

VOL. 17 (6), JUNE 2022

# 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 17(6), Pages 1-219, June 2022, SCI Impact Factor 0.233

Editor- in- Chief (Hon.)  
**Dr. Shankar Lal Garg**  
 Indore, INDIA

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>Molecular Identification of Fungal Strains isolated from Textile Effluent and Contaminated Soil using 16s rRNA Sequencing</b> - Chaithra C. and Kousar Hina	1-6
2.	<b>Prevalence of Vitamin D deficiency in infertile women with Polycystic ovarian syndrome and its possible association with endocrine parameters</b> - Kulkarni Vinuta B., Shilpasree A.S., Patil Vidya S. and Desai Rathnamala M.	7-12
3.	<b>Evaluation of genetic diversity and population structure of <i>Angelica glauca</i> of Uttarakhand region using ISSR markers</b> - Rawat Tarangini and Gupta Sanjay	13-20
4.	<b>The Role of the Microbiome in Colorectal Cancer derived from RNA-seq Data</b> - Babaee Hamed	21-44
5.	<b>Efficacy of <i>Calotropis gigantea</i> L. flower extract and biosynthesized silver nanoparticles against fungal pathogens</b> - Yuvabharathikannan D., Mosa Christas K. and Ranjani Devi M.	45-51
6.	<b>Comparative studies on the release behaviours of gallic acid and eurycomanone as active ingredients in herbal supplement</b> - Zainol Noorazwani, Mohd Azman Nazurah, Mohd Asri Mohd Eeyad Arief, Ganesan Khetiswari and Abang Zaidel Dayang Norulfairuz	52-58
7.	<b>Assessment of therapeutic potential of Cell free supernatant of <i>Pediococcus acidilactici</i> NCDC 252: a novel potential probiotic of dairy origin</b> - Kumar Raman, Bansal Poonam, Singh Jasbir and Dhanda Suman	59-66
8.	<b>Protein-Protein docking interaction of Nephtrin protein with the expression of MMP-9: an anti-inflammatory agent</b> - Shree P., Srivastava S., Chaube R. and Tripathi Y.B.	67-72
9.	<b>Production of an antimicrobial protein in a batch fermentor by <i>Bacillus amyloliquefaciens</i> MBL27</b> - Vijayalakshmi Kumaravel	73-80
10.	<b>Microemulsion-based Transdermal Drug Delivery System incorporating Levofloxacin hemihydrate for skin Infections</b> - Shabir M., Kizilbash N., Alzahrani A.K., Suhail N. and Ambreen J.	81-88

11.	<b>Phytochemical screening, antidermatophytic potential and GC-MS analysis of traditional medicinal plants</b> - Sowthariya C., Shanthi P., Sathya R. and Jennifer S.	89-102
12.	<b>Screening and detection of temperate bacteriophages in the starter cultures</b> - Varalakshmi S.	103-108
13.	<b>Isolation, Identification and Characterization of Feather degrading Bacteria from Feather Dumping Sites</b> - Rai Pooja, Das Sonali, Kamble Suresh and Raytekar Namita	109-115
14.	<b>GC-MS analysis of endolichenic fungus isolated from <i>Hypotrachyna infirma</i> (Kurok.)Hale</b> - Gokilavani R. and Rehana Banu H.	116-121
15.	<b>Effect of Commercial Grade Malathion on Immunological Responses in Mice infected with <i>Staphylococcus aureus</i></b> - Pinto Janita, Bernhardt Grisilda Vidya and Kavitha Liegelin	122-128
16.	<b><i>In silico</i> identification of miRNAs potentially targeting the genes that regulate protein transport and translocation in cattle in heat stress response</b> - Chaurasiya Deepak, Kaul Gautam and Kumar Mahesh	129-138
17.	<b>Quantitative real-time PCR for the analysis of viral load among Hepatitis C Virus positive patients attending the medical Out Patient Department at a north Indian tertiary care centre</b> - Shivangi, Razdan Konika, Sudan Shashi, Mishra Manish and Sehgal Shelly	139-148
18.	<b>Characteristics habitat and molecular identity of <i>Calophyllum inophyllum</i> L. (Calophyllaceae) in Spratly Islands, Vietnam</b> - Pham Mai-Phuong, Le Xuan Dac, Nguyen Duy Liem and Vu Dinh Duy	149-157
19.	<b>Investigation on a Novel Mushroom, <i>Russula pseudocyanoxantha</i>: Chemical Composition and Antioxidant Potency</b> - Khatua Somanjana and Acharya Krishnendu	158-164
20.	<b>Statistical optimization of medium components and growth conditions to enhance Polyhydroxybutyrate yield by <i>Bacillus endophyticus</i> MTCC 13038</b> - Soni S., Chhokar V., Beniwal V., Jangra R.M. and Kumar A.	165-173
21.	<b>Biochemical and Molecular Analysis of <i>in vitro</i> conserved Microplants of <i>Solanum tuberosum</i> L.</b> - Nasiruddin M., Karim R., Kabir A.H., Hossain M.M. and Islam A.K.M.R.	174-182
22.	<b><i>In Vitro</i> evaluation of the Antimicrobial Activity of Thyme and Cinnamon Essential Oils against Respiratory Infection causing Bacteria and its Cytotoxicity Analysis</b> - Singh D. and Agarwal V.	183-188
23.	<b>Genetic diversity, redundancy and population structure in flax (<i>Linum usitatissimum</i> L.) as revealed by dominant molecular marker system</b> - Nag Sumita, Mandal Rupsanatan and Mitra Jiban	189-196
24.	<b>Prevalence and characterization of <i>Cronobacter</i> spp. in rice and rice-based products</b> - Muensritharam Laksamee, Meharg Caroline and Phromchaloem Chanya	197-203
<b>Review Paper:</b>		
25.	<b>Mathematical Models being Crucial in Development of Novel Strategies for Cancer Treatment</b> - Luthra Ritika, Datta Shreeja and Das Asmita	204-219

❖ EDITORIAL BOARD: P IV ❖