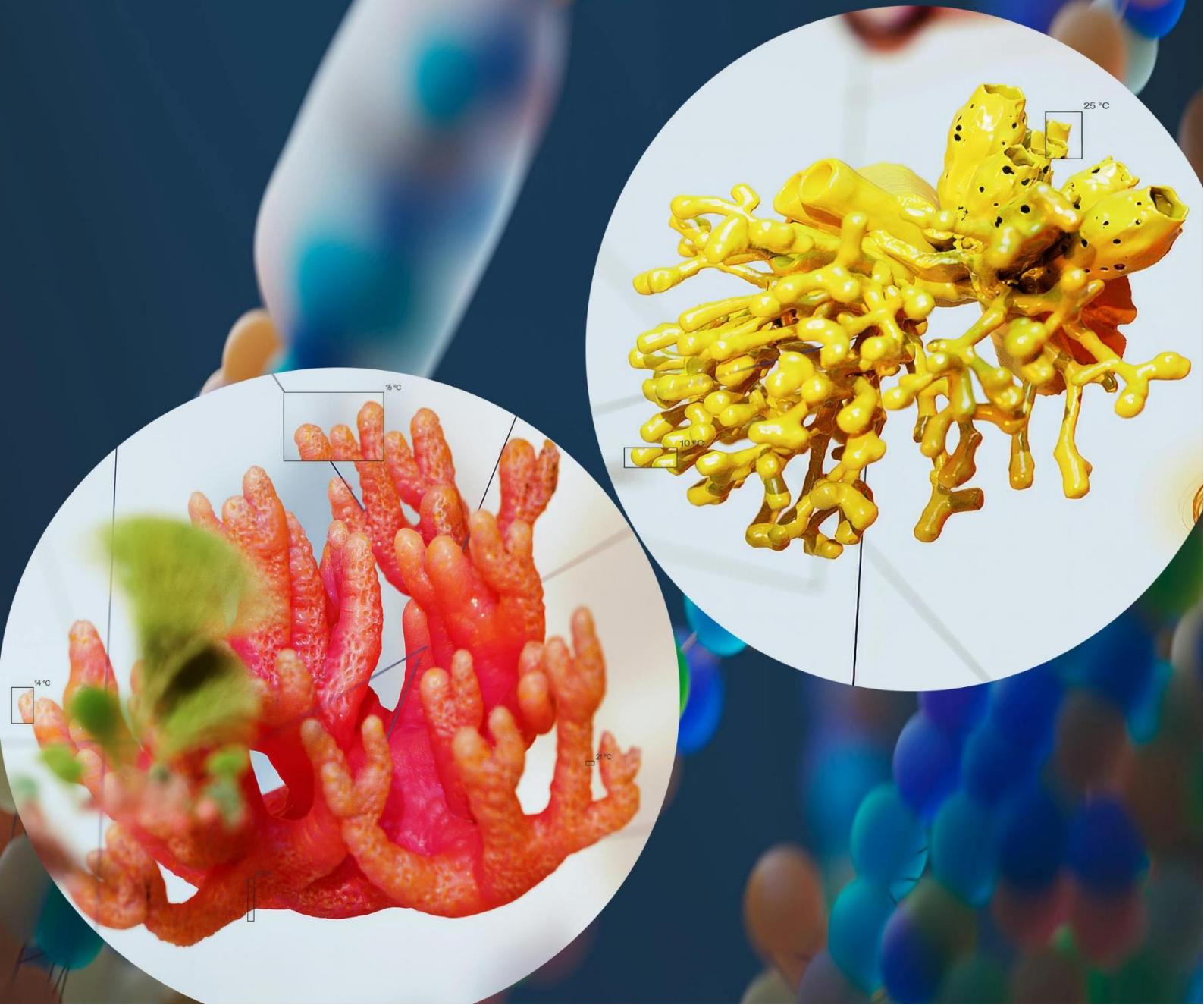


**JOURNAL IS INDEXED IN SCOPUS,  
CHEMICAL ABSTRACTS, NAAS, UGC,  
WEB OF SCIENCE AND  
ESCI HAVING IMPACT FACTOR 0.233  
VOL. 20(9), SEPTEMBER 2025**

# Research Journal of Biotechnology



# RESEARCH JOURNAL OF BIOTECHNOLOGY

An International Peer Reviewed Research Journal of Biotechnology, Nanotechnology, Biological Sciences  
Res. J. Biotech., Volume 20(9), Pages 1-324, September 2025, 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>Additive Effects of Mesenchymal Stem Cell-Conditioned Medium and Silymarin in Carbon Tetrachloride-Induced Liver Injury in Rats</b> - Srinivasamurthy Suresh Kumar, Bairy Laxminarayana Kurady, Samuel Vijay Paul, Rehman Abdul, Goud Manjunatha, Velamur Ravi Rangarajan and Gandi Avinash	1-6
2.	<b>GTIs evaluation: analytical tactic to quantitate the GTIs at the Threshold of Toxicological Concern level</b> - Baluni Subodh Kumar and Bastikar Virupaksha	7-16
3.	<b>Formulation of peptides rich fermented dairy beverage with multiple targets against diabetes using a proteolytic <i>Lacticaseibacillus rhamnosus</i> NCDC 24</b> - Kokkiligadda Anusha, Panicker S. Aiswarya, Manorama Kumari, Mandal Surajit and Tomar Sudhir Kumar	17-27
4.	<b>Development and shelf life evaluation of plant milk based yogurt enriched with <i>Lacticaseibacillus rhamnosus</i> and <i>Lacticaseibacillus paracasei</i></b> - Saxena Nidhi, Joshi Sagarkumar and Patel Shivani	28-33
5.	<b>The <i>Plasmodium falciparum</i> artemisinin-resistance marker <i>Pf</i>Kelch13 showing functional equivalence to the human Keap1 protein in regulating stress response and Nrf2 binding</b> - Parveen Nikhat	34-49
6.	<b>DDR1 promoting mesenchymal to epithelial transition in Diffuse B-Cell Lymphoma</b> - Sahni Deepak, Baranwal Saumya, Chaturvedi Kishan, Sharma Chandresh and Bharati Akhilendra Pratap	50-63
7.	<b>An investigation of the <i>Syzygium cumini</i> L. seed extract against ovarian cancer: <i>In vitro</i> studies</b> - Chandrasekaran Rajkuberan, Palani Selvakumari, Natarajan Kruthiga, Aasaithambi Kalaiselvi and Sangilimuthu Alagar Yadav	64-74
8.	<b>Comparison of anti-cancer efficiency of some homeopathic medicines on liver carcinoma cell line HepG2</b> - Chatterjee Debasmita, Paira Krishnendu and Das Satadal	75-81
9.	<b>Genetic and Molecular Insights into AIDS Progression: A Genome-Wide Association Data-Driven Analysis</b> - Sravana Deepthi C., Ravikanth Eddula Venkata, Adiga Usha, Vasishta Sampara and Sindhu B.S.	82-91
10.	<b>Characterization of novel pectinase isolated from <i>Bacillus halotolerant</i> sp. LC3 from avocado peel</b> - Aslam Farheen, Awan Sabahat, Abdul Manan Laiba and Iftikhar Saima	92-101
11.	<b>Development of Competent Multiple Meristem Cultures from Immature Male Bud of Banana, CO 2 (AB) and CO 3 (ABB)</b> - Shruthi S., Muthuvvel I., Manikanda Boopathi, Kavitha C. and Senthil A.	102-108
12.	<b>On-Site Detection of <i>Enterocytozoon hepatopenaei</i> in Shrimp: A Rapid and Reliable Colorimetric PSR Method</b> - Tran Hong Diem, Tran Thi Hau, Vo Thi Tu Binh, Le Thi Kim Dung and Phung Thi Thu Huong	109-117

13.	<b>Green Synthesis and Functionalization of Au Nanoparticles using <i>Syzygium samarangense</i> Leaf Extract and its Biological Applications</b> - Chaudhary Leela, Chaudhary Mansi, Patel Nidhi, Moga Himani and Makvana Chirag	118-126
14.	<b>Screening of antibacterial producing endophytic bacteria isolated from Medicinal plant <i>Coleus amboinicus</i></b> - Thenmozhi Panneerselvam, Chelladurai Iyyanar, Ayyanar Pandurangan, Sugumaran Pichamuthu and Gajalakshmi P.	127-133
15.	<b>Effect of colloidal silver against Ciprofloxacin persisters of <i>Pseudomonas aeruginosa</i> PAO1</b> - Braggs Carol and Desouza Anita	134-151
16.	<b>Integrative bioinformatics analysis revealing genetic and molecular mechanisms underlying obesity</b> - Vijetha P., Parvathi and Adiga Usha	152-158
17.	<b>Genetic diversity of the ornamental plant <i>Anthurium andraeanum</i> in Vietnam</b> - Sen Thi Trinh, Nhi Thi Hoang Ho, Han Ngoc Ho and Hai Thi Hong Truong	159-165
18.	<b>Determination of molecular diversity based on Internal Transcribed Spacer (ITS) sequences of nrDNA in <i>Commiphora wightii</i> (Art.) Bhandari (Guggul)</b> - Joshi Ramesh, Joshi Vinod, Angel Bennet, Angel Annette and Rao Satyawada Rama	166-175
19.	<b>Molecular docking study on the anti-diabetic and anti-inflammatory potential evaluation of phytochemicals in <i>Ruellia tuberosa</i> ethanolic extract</b> - Aswathi Sreenivasan C.V., Angayarkanni T. and Prasanna R. Kovath	176-184
20.	<b>Bioactive compounds and pharmacological activities of <i>Zingiber cassumunar</i> from Eastern India</b> - Panigrahi Rajashree and Parida Reena	185-191
21.	<b>Harnessing cellulolytic potential of a new <i>Aspergillus terreus</i> AP02 strain for developing integrated pre-treatment and saccharification process for efficient lignocellulosic ethanol production</b> - Singh Aatish, Singh Manisha and Pandey Ajay Kumar	192-199
22.	<b>Effects of Liquid Cow Manure Compost Content in Azolla Cultivation on Water Quality, Yield, Chemical Properties and Nutritional Contents</b> - Theerak W., Senkankaew C., Chainam J. and Atiganyanun S.	200-205
23.	<b>Media Optimization for the production of lipopeptide from <i>Streptomyces iconiensis</i> VR1 Strain</b> - Shobana R. and Ranjitha J.	206-211
24.	<b>Morpho-molecular Characterization and Optimization of <i>Aspergillus ustus</i> Strain KUMBASBT-52 isolated from the Litter Soil</b> - Akarsh S., Sowmya H.V. and Thippeswamy B.	212-221
25.	<b>Effects of Extraction Parameters on Total Flavonoid Content and Antioxidant Activity of <i>Cyperus rotundus</i></b> - Zainol N., Aziz N.H. and Mohd Nazaruddin M.H.	222-234
26.	<b>Anticancer and antioxidant potential of pentacyclic triterpenoids isolated from <i>C. carandas</i> a medicinally important plant</b> - Pallem Kasturi, Botcha Satyanarayana, Chrisolite Ch R. and Prattipati Subhashini Devi	235-245
27.	<b>Potential of N-Hexane and N-Butanol Fractions of Kelubut Leaf (<i>Passiflora foetida</i> L.) on Biofilm Inhibition of Monomicrobial <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i></b> - Mochtar Chaerul Fadly, Masdar Zufiha Citra Utami and Dewi Irmala	246-252
28.	<b>Hydromethanolic, infusion and decoction extracts from <i>Hypholoma fasciculare</i>: A comparative study on mycochemical composition and antioxidant activity</b> - Sharma Roshi, Khatua Somanjana, Acharya Krishnendu and Sharma Yash Pal	253-258
29.	<b>RNA-seq Insights into Major Regulatory Networks in Pediatric Leukemia</b> - Yadav Ruchi	259-264

30.	<b>Exploration of bioactive compounds from marine derived <i>Streptomyces coelicolor</i> strain KR23 for insights into antimicrobial potential and secondary metabolite profiling</b> - Kiruthiga R., Bharathidasan R. and Thiruneelakandan G.	265-270
31.	<b>Additive effect of AM Fungus and Rhizobium with Molybdenum sources on Growth and Nutrient Content of <i>Tamarindus indica</i> L.</b> - Channabasava A. and Lakshman H.C.	271-276
32.	<b>Antibiofilm effects of tannins from <i>Delonix elata</i> Linn.</b> - Rajeswari G., Doss A., Kumari Pushpa Rani T.P. and Praveen Pole R.P.	277-282
33.	<b>Potential of <i>Aeromonas dhakensis</i> in bioremediation of an Azo and Untreated Dye effluent sample</b> - Shaikh Afreen and Birmole Radhika	283-291
<b>Review Papers:</b>		
34.	<b>Role of BRCA1 mutations in breast cancer susceptibility and treatment strategies</b> - Ashiru Aliyu Zainulabidin, Aminu Jibril Sufyan, Uwaisu Nura kani, Muthu Kumar Thirunavukkarasu and Yusuf Abdulrauf Muhammad	292-299
35.	<b>Microbial Biosensors: Design considerations, applications and challenges</b> - Chawla Sonam, Sharma Megha and Kaur Gurpreet	300-312
36.	<b>Actinomycetes: An envelope of innovative bioactive substances</b> - Aiswarya S.L., Sasikumar J.M. and Pradeep B.V.	313-324

❖ EDITORIAL BOARD: P V ❖