

Name : Dr. V. BHUVANESHWARI

Designation : Associate Professor

Department : Biotechnology

Qualification : M.Sc., M.Phil., PGDBL., PGDNBT., Ph.D., Biotechnology

TNSET Qualified

Experience : Teaching -16 Years

Research : 20 Years

Area of Specialization(s) :

- Plant Molecular Biology
- Genetic Engineering
- Bioinformatics
- Nanobiotechnology

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Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
Ph.D.	Biotechnology	Amity Institute of Biotechnology, Amity University, NOIDA, India.	2012
M.Phil.	Biotechnology	Bharathidasan University, Trichy, Tamil Nadu, India	2006
M. Sc.	Biotechnology	Bharathiar University, Coimbatore, Tamil Nadu, India	2004
B.Sc.	Biotechnology	Kongunadu Arts and Science College (Bharathiar University), Coimbatore, Tamil Nadu, India	2002
M.Sc	Botany	Bharathiar University, Coimbatore, Tamil Nadu, India	2019

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
PG Diploma	Bioinformatics	Bharathiar University, Coimbatore, Tamil Nadu, India	2008
PG Diploma	Nanobiotechnology	Life Science Foundation of India, Bangalore, Karnataka, India	2009

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph.D	6	-
M.Phil	3	-

Research Publications (Indexed) -32 Nos

- Transcriptomics, cheminformatics, and systems pharmacology strategies unveil the potential bioactives to combat COVID-19. Adarshan, S., Akassh, S., Avinash, K., Bharathkumar, M., Muthuramalingam, P., Shin, H., Baskar, V., Chen, J.T., **Bhuvaneshwari, V.** and Ramesh, M., *Molecules*, 27(18), p.5955 (2022). (SCI Impact:4.6)
- Dual specific protein kinases mediate neem fruit extract-induced defense gene expression in *Solanum lycopersicum* L., **Bhuvaneshwari V.**; Paul P.K., *South African Journal of Botany*, Vol. 155:16-26 (2023). (SCI Impact:2.7)
- Molecular Docking and Pharmacokinetic Assessment of Oleanolic Acid Targeting Human ERR α : A Computational Approach for Anti-Cancer Drug Design, R. Amsaveni and **V. Bhuvaneshwari**, *2024 International Conference on Emerging Research in Computational Science (ICERCS)*, Coimbatore, India, 1-4 (2024) doi: 10.1109/ICERCS63125.2024.10894897.
- Exploring quercetin based nano formulation in combating human Metapneumovirus infections. **Bhuvaneshwari, V.** and Amsaveni, R., *International Immunopharmacology*, Vol. 153:114510 (2025) (SCI Impact:4.7)
- The growing threat of Guillain-Barré syndrome: Why awareness matters, Amsaveni, R., and **V. Bhuvaneshwari**. *Ceylon Journal of Science* 54, no. 3 (2025).
- Isolation and Characterization of Protease-Producing Bacteria from Metal-Contaminated Soil for Thrombolytic Therapy, Vinothini, Shanmugam Lekha, Ayyampillai Brindha, Balasundram Geethanjali, Shanmugam Yuvanandhan, Subramaniyam Tamilselvi, **Veluswamy Bhuvaneshwari**, and Ramasamy Amsaveni. *The Microbe* 8: 100460 (2025)
- Emerging threat of scrub typhus: A call for greater awareness and research, **Bhuvaneshwari, V.**, & Amsaveni, R., *International Immunopharmacology*, 164, 115387 (2025). (SCI Impact:4.7)

Other Publications: International/National -42 Nos

Book Published -4 Nos

Book Chapter Published – 2 Nos

- Nanophosphorous fertilizer: promoting sustainable agriculture practices, **V. Bhuvaneshwari**, *Nanofertilizer Synthesis Methods and Types, Nanobiotechnology for Plant Protection*, 269-280 (2024)
- Antimicrobial activity of copper nanomaterials: current status and future perspectives. **Bhuvaneshwari, V.**, Ramasamy, N.K., Kumar, S.I., Kalaivani, S., Vaidehi, D. and Kumar, D.K.,

Copper nanostructures: next-generation of agrochemicals for sustainable agroecosystems, pp.453-475 (2022)

Acted as a Resource Person

1. Workshop / FDP – 60
2. Seminar / Conference - 50

Reviewer in journal -18 Scopus Indexed Journals

Editor in journal – 3 Nos

Energy Nexus, Elsevier, (SCI Impact-9.8)-Acted as Guest Editor

Paper Presentations in Conference -50 Nos

Participation in Seminar/Conference- 40 Nos

Participation in Workshop- 90 Nos

Participation in Faculty Development Programme – 15 Nos

- Participated in a Six-Day Faculty Development Programme (FDP) on “Mentoring the Mentors” conducted by Hindusthan College of Arts and Science from 2nd September 2024 to 9th September 2024.
- Attended a Six-Day International FDP on “Nano Innovations: Shaping the World of Tomorrow (NISWT’24)” organized by Sri Indu College of Engineering and Technology, Hyderabad from 9th September 2024 to 14th September 2024.
- Participated in a Five-Day National Level Virtual FDP on “Innovative Trends in Artificial Intelligence for Teaching and Research” held from 27th January 2025 to 31st January 2025.
- Completed an AICTE Training and Learning (ATAL) Academy FDP on “Revolutionizing Healthcare and Biotechnology: Role of AI and Computational Techniques” conducted by Sethu Institute of Technology from 3rd February 2025 to 8th February 2025.
- Attended an AICTE Training and Learning (ATAL) Academy FDP on “Sustainable Biofuels from Agri and Agro-Industrial Wastes by Microbes” organized by Shree Venkateshwara Hi-Tech Engineering College from 24th February 2025 to 1st March 2025.
- Participated in an FDP on “AI Mastery of Educators” conducted by Vishlesan i-HUB, IIT Patna from 15th May 2025 to 7th June 2025.

Conference/Seminar/Workshop Organized – 60 Nos

- **30 June 2025** – Acted as Co-ordinator in organizing one-day *Health and Hygiene Awareness Programme* for the tribal women of Kokkal Village, Nilgiris, in connection with National Doctors' Day and World Microbiome Day. This community outreach initiative was organized under the Popularization of Science Scheme, with generous support from TNSCST and NCSTC, DST, Government of India.
- **12–13 December 2024** – Actively involved as Organizing Secretary in *TNSCST-sponsored National Conference on Probiotics, Prebiotics, Postbiotics and Biofortification* organized by the Centre of Excellence in Life Sciences, Department of Biotechnology, PSGR Krishnammal College for Women, Coimbatore.
- **3–4 October 2024** – Actively involved as Organizing Secretary in *Two-Day National Level Hands-On Workshop on Innovative Tools for Plant Genome Editing Using CRISPR/Cas9 Technology* organized by the Centre of Excellence in Life Sciences, Department of Biotechnology, PSGR Krishnammal College for Women, Coimbatore.

Grants-4 Nos

- A **UGC Minor Research Project** titled “*Molecular Analysis of Acquired Resistance Induced by Salicylic Acid on Salt-Stressed Solanum melongena L.*” was carried out with a grant of **Rs. 2,93,000/-** during **2014–2016** (Ref: F.No: MRP-4998/14(SERO/UGC) dated March 2014). The project has been **completed**.
- A **DST-SERB TARE project** entitled “*Biogenesis of Nanomaterials from Effective Trichoderma spp. for the Management of Red Rot Disease in Sugarcane*” was undertaken with a funding of **Rs. 18,30,000/-** for the period **2019–2022**, under the mentorship of **Dr. P. Malathi**, Sugarcane Breeding Institute, Coimbatore. The project has been **completed**.
- A **SPARC grant** entitled “*Socio-Economic Analysis of Textile Effluent Pollution Impact in the Noyyal River and Exploration of Remediation through Algae and Graphene Membrane*” was sanctioned by the **Ministry of Education** for **Rs. 21,99,450/-** during **2023–2025** (Proposal No. 2569). The **Indian PI** was **Dr. Muthukumar K** (Kongunadu Arts & Science College), the **International PI** was **Dr. David Ian Benson** (University of Exeter), and the **International Co-PI** was **Dr. Senthilarasu Sundaram** (Teesside University, United Kingdom). The project has been **completed**.
- A research project entitled “*Biosynthesis of Glucose-Mediated Zinc Oxide Nanoparticles for Plant Growth in Tomato Plants*” was completed funded by the **GRG Trust – Management** with a grant of **Rs. 1,39,840/-** for the duration **1st September 2023 to 30th August 2025**.

Patents -3 Nos

Indian Patents granted

- ❖ Dr. V. Bhuvaneshwari and Prof. P.K.Paul, 2019. “**Kit for demonstrating DNA-protein interaction in plants**” (Patent No: 325819).

Indian Patents filed (Final)

- ❖ A novel broad spectrum biocide for controlling diseases of crops (Patent Appn No: 2737/DEL/2011).
- ❖ **Kit for demonstrating protein-protein interaction in cytoplasm of plants** (Patent Appn No: 3961/DEL/2012).

Membership in Professional Bodies

Life Member in Indian Science Congress Association

Indexing and Citations

- **Citation Score: 1894**
- **H index: 17**
- **i10 Index:28**

Awards/Honors-15 Nos

Contribution

- Member in MHRD'S Institutional Innovation Council (2019 to 2025)
- Committee Member, NIRF Innovation (2023 to till 2025)
- Co-ordinator, Entrepreneur Development Cell (2022 to 2025)
- DST FIST Department Co-ordinator (2023 to till date)