Profile

Dr. P. Balaji, Ph D
Technical Consultant – Toxicologist / Microbiologist
DIQC Lifesciences Private Limited, Chennai

Dr. P. BALAJI

Contact: +91-9843907474 ~ **E-Mail**: balaji_paulraj@yahoo.com

PROFESSIONAL SYNOPSIS

- An eminent scholar having gained **over 20 years** of rich experience in managing collaborative and independent research functions.
- Masters and Doctor of Philosophy in Microbiology from Madurai Kamaraj University, Madurai.
- Specialization in the area of Toxicology (Animal and Environmental)
- Citation Index – 1847; h-index – 23 and i10 index – 40 (*https://scholar.google.com/citations?hl=en&user=TIk2nKIAAAAJ&view_op=list_works&sortby=pubdate)
- Resourceful in deploying various methodologies to analyse various scientific processes in large scale production, recommending modifications to minimize escalations, reduce rejection, realize operational efficiencies, control variability, costs & reduce cycle-time.
- Played key role in establishing laboratories in various organizations

ORGANIZATIONAL EXPERIENCE

Jan'22 to till date	***DIQC Lifesciences Private Limited, Chennai***	***Toxicologist / Microbiologist***
Jun'11 – Jan'22	***MGR College, Hosur, Tamil Nadu***	***HOD in Biotechnology***
Jun'10 - Mar'11	***Vysya College, Salem, Tamil Nadu***	***Asst. Professor in Microbiology***
Jun' 08 – May' 10	***Pee Gee College of Arts and Science, Dharmapuri, Tamilnadu***	***Asst. Professor in Biotechnology***
Oct' 04 – Apr' 08	***Thiagarajar College, Madurai, Tamilnadu***	***Research Scholar in Microbiology***

PROFESSIONAL RECOGNITION

S. No.	Name of the award	Awarding agency	Since
1.	Full Member	Society of Toxicology, USA	2019
2.	Professional Member	Society of Environmental Toxicology and Chemistry Asia-Pacific	2019
3.	Senior Member	Asia-Pacific Chemical, Biological& Environmental Engineering Society (APCBEES)	2011
4.	Life Member	Association of Microbiologists of India	2006

BOOKS

1. **Balaji, P.** 2020. Environmental Toxicology. PG and Research Centre in Biotechnology, Hosur. ISBN 978-93-5396-157-2.

2. **Balaji, P.** 2019. *Advances in Bioplastics*. PG and Research Centre in Biotechnology, Hosur. ISBN 978-93-5351-226-2.

RESEARCH PUBLICATIONS: (Recent 15)

1. *Ravaioli, S., De Donno, A., Bottau, G., Campoccia, D., Maso, A., Dolzani, P., Balaji, P., Pegreffi, F., Daglia, M. and Arciola, C.R., 2024. The Opportunistic Pathogen Staphylococcus warneri: Virulence and Antibiotic Resistance, Clinical Features, Association with Orthopedic Implants and Other Medical Devices, and a Glance at Industrial Applications. Antibiotics, 13(10), p.972. https://doi.org/10.3390/antibiotics13100972 (**Impact factor: 4.3**)*

2. *Chandrasekaran, T.S., Milton, J., Santhanabharathi, B., Pradhoshini, K.P., Cojandaraj, L., Priyadharshini, M., Ahmed, M.S., Musthafa, M.S., Balaji, P. and Faggio, C., 2024. Heavy Metals Toxicity in Edible Bivalves and Risk Exposure to Humans through its Consumption from Adyar Estuary, Tamilnadu, India–A Baseline Study. Regional Studies in Marine Science, p.103854. https://doi.org/10.1016/j.rsma.2024.103854 (**Impact factor: 2.1**)*

3. *De Lellis, L.F., Morone, M.V., Buccato, D.G., Cordara, M., Larsen, D.S., Ullah, H., Piccinocchi, R., Piccinocchi, G., Balaji, P., Baldi, A. and Di Minno, A., 2024. Efficacy of Food Supplement Based on Monacolins, γ-Oryzanol, and γ-Aminobutyric Acid in Mild Dyslipidemia: A Randomized, Double-Blind, Parallel-Armed, Placebo-Controlled Clinical Trial. Nutrients, 16(17), p.2983. https://doi.org/10.3390/nu16172983 (**Impact factor: 4.8**)*

4. *Prema P, Ali D, Nguyen V-H, Pradeep BV, Veeramanikandan V, Daglia M, Arciola CR, **Balaji P**. 2024. A Response Surface Methodological Approach for Large-Scale Production of Antibacterials from Lactiplantibacillus plantarum with Potential Utility against Foodborne and Orthopedic Infections. Antibiotics. 13(5):437. https://doi.org/10.3390/antibiotics13050437 (**Impact factor: 4.8**)*

5. *Vijayaraghavan, P., Veeramanikandan, V., Pradeep, B.V., Pothiraj, C., Alarjani, K.M., Al Farraj, D.A., Nguyen, V.H. and **Balaji, P.,** 2024. Enhanced Aerobic Naphthalene Degradation Utilizing Indigenous Microbial Flora as a Biocatalyst in Oil-Contaminated Wastewater. Topics in Catalysis, pp.1-11. https://doi.org/10.1007/s11244-024-01953-5 (**Impact factor: 3.6**)*

6. *Gobinath, R.M., Pothiraj, C., Arumugam, R., Periyakaruppiah, P., Ali, D., Alarifi, S., Veeramanikandan, V., Pradeep, B.V., Nguyen, V.H. and* ***Balaji, P.,*** *2024. Biocatalytic Conversion of Lignocellulosic Water Hyacinth Biomass by Phanerochaete chrysosporium for Sustainable Ethanol Production. Topics in Catalysis, pp.1-11. https://doi.org/10.1007/s11244-024-01952-6 (**Impact factor: 3.6**)*

7. *Charoenphun, N., Chucherd, P.,* ***Paulraj, B.*** *and Venkatachalam, K., 2024. Influence of Melatonin Coating on Physiochemical Qualities and Enzymatic Activities in Banana Pericarp under Cold Storage. Horticulturae, 10(4), p.364. https://doi.org/10.3390/horticulturae10040364 (**Impact factor: 3.1**)*

8. *Gokul, T.A., Kumar, K.R., Venkatachalam, K., Babu, R.S., Veeramanikandan, V., Sagadevan, S. and* ***Balaji, P.,*** *2024. Plant-Based nanostructure for wound healing–An emerging paradigm for effective therapy. Inorganic Chemistry Communications, p.112162 (**Impact factor: 3.8**)*

9. *Karempudi, V.K., Gokul, T.A., Kumar, K.R., Veeramanikandan, V., Ali, D., Impellitteri, F., Faggio, C., Ullah, H., Daglia, M. and* ***Balaji, P.****, 2024. Protective role of Pleurotus florida against streptozotocin-induced hyperglycemia in rats: A preclinical study. Biomedicine & Pharmacotherapy, 170, p.116005. https://doi.org/10.1016/j.biopha.2023.116005 (**Impact factor: 7.5**)*

10. *Ramya, S., Barathinivas, A., Jayakumararaj, R., Pothiraj, C., Ali, D., Piccione, G., Multisanti, C.R.,* ***Balaji, P.*** *and Faggio, C., 2023. Ecotoxicological insights: Effects of pesticides on ionic metabolism regulation in freshwater catfish, Mystus keletius. Aquatic Toxicology, 265, p.106764. https://doi.org/10.1016/j.aquatox.2023.106764 (**Impact factor: 4.5**)*

11. *Krishna, K.V., Murugan, J.M., Khan, H., Kumar, M., Veeramanikandan, V., Hatamleh, A.A., Al-Dosary, M.A., Venkatachalam, K. and* ***Balaji, P.,*** *2023. Exploring the therapeutic potential of edible Pleurotus mushroom species for oxidative stress and diabetes management. Journal of King Saud University-Science, 35(9), p.102926. https://doi.org/10.1016/j.jksus.2023.102926 (**Impact factor: 3.8**)*

12. *Pothiraj, C., Gokul, T.A., Kumar, K.R., Ramasubramanian, A., Palanichamy, A., Venkatachalam, K., Pastorino, P., Barcelò, D.,* ***Balaji, P.*** *and Faggio, C., 2023. Vulnerability of microplastics on marine environment: A review. Ecological Indicators, 155, p.111058. https://doi.org/10.1016/j.ecolind.2023.111058 (**Impact factor: 6.9**)*

13. *Ramasubramanian, A., Selvaraj, V., Chinnathambi, P., Hussain, S., Ali, D., Kumar, G.,* ***Balaji, P.*** *and Sagadevan, S., 2023. Enhanced photocatalytic degradation of methylene blue from aqueous solution using green synthesized ZnO nanoparticles. Biomass Conversion and Biorefinery, pp.1-12. https://doi.org/10.1007/s13399-023-04992-2 (**Impact factor: 4.0**)*

14. *Paramasivam, V., Paulpandian, P., Venkatachalam, K., Hussain, S., Kangal, A., Al Farraj, D.A., Elshikh, M.S. and* ***Balaji, P.,*** *2023. Cytotoxicity and Antimicrobial efficiency of gold (Au) nanoparticles formulated by green approach using Andrographis paniculata leaf extract. Journal of King Saud University-Science, 35(5), p.102687. https://doi.org/10.1016/j.jksus.2023.102687 (**Impact factor: 3.8**)*

15. *Palaniappan, U., Kannaiyan, J.,* ***Paulraj, B.,*** *Karuppiah, P., Basavarajappa, S., Syed, A., Elgorban, A.M., Zaghloul, N.S. and Veeramanikandan, V., 2023. Combining Mesenchymal Stem Cells Derived from Wharton's Jelly and Amniotic Biomaterial Scaffolds for Cell Delivery. ACS omega, 8(27), pp.24351-24361. https://doi.org/10.1021/acsomega.3c01689 (**Impact factor: 4.1**)*