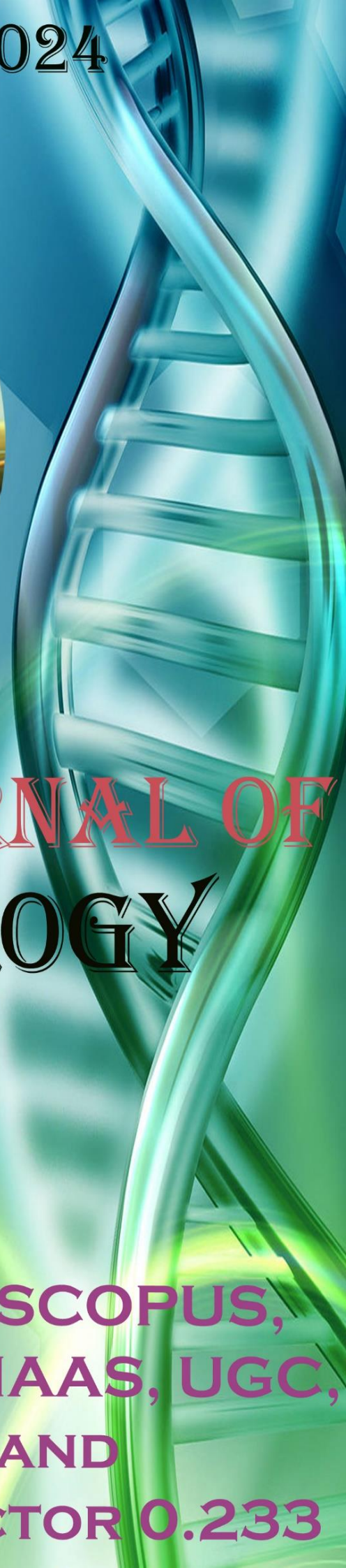
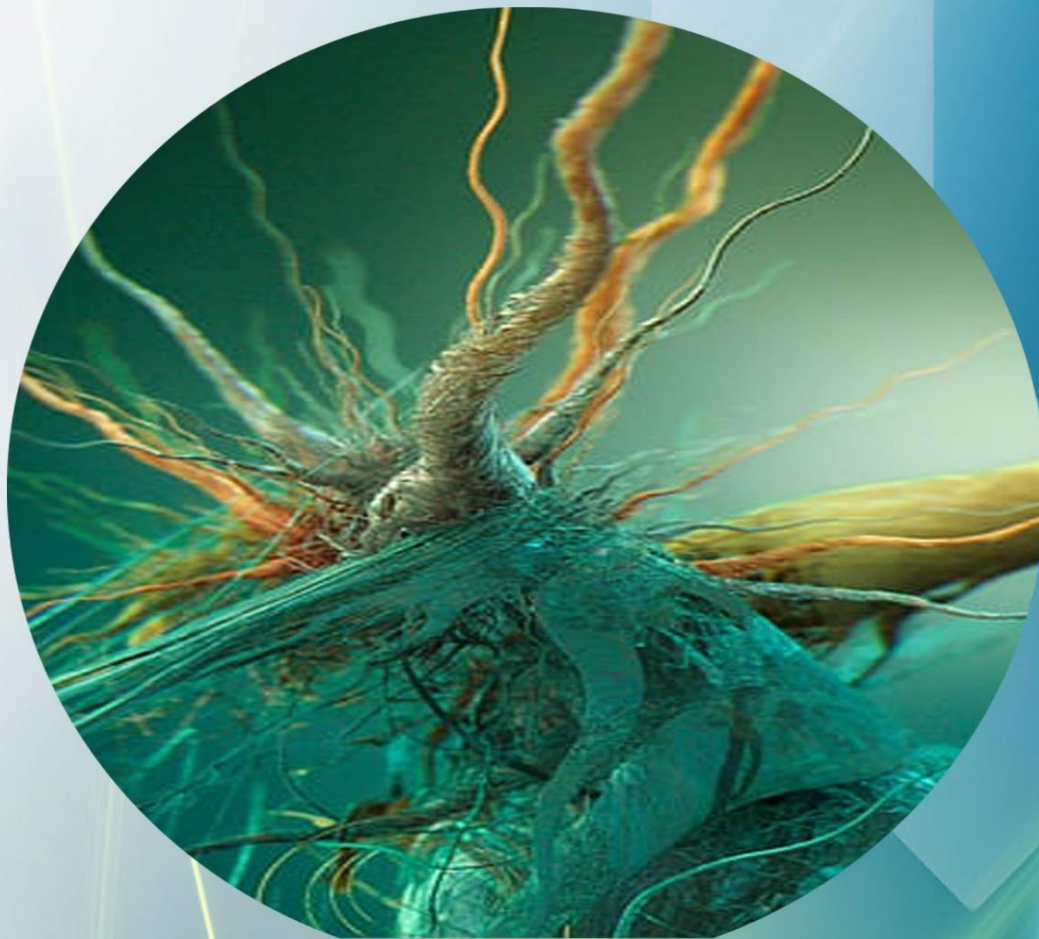


**VOL. 19(10), OCTOBER 2024**



**RESEARCH JOURNAL OF  
BIOTECHNOLOGY**

**JOURNAL IS INDEXED IN SCOPUS,  
CHEMICAL ABSTRACTS, NAAS, UGC,  
WEB OF SCIENCE AND  
ESCI HAVING IMPACT FACTOR 0.233**

# RESEARCH JOURNAL OF BIOTECHNOLOGY

An International Peer Reviewed Research Journal of Biotechnology, Nanotechnology, Biological Sciences  
*Res. J. Biotech.*, Volume 19(10), Pages 1-226, October 2024, SCI Impact Factor 0.233

Editor-in-Chief (Hon.)  
**Dr. Wan Keung Wong**  
 Kowloon, HONG KONG

Correspondence Address:  
**"Research Journal of Biotechnology"**  
 Sector AG/80, Scheme No. 54, Indore 452 010 (M.P.) INDIA  
 Mobile: +91-94250-56228

Web Site: <https://www.worldresearchersassociations.com>

E-mail: [info@worldresearchersassociations.com](mailto:info@worldresearchersassociations.com)

## CONTENTS

<b>Research Papers:</b>		
1.	<b>Optimization of Conditions for the Secretion of Recombinant KG51 Xylanase by <i>Bacillus subtilis</i></b> - Lee Jin-Sung and Kim Keun-Sung	1-12
2.	<b>Characteristics of the luminous <i>Photobacterium leiognathi</i> from the Andaman and Nicobar Islands seawater as a source of eco-friendly biopolymers and a tool for toxicity analysis</b> - M. Jyothi and Vuppu Suneetha	13-30
3.	<b>Genome-wide characterization of the DNA-binding B3 superfamily <i>Lagenaria siceraria</i> and profiling its expression in biotic stresses</b> - Singh Vasundhra, Gupta Divya, Singh Nootan, Tiwari Neeraj and Sharma Sapna	31-45
4.	<b>Association of Lipid Profiles and Oxidative Stress Markers with Myocardial Infarction in Individuals with and without Diabetes: A Comparative Analysis</b> - Amani Naama Mohammed, Zainab A. Almaseer, Hammid Jaddoa Abbas, Maiada Abdullah Adnan and Zainab Muzahim Mohammed	46-51
5.	<b>Separation of major bioactive components by GC-MS and antioxidant studies on <i>Solanum nigrum</i> extract</b> - Ramananthatheerthan Abarna, Narayanasamy Krishnaveni, Nagarajan Alagumanikumar, Madasamy Subbulakshmi and Marikani Kannan	52-58
6.	<b>Nosocomial Mucormycetes Isolates of Local Environment and a Ligand based Antibioqram Predictive Model</b> - Mishra Dhananjaya and Pattnaik Smaranika	59-74
7.	<b>Influence of Monochromatic light on growth, secondary metabolites and antioxidant activity in <i>in vitro</i> culture of <i>Eryngium foetidum</i> L.</b> - Jena Biswajit, Biswal Bhagyashree, Giri Alok Kumar and Acharya Laxmikanta	75-84
8.	<b>Assessment of the antioxidant and inhibitory property of leaf extract of <i>Ricinus communis</i> Linn. on proliferation against different human cancer cells</b> - Karmakar Sayanti, Chouni Anirban, Pal Amrita and Paul Santanu	85-93
9.	<b>Metagenome Analysis of the Bacterial Communities of mangrove sediments from Neil Island of Andamans</b> - Subramaniam Poongodi, Sivasankar Palaniappan and Kannan Sivakumar	94-101
10.	<b>Hepatoprotective activity of <i>Vitis vinifera</i> L. fruit (<i>V. vinifera</i>) against acetaminophen induced oxidative damage</b> - Sharma Chandra Kant, Singh Ritu Kumari and Sharma Monika	102-108
11.	<b>Screening of UV mutants of <i>Listeria monocytogenes</i> NCIM 5260 and growth optimization for production of listeriolysin O</b> - Ramesh Mundlamuri and Jalaja Naravula	109-117

12.	<b>Nature-inspired computing based Non-Hodgkin lymphoma prediction from microarray expression with GA-RFE gene selection method; an experimental histopathological study</b> - Nagarajan Sivaranjini and Muthusamy Gomathi	118-127
13.	<b>Association of Endotrophin Levels with Metabolic Parameters in Polycystic Ovarian Syndrome (PCOS) Patients</b> - Singh Mamta, Ramadoss Priyadarshini, Kumar Praveen and Ashok S. Ben	128-134
14.	<b>Assessment of interleukin- 8, IL- 10 and some physiological variables in arthritis patients recovered from SARS covid 2 induced covid 19 infections</b> - Muhammad Fatma Mustafa, Pambuk Chateen I. Ali and Alrifaii Ali Abdulihsan T.	135-140
15.	<b>Speciation and Antifungal Susceptibility pattern of urinary Candida isolates from catheterized patients admitted in ICU in a Tertiary Care Hospital, Theni</b> - Shanthi Bhushana B., Sree Bavai Malar B., Senthilkumar V., Sucila Thangam G. and Swarna S.	141-146
16.	<b>Structural and functional impact of Spike protein mutations in the KP.2 variant</b> - Thai Ke Quan, Huynh Phuoc and Nguyen Thi Thuong Huyen	147-154
17.	<b><i>In silico</i> analysis of volatile and non-volatile compounds of <i>Cissus quadrangularis</i> on EGFR receptor</b> - Aarthi Rashmi D., Shreenidhi K.S., Harishchander A., Shanthi Priya, Gnanaselvan Suvathika and Sangilimuthu Alagar Yadav	155-167
18.	<b>Biosorption of Cr ions from tannery effluent using microalgae proteins through metal docking with the prediction of significant protein metal interaction</b> - Venkatesan Praveena and Sathiaivelu Mythili	168-181
<b>Review Papers:</b>		
19.	<b>Recent Advancements in Programmed Nucleases for Genome Editing</b> - Tyagi Priyanka, Singh Anjali, Sharma Nidhi and Singh Nimisha	182-192
20.	<b>Production Strategies and Applications of L-asparaginase</b> - Suman Dheerendra Kumar, Kodavaty Jagadeeswar, Kakara Divya, Mallu Maheswara Reddy and Erva Rajeswara Reddy	193-215
21.	<b>Role of genetic markers development of diabetic kidney disease in the South Asian population</b> - Nayak Rohith	216-226

❖ EDITORIAL BOARD: P IV ❖