




Bharathiar University

State University | "A++" Grade by NAAC | 26th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p>Prof R. SATHISHKUMAR Professor and Head Department of Biotechnology Bharathiar University Coimbatore Tamil Nadu E-mail: rsathish@buc.edu.in Phone: 9360151669 Office Number: 0422-2428299</p>	
<p>Research Area</p> <ul style="list-style-type: none"> • Plant Metabolic Engineering • Plant Molecular Farming • Plant DNA Barcoding 	<p>Courses Teaching</p> <ul style="list-style-type: none"> • Plant Biotechnology • OMICS Concepts • Bioinformatics and Systems Biology • Plant Molecular Farming
<p>Research Experience: 25</p>	<p>Teaching Experience: 21</p>
<p>Research Credentials (as on April 2025 – Source: Google scholar) H-index: 34 Citations: 4045 i10-index: 102</p>	
<p>Patents : Granted: 2</p>	
<p>Publications International Journals: 130 National Journals: 5 Conferences: 10 Books/Chapters: 33</p>	
<p>Career</p> <p>Other Institutes</p> <p>1. Designation : Post Doctoral Fellow Institution Name : The University of Hong Kong, Hong Kong Period : February 1999 - April 2005</p> <p>At Bharathiar University</p> <p>1. Designation : Professor and Head Period : January 2021 - Till Date</p> <p>2. Designation : Professor Period : April 2018 - January 2021</p> <p>3. Designation : Associate Professor Period : April 2015 - April 2018</p> <p>4. Designation : Assistant Professor Period : April 2005 - April 2015</p>	
<p>Education</p> <p>Ph. D. Subject : Botany Institution : Madurai Kamaraj University, Madurai, India Affiliated University : Madurai Kamaraj University Year of Award : August 1998</p> <p>M. Phil. Subject : Botany Institution : Pondicherry University, Pondicherry, India Affiliated University : Pondicherry University Year of Award : November 1991</p>	



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State University I "A⁺⁺" Grade by NAAC I 26th Rank in MoE-NIRF
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Prof R. SATHISHKUMAR , Professor and Head , Department of Biotechnology

M. Sc.

Subject : Botany

Institution : Madras Christian College, Chennai, India

Affiliated University : University of Madras

Year of Award : May 1990

B. Sc.

Subject : Botany

Institution : Loyola College, Chennai, India

Affiliated University : University of Madras

Year of Award : April 1988

Projects

National Level

Ongoing - 1 completed - 15

International Level

Ongoing - completed - 6

Research Guidance

On Going

Ph.D. - 8

Completed

Ph.D. - 1

Consultancy/Responsibilities

Ongoing - completed - 12

Subcommittee member - Professor

Period :Jan 2019 - Dec 2021

Nature of Responsibility :Framing policies to employ DNA barcoding to IPC, Government of India.

Internal Expert - Professor

Period :Jan 2019 to Till date

Nature of Responsibility :IPR cell, Bharathiar University.

Local Coordinator - Professor

Period :Jan 2017 - Dec 2020

Nature of Responsibility :GIAN Courses, Bharathiar University.

Member - Associate Editor

Period :Jan 2019 - Dec 2022

Nature of Responsibility :Screening and monitoring the research projects in Project Monitoring-Screening and Evaluation Committee (PM-SEC), Tamil Nadu Higher Education Department, Tamil Nadu Government, Tamil Nadu.

Reviewer - Professor

Period :Jan 2019 to Till date

Nature of Responsibility :Reviewing the UGC-STRIDE research project proposals, MHRD, Government of India, India.

Reviewer - Professor

Period :Jan 2010 to Till date

Nature of Responsibility :Reviewing the DST-SERB research project proposals, MHRD, Government of India, India.

Reviewer - Professor

Period :Jan 2019 to Till date

Nature of Responsibility :Reviewing the IFGTB research project proposals, Indian Council of Forest Research, Government of India, India.

Coordinator - Professor

Period :Jan 2016 - Dec 2022

Nature of Responsibility :DST PURSE Phase II, Bharathiar University.

Member Secretary - Professor

Period :Jan 2010 to Till date

Nature of Responsibility :Incharge of IBSC, Bharathiar University.



Program Coordinator - Professor

Period :Jan 2020 to Till date

Nature of Responsibility :DBT sponsored "M.Sc. Medical Biotechnology".

Visits

1. Academic Visitor (2008-08-31 - 2008-08-12)

Collaborations

1. Academic Visitor (2024-08-06 - 2024-08-09)

Patents

Granted - 2

1. Novel Method for the Detection of Adulteration in Expensive Aromatic Rice by Cheaper Non-Aromatic Rice. 03-2022 Indian Patent No. 392785 Dr. S. Balamurugan, Dr. S. Bala Murugan, Dr. Inchakalody P Varghese, Dr. M. C. Harish, Dr. R. Sathishkumar
2. Genetically modified plants comprising SARS-CoV viral nucleotide sequences and methods of use thereof for immunization against SARS. 06-2005 US patent No. WO2005054473-A1 Mee Len Chye, Hong Ye Li, Sathishkumar Ramalingam, Leo Lit Man Poon and Joseph Sriyal Malik Peiris

Selected Publications

1. SmERF6 Promotes the Expression of Terpenoid Pathway in *Salvia officinalis* and Improves the Production of High Value Abietane Diterpenes, Carnosol and Carnosic acid

Plant And Cell Physiology (January 2025)

Bharadwaj Revuru, Gayathri Thashanamoorathi, Prathiba Demiwal, Debabrata Sircar, Sathishkumar Ramalingam

2. Artificial intelligence-driven systems engineering for next-generation plant-derived biopharmaceuticals

Frontiers in Plant Science (November 2023)

Parthiban, S., Vijeesh, T., Gayathri, T., Shanmugaraj, B., Sharma, A., & Sathishkumar, R.

3. Plant-Based Recombinant Dengue Envelope Domain III (EDIII) Antigens for the Development of Serotype-Specific Rapid Diagnostic Kit

International Journal of Infectious Diseases (August 2023)

Parthiban S, Sathishkumar R.

4. Expression of Recombinant Envelope Domain III Protein in Prokaryotic and Eukaryotic Host System For the Diagnosis of Kyasanur Forest Disease Virus (KFDV)

International Journal of Infectious Diseases (August 2023)

Gayathri T., Sathishkumar R.

5. Enhanced vitamin E content in an *Indica* rice cultivar harbouring two transgenes from *Arabidopsis thaliana* involved in tocopherol biosynthesis pathway

Plant Biotechnology Journal (August 2021)

Sundararajan, S., Rajendran, V., Sivakumar, H. P., Nayeem, S., Chandra, H. M., Sharma, A., & Ramalingam, S.

6. Overexpression of Glyoxalase III gene in transgenic sugarcane confers enhanced performance under salinity stress

Journal of Plant Research (August 2021)

Mohanam, M. V., Pushpanathan, A., Padmanabhan, S., Sasikumar, T., Jayanarayanan, A. N., Selvarajan, D., Ramalingam, S., Ram, B. and Chinnaswamy, A.



7. Taxonomic delimitation of endemic *Ficus amplocarpa* and *Ficus dalhousiae* Complexes (Moraceae) by DNA

barcoding

Phytotaxa (August 2020)

Mahima, K., Sudhakar, J. V., & Ramalingam, S.

8. Molecular identification and evolutionary relationships between the subspecies of *Musa* by DNA barcodes

BMC genomics (August 2020)

Dhivya, S., Ashutosh, S., Gowtham, I., Baskar, V., Harini, A.B., Mukunthakumar, S. and Sathishkumar, R.

9. Molecular phylogeny of the *Ficus virens* complex (Moraceae)

Genome (August 2020)

Mahima, K., Sudhakar, J. V., & Sathishkumar, R.

10. Overexpression of homogentisate phytyltransferase (HPT) and tocopherol cyclase (TC) enhances ?-tocopherol content in transgenic tobacco

Biologia Plantarum (August 2013)

Harish, M. C., Dachinamoorthy, P., Balamurugan, S., Murugan, S.B., and Sathishkumar, R.