

Curriculum Vitae

Dr. Balasubramanian Natesan, Ph. D.,

Associate Professor
 Plant and Microbial Molecular Laboratory
 Department of Botany, Faculty of Science
 Tripura University (A Central University)
 Suryamaninagar, Agartala
 Tripura-799 022, India
 Mobile No: +91-7094952367 / 7904850187
 Email: balasubramanian.natesan@tripurauniv.ac.in



Personal Profile

Nationality	:	Indian
Known Language	:	Tamil, English, Portuguese (Sufficient)
Overseas visited	:	Argentina, Germany, Malaysia, Portugal, Spain, Singapore, Taiwan, The Netherland, USA.

Academic Profile

Teaching Experience	:	12 years
Research Experience	:	20 years
Google Scholar Citations	:	1660
	:	h-Index, 21
	:	i10-Index, 30
Scopus Citations	:	910
	:	h-Index, 17
Researcher Id	:	M-3016-2014
Scopus Id	:	57210113524
Orcid Id	:	0000-0003-1819-0730
Google Scholar Id:	:	https://scholar.google.com/citations?user=yypys43oAAAAJ&hl=en
Teaching subjects	:	Mycology, Plant Pathology, Microbiology, Molecular Biology and Phytochemistry.
Research Interest	:	Plant-microbial interaction and metabolides; Plant diseases and Biological control; Host-pathogen interaction; Microbial genes and Protein characterization; Medicinal plants and phytochemistry.

Academic Qualification

- Ph. D., : University of Madras, Chennai, India, 2003.
- M. Phil., : University of Madras, Chennai, India, 1999.
- M. Sc., : Bharathidasan University, Tiruchirappalli, India, 1998.
- B. Sc., : Bharathidasan University, Tiruchirappalli, India, 1996.

Certificate Course : One Year Course on "Herbal Medicine"
: One Year Course on "Library and Information Services"

Fellowships

- Ramanujan Fellow : DST-SERB, Govt. of India, New Delhi, 2015
- Post Doctoral Fellow : FCT, Portugal, 2013
- Post Doctoral Fellow : FRCT, Azores, Portugal, 2009
- Post Doctoral Fellow : DRCT, Azores, Portugal, 2006
- Post Doctoral Fellow : National Science Council, Taiwan, 2004
- Project Associate Fellow : UGC-INFHES, India, 2002
- Senior Research Fellow : Dept. of Biotechnology (DBT), India, 2001
- Senior Research Fellow : Dept. of Ocean Development (DOD), India, 1999

Awards & Honors

- Young Scientist Award in Immunology : Received from PEARL A Foundation for Educational, Excellence on SMART Summit, Tamil Nadu, 2016
- Travel Award : Received from FRCT, Azores, Portugal to attend International Conference on Genomics and Proteomics, Calicut, India, 2011.
- Travel Award : Received from EMBO, Germany and FRCT, Azores, Portugal to attend C. elegans development and expression, EMBL-Heidelberg, Germany, 2010.
- Travel Award : Received from DRCT, Azores, Portugal to attend Proteomics Europe, Barcelona, Spain, 2009.
- Travel Award : Received from DRCT, Azores, Portugal to attend Hostparasite interactions of Biology, Rhode Island, USA, 2008.
- Travel Award : Received from DRCT, Azores, Portugal to attend Proteomics Europe, Amsterdam, The Netherlands, 2007.
- Gold Medal Prize : Best Student in Master of Science, 1998
- Proficiency Prize : Master of Science, 1997
- Proficiency Prize : Bachelors of Science, 1996

Research Projects Completed

Funding agency	Duration	Amount	Project Title
DST-SERB, India	October 2015– September 2020	Rs. 1,05,03,000/-	Studies on human disease causing Streptococcus Pathogenesis and their virulence factors.

DRCT, Portugal	November 2007 – September 2009	Rs. 20,00,000/-	Enhancement of nematode activity and biophysical, biochemical, molecular analysis of serine protease and inhibitors.
----------------	--------------------------------	-----------------	--

High Lighted Peer Reviewed Publications

1. Sarma B, Dhar R, Bhattacharyya PN, Hore P, Begum K, Kalita R, Ahmed S, Handique L, Agarwala N and **Balasubramanian N**. 2026. Epigenetic involvement in hormones signaling pathways and phytohormone crosstalk: An emergong regulatory netwrk. *Journal of Plant Growth Regulation*, doi.org/10.1007/s00344-026-12108-z. **IF.4.4**
2. Himanshu Kumar Bharti, Majumdar S, **Balasubramanian N**, Shailesh Srivastava, Ashwani, Jagdish K Sahu. 2026. Exploring role of Benzimidazole containing scaffolds for the design of new compounds in drug discovery. *Current Organocatalysis*, 13 (1), 2-29. **IF.1.0**
3. **Balasubramanian N**, Pounpandi P, Varatharaju G, Shanmugaiah V, Balakrsknan K and Thirunarayan MA. 2023. Distribution of virulence genes and biofilm characterization of human isolates of *Streptococcus agalactiae*: A pilot study. *Colloids and Surfaces B: Biointerfaces*. 223, Id. 113151, **IF. 6.0** .
4. Priya VT, **Balasubramanian N**, Shanmugaiah V, Sathishkumar P, Kannan N.D, and Karunakaran C. 2021. Partially purified lead molecules from *Dodonaea viscosa* and their antimicrobial inhibitory efficacy against infectious human pathogens, *Journal of Infection and Public Health*, 14, 1822-1830. **IF.7.53**.
5. Muthulakshmi L, Pavithra U, Sivaranjani V, **Balasubramanian N**, Sakthivel K, Catalin Iulian Prunce. 2021. Preparation and Characterization of a Novel Ag/Carrageenan–gelatin Hydrogel Hybrid Nanocomposite for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*. 115, doi: 10.1016/j.jmbbm.2020.104257. **IF.4.04**
6. Karmegham N, Vellasamy S, **Natesan B**, Sharma M.P, Al Farraj D.A, Elshikh M.S. 2020. Characterization of antifungal metabolite phenazine from rice rhizosphere fluorescent pseudomonads (FPs) and their effect on sheath blight of rice, *Saudi Journal of Biological Sciences*, 27 (12), 3313–3326. **IF.4.05**
7. Alves-Barroco C, Roma-Rodrigues C, **Balasubramanian N**, Guimaraes MA, Ferreira-Carvalho BT, Muthukumar J, Nunes D, Fortunato E, Martins R, Santos-Silva T, Figueiredo AMS, Fernandes AR, Santos-Sanches I. 2019. Biofilm development and computational screening for new putative inhibitors of a homolog of the regulatory protein BrpA in *Streptococcus dysgalactiae* subsp.*dysgalactiae*. *International Journal of Medical Microbiology*, 309(3-4),169-181. doi:10.1016/j.ijmm.2019.02.001. **IF.3.65**
8. Kuleshevich E, Ferretti J, Santos Sanches I, **Balasubramanian N**, Spellerberg B, Efstratiou A, Kriz P, Grabovskaya K, Arjanova O, Savicheva A, Suvorov A. 2017. Clinical strains of *Streptococcus agalactiae* carry two different variants of pathogenicity island XII. *Folia Microbiologica*, 62(5), 393-399. **IF.2.62**
9. Harikrishnan H, Shanmugaiah V, **Balasubramanian N**, Sharma MP, Kotchoni SO, 2014. Antagonistic potential of native strain *Streptomyces aurantiogriseus* VSMGT1014 against sheath blight of rice. *World Journal of Microbiology and Biotechnology*,30 (12), 3149-3161. **IF.4.25**

10. **Balasubramanian N**, and Simões N. 2014. *Bacillus pumilus* S124A carboxymethylcellulase: a thermo stable enzyme with a wide substrate spectrum utility. International Journal of Biological Macromolecules, 67, 132–139. **IF.8.02**
11. Toubarro D, Avila M.M, Hao Y.J, **Balasubramanian N**, Jing Y, Rafael M, Faria T.Q, Brito R.M and Simões N. 2013. A serpin released by an entomopathogen impairs clot formation in insect defense system. PLoS ONE 8(7), e69161. **IF.3.75**
12. **Balasubramanian N**, Nascimento G, Ferreira R, Martinez M and Simões N. 2012. Pepsin-like aspartyl protease (Sc-ASP155) cloning, molecular characterization and gene expression analysis in developmental stages of nematode *Steinernema carpocapsae*. Gene, 500 (2), 164–171. **IF.3.91**

Patent & Policy

- Indian Patent : Liver Screening AI Device. Published Journal No is 06/2026 and Dated 06/02/2026. Certificate No: LD-20260181631.

Research Guidance

- M.Sc Project Completed : 18
- Ph.D ongoing : 03
- M.Sc ongoing : 07

Articles Published

- Articles published : 45
- Books/Manual : 04
- Book Chapter : 10
- Conference Proceedings : 04
- DNA Sequences to NCBI Data Base : 37

Papers and Posters Presented in Conferences/Symposium/Seminar

- National Level : 53
- International Level : 50
- Invited Talk : 11
- Workshop and Training Course attended : 11
- Conference Session Chair : 05

Scientific Activities

- Membership in Scientific Bodies : 10
- Journal Associate Editor : 03
- Journal Reviewed : 28
- Conference Organizing & Committee : 10
- Ph.D Thesis adjudicated : 06

Academic Committee & Member

- Coordinator- Diploma course on Aquaculture and Entrepreneurship, Tripura University, Suryamaninagar, Tripura.
- Member, BFS, BPGS, Department of Botany, Faculty of Science, Tripura University, Suryamaninagar, Tripura.
- Members-Anti-ragging Squad (ARS), Tripura University, Suryamaninagar, Tripura.
- Member- Bamboo Cultivation and Resource Utilization course proposal and syllabus formation committee, Tripura University, Suryamaninagar, Tripura.
- Member- New course induction and inspection committee to Tripura Agricultural College, Tripura.
- Member-Guest faculty selection committee for the Department of Botany, Tripura University, Suryamaninagar, Tripura.
- Member-13, 14, & 15th Convocation subcommittee, Tripura University, Suryamaninagar, Tripura.
- Member- Ph. D Thesis Advisory committee, Faculty of Agriculture, University of Guyana, Guyana, South America.

Extention Activities

- All India Radio Talk, Tuticorin, Tamil Nadu
- Member in National Service Scheme (NSS)
- Inplant Traininer for B.Tech Students (KLU)