbakan.edu.tr

Editor
Assoc. Prof. Dr. Hüsamettin Ekici, Kırıkkale University, Turkey

Assistant Editors
Dr. Sevinç Akçay, Kırşehir Ahi Evran University, Turkey
Dr. Sumera Sajjad, Lahore College For Women University, Lahore, Pakistan

Section Editors
Assoc. Prof. Dr. Aurelian-Sorin Paşca, Agricultural Sciences and Veterinary Medicine University, Romania
Assoc. Prof. Dr. Mehmet Eray Alçıgır, Kırıkkale University University, Turkey
Assoc. Prof. Dr. Mustafa Yipel, Hatay Mustafa Kemal University, Turkey
Assoc. Prof. Dr. Ozgür Albuz, Ministry of Health, Turkey
Assoc. Prof. Dr. Ulas Acaroz, Afyon Kocatepe University, Turkey
Assist. Prof.Dr. Alexander Pavlov Atanasov, Trakia University, Bulgaria

Editorial Advisory Board
Prof. Dr. Attila Karsi , Mississippi State University, USA
Prof. Dr. Bashkim Ziberi, University of Tetova, Macedonia
Prof. Dr. Elsadig A. Eltayeb, Sultan Qaboos University, Sultanate of Oman
Prof. Dr. Erhan Mutlu, Akdeniz University, Turkey
Prof. Dr. Farhat Jabeen, Govt. College University, Pakıstan
Prof. Dr. Hamzah Mohd Salleh, International Islamic University Malaysia
Prof. Dr. Hasan Huseyin Atar, Ankara University, Turkey
Prof. Dr. İsmühan Potoglu Erkara, Eskişehir Osmangazi University, Turkey
Prof. Dr. Khalid Mahmood Khawar, Ankara University, Turkey
Prof. Dr. Noureddine Djebli, Mostaganem University , Algeria
Prof. Dr. Seyyed Aliakbar Hedayati, Gorgan University, Iran
Prof. Dr. Yusuf Ozturk , Anadolu University, Turkey
Prof. Dr. Zahid Iqbal , Swat Medical College, Saudi Sharif, Swat, Pakistan
Assoc. Prof. Dr. Otilia Bobis, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania
Assoc. Prof. Dr. Özhan Simsek, Erciyes University, Turkey
Assoc. Prof. Dr. Umer Farooq, The Islamia University, Bahawalpur, Pakistan
Assoc. Prof. Dr. Reza Amirnia, Urmia University, Iran
Assoc. Prof. Dr. Soheil Eagderi, University of Tehran, Karaj, Iran
Assoc. Prof. Dr. Violin St.Raykov, Institute of Oceanology, Bulgaria
Dr. Abdul Shakoor Chaudhry, Newcastle University, UK
Dr. Orhan Sahin, Iowa State University, USA
Dr. Yavuz Cakir, Emre-Riddle Aeronautical University, USA

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
Selçuk University Technology Development Zone, Academy Street, No: 67, Konya/TURKEY
e-mail: jabsjournals@gmail.com

Copyright © 2021 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



Content

ASSESSMENT OF BIO-PROCESS VARIABLES FOR THE ENHANCED PRODUCTION OF CAROTENOID PIGMENT BY SOIL ISOLATE RHODOCOCCUS KROPPENSTEDTII

Varsha M. Chaudhari …… 235

HISTO-REPARATION OF HEPATIC PARENCHYMA OF EXPERIMENTAL WISTAR RATS EXPOSED TO CCL_4-INDUCED HEPATOPATHY AND TREATED WITH VITAMİN B_2 AND GREEN TEA EXTRACT

Dayo Rotimi Omotoso, Sarah Amie Amakhabi…….…… 247

CROCUS SATIVUS: FROM LIGHT TO SHADE: EFFECTS ON PHOTOSYNTHESIS AND PHOTOSYNTHETIC APPARATUS

Ibtissam Mzabri, Khadija Charif, Maria Rimani, Nourddine Kouddane, Abdelbasset Berrichi...… 257

IDENTIFICATION OF BIOLOGICAL PATHWAYS AND POTENTIAL BIOMARKERS IN PANCREATIC ADENOCARCINOMA USING BIOINFORMATICS ANALYSES

Emine Güven……..... 268

PREPARATION OF WETTABLE POWDER FORMULATION OF *BACILLUS THURINGIENSIS* KD2

Rasoul Marzban, Jaber Babaei, Maryam kalantari, Fatemeh Saberi……... 285

EFFECT OF *IN-VITRO* AND *IN-VIVO* MODELS OF DIABETES ON AKT PATHWAY IN PERIPHERAL BLOOD LYMPHOCYTES

Melinda Nongbet Sohlang, Suktilang Majaw …… 294

NEW CHROMOSOME COUNTS IN LAMIACEAE FROM FLORA OF IRAN - I

Firouzeh Bordbar, Zahra Esmailbeigi Mahani, Mansour Mirtadzadini……..... 310

CHEMICAL COMPOSITION OF ESSENTIAL OILS AND FLORAL WATERS OF *EUCALYPTUS CAMALDULENSIS* (Dehnh) FROM TWO LOCATIONS IN SENEGAL

El Hadji Barka Ndiaye, Momar Talla Gueye, Serigne Mbacké Diop, Abdoulaye Thiam, Cheikhna Hamala Sanghare, Michel Bakar Diop, Marie-Laure Fauconnier…….. 318

DISTRIBUTION OF JAK2V617F MUTATION IN CHRONIC MYELOPROLIFERATIVE DISEASES

Akın Yigin, Hatice Korkmaz Guvenmez, Bulent Antmen…….…… 330

INTEGRATED NETWORK ANALYSIS OF THE POTENTIAL MOLECULAR BIOMARKERS AND KEY PATHWAYS IN CLEAR RENAL CELL CARCINOMA (ccRCC)

Sevinç Akçay…….…… 342