

Dr. B.V.N.V. Bharathi
HOD & Assistant Professor
Life Sciences Program - Microbiology
School of Allied & Healthcare Sciences
Malla Reddy University
Hyderabad, Telangana
E mail: bharathi.b@mallareddyuniversity.ac.in
Contact: 9866236222



Current Position & Working Organization

HOD & Assistant Professor, Life Sciences Program - Microbiology
School of Allied & Healthcare Sciences, Malla Reddy University, Hyderabad

Date of Joining at MRU

01.10.2021

Educational Qualification

- **M.Sc. B.Ed. Ph.D.**

Educational Details:

Ph.D. in Microbiology (2020-2024)

Research Area - MICROBIOLOGY

Research Topic - "Current challenges and approaches in the prevention and management of microbial infections at cardiac surgical sites" from Sunrise University, Alwar.

M.Sc. in Microbiology (2012 - 2014)

- M.Sc. Microbiology, from St. Francis College For Women (an autonomous institution of Osmania University) in 2014 with 7.6 GPA.
- Thesis Title: Written thesis on "**Urinary Tract Infections – Antibiotic Susceptibility Test by using VITEK@2 Technology**". (Vital Innovative Training & Economic Development Center)
- Project work: Project work has done from **Department of Laboratory Medicine, CARE Hospitals, Banjara Hills, Hyderabad.**

B.Ed. (1999)

B.Ed. (Biology and English as Methodologies), Andhra University in 2001 with 71%.

B.Sc. - C B Z (1996-1999)

- B.Sc. (C B Z), Andhra University in 1999 with 74%.

Certification:

CTET in 01/2021

TSTET in 07/2017

APTET in 06/2011

Teaching Experience

- Teaching Experience: 13.5 Years (Higher Education 6 years – Microbiology for UG and PG Programs and 7.5 years – Biological Sciences upto 12th grade level)

Publications:

- Paripuram Dt, Pradhan Ma, Bharathi B, Behera S, Babu R, Nakkella Da. Process For The Production Of Recombinant Proteins in Mammalian Cells Using Gene Editing Technology. TPM–Testing, Psychometrics, Methodology in Applied Psychology. 2025 Nov 25;32(S9 (2025): Posted 15 December):811-21.
- Bharathi B.V.N.V, Cardiovascular Risk Assessment in Women with Polycystic Ovary Syndrome: A Systematic Review, Journal of Applied Bioanalysis, 2025, Vol. 11, No. S1. 432-440. <http://doi.org/10.53555/jab.v11si1.433>
- Bharathi B.V.N.V, Anila Rani Pullagura, Prem Kumar Essgir, R. Bharathnaik, Muni Kumar Dokka, (2025) Lactobacillus as Anti-Biofilm Therapeutics: Formulation and Delivery Challenges in Clinical Translation. *Journal of Neonatal Surgery*, 14 (32s), 4956-4966
- Bharathi B.V.N.V, Nikitha Thanagala, Meera Indracanti, Muni Kumar Dokka Therapeutic Potential Of Probiotic Lactobacillus Strains: Antimicrobial And Antibiofilm Activities Against Multidrug-Resistant Pathogens, International Journal of Environmental Sciences.2025. 11(9s),908-916. <https://doi.org/10.64252/pqcp4396>
- V N V Bharathi, G 1, Dr. Arvind Kumar 2, “Patients’ Preoperative, Intraoperative, And Postnatal Traits In The Management Of Microbial Infections At Cardiac Surgical Sites”, International Journal of Research in Engineering and Applied Sciences ISSN: 2249-3905
Volume link: <https://euroasiapub.org/category/ijreas/past/volume-11-issue-6-june-2021-past/>
Publicationlink:<https://euroasiapub.org/patients-preoperative-intraoperative-and-postnatal-traits-in-the-management-of-microbial-infections-at-cardiac-surgical-sites/>
- V N V Bharathi, G 1, Dr. Arvind Kumar 2, “Characterization Of Biofilm Positive Isolates From Microbial Infections At Surgical Site Infections”, International Research Journal of Natural and Applied Sciences: ISSN: 2349- 4077, Volume link: <https://aarf.asia/applied2.php?p=Volume9,Issue8,August,2022>
- Presented a paper entitled “Smog-Eating Buildings - A Potential Future & An Initiative To Reduce The Global Warming” in One Day National Conference On Viksit Bharat @2047, Malla Reddy University, Hyderabad. Published in conference proceedings, ISBN: 978-93-340-1850-9
- Presented a paper entitled “Clean India initiative: better solutions for sewage problems – especially in natural disasters” in One Day National Conference On Viksit Bharat @2047, Malla Reddy University, Hyderabad. Published in conference proceedings, ISBN: 978-93-340-1850-9
- Presented a paper entitled “Mechanism & applications of crispr genome editing for the better agronomic traits & yield in One Day National Conference On Viksit Bharat @2047, Malla Reddy University, Hyderabad. Published in conference proceedings, ISBN: 978-93-340-1850-9
- Presented a paper entitled “The influence of social media on college students’ health and behaviour – what is the future? in One Day National Conference On Viksit Bharat @2047, Malla Reddy University, Hyderabad. Published in conference proceedings, ISBN: 978-93-340-1850-9
- Presented a paper entitled “How does the drastic environmental changes lead to human hereditary disorders? in One Day National Conference On Viksit Bharat @2047, MallaReddy University,

Hyderabad. Published in conference proceedings, ISBN: 978-93-340-1850-9

- Presented a paper entitled “Revolutionizing desalination – better solutions to face the water scarcity in future in One Day National Conference On Viksit Bharat @2047, MallaReddy University, Hyderabad. Published in conference proceedings, ISBN: 978-93-340-1850-9
- Presented a paper entitled “The Ancient Indian Medical Practice & Health Remedies” in First International Conference Philosophical Research, Science and Literature -ICPRSL-2022 during September 5-6, 2022, organized by Malla Reddy University, Hyderabad. Mrs. Bharathi. B, Published in conference proceedings

BOOK CHAPTERS:

BOOK TITLE: MODERN INSIGHTS IN BIOLOGICAL SCIENCES

- Served as an Associate Editor
- ISBN Number: 978-93-48990-66-2
- This edition published on December, 2025 by Innovation Online Training Academy

ROLE OF MICROORGANISMS IN MEDICINE by Dr. B. V. N. V. Bharathi

- ISBN Number: 978-93-93622-51-8
- Book Title: Role of Plants, Microbes and Animals in Medicine
- The edition published on December, 2024 by Innovation Online Training Academy (Innovation Online Training Academy (IOTA) Publishers)

EMERGING TRENDS IN THE BIOLOGICAL SCIENCES by Dr. B. V. N. V. Bharathi

ISBN Number: 978-93-48990-80-8

Book Title: Recent Developments in Biological Science

The edition published on March, 2025 by Innovation Online Training Academy (Innovation Online Training Academy (IOTA) Publishers)

PATENT:

- Utility patent for Vaayu+: A Biofiltration - Based Algal Air Purifier for Indoor Pollution Control has been applied.

Guide

Experience as a guide for the following Clinical Microbiology - Post Graduation projects, School of Allied and Health Care Sciences, Malla Reddy University:

- Prevalence of methicillin-resistant staphylococcus aureus in surgical site infections
- Evaluation of antibiotic susceptibility pattern of pseudomonas species isolated from infected wounds
- Antimicrobial susceptibility pattern of escherichia coli isolates from surgical site infections
- Screening of candida from clinical samples of adult patients
- Evaluation of antibiotic susceptibility pattern of pseudomonas species isolated from urinary tract infections
- Screening of carbapenem resistant enterobacteriaceae from surgical
- Evaluation of antibiotic susceptibility patterns of bacteria in urinary tract infections of diabetic patients
- Screenig of multidrug resistance klebsiella from clinical samples
- Assesment of antibacterial activity of turmeric on klebsiella species

- Prevalence of candida in respiratory tract infections
- Isolation and identification of air microflora in different academic, service and diagnostic laboratories
- Effect of bioactive compounds on biofilm formation among clinical isolates of staphylococcus aureus
- Isolation and characterization of bacterial pathogens resistant against disinfectants
- Assessment of carbapenem resistance in gram negative clinical isolates
- Prevalence of methicillin resistant staphylococcus aureus carriers among hospital and healthcare workers
- Antibacterial activity of ginger on drug resistant pseudomonas aeruginosa

Mentor/Guide

Experience as a mentor/guide for the following Under Graduation level (B.Sc Life Sciences) Oral and Poster presentations on behalf of School of Allied and Healthcare Sciences, Malla Reddy University:

For International Conference on “Advances in Plant Sciences for Sustainable Future” (ICAPSSF-2024) Organized by Department of Botany & Botany Alumni Osmania University, Hyderabad

- 1) A Natural Mosquito Repellent – Efficacy of Lantana camara & Citronella against Dengue Fever
- 2) Biological Control Agents Using Essential Neem and Tea Tree Oils
- 3) Probiotics and Prebiotics as Therapeutics for the Next Generation
- 4) Conservation Chronicles: Preserving Biodiversity for Tomorrow
- 5) CRISPR-Cas mediated crop improvement under drought conditions
- 6) Production of Biofuels -Towards a Greenery and Secure Energy Future
- 7) Ethno botany: Unveiling the Cultural Significance of Plants in Traditional Medicine
- 8) Production of Biofuels -Towards a Greenery and Secure Energy Future
- 9) Bioinformatics in plant breeding and disease resistance
- 10) Obese To Slim-Miracle by Plants
- 11) Radiation Dynamics in Crop Physiology
- 12) Microplastics affecting plants

For ONE DAY NATIONAL CONFERENCE ON VIKSIT BHARAT @2027, Malla Reddy University.

- 1) Clean India initiative: better solutions for sewage problems – especially in natural disasters

- 2) Mechanism & applications of crispr genome editing for the better agronomic traits & yield
- 3) The influence of social media on college students' health and behaviour –what is the future?
- 4) How does the drastic environmental changes lead to human hereditary disorders?
- 5) Revolutionizing desalination – better solutions to face the water scarcity in future
- 6) **Environmental stewardship through millet production**
- 7) **This miracle fungus can clean water**

For 16th Regional Science & Engineering Fair Competition organized by Telangana Science Fare Academy:

- 1) Plastic Devourers: Exploring *Ideonella sakaiensis*, the PET-Eating Bacteria
- 2) Current Approaches To Replace Streetlights With Bioluminescent Trees To Save Electricity
- 3) Psychobiotics In Mental Health, Neurodegenerative And Neuro-Developmental Disorders
- 4) Tumor Vessel targeting Therapy To Control Angiogenesis
- 5) Microbial Effects On Plastic Degradation
- 6) Impact Of Industrial Waste Management On Aquatic Life And Marine Ecosystem
- 7) Removal of Pollutants from land using Bioremediation
- 8) Modulating the Microbiota as therapeutic intervention in type 2 Diabetes

For Technical Fest organized by School of Allied and Healthcare Sciences, Malla Reddy University:

- 1) Unveiling nature's engineers – Fungal degradation of plastics
- 2) Extending the shelf life of fruits and vegetables by using microbes
- 3) Climate guardians - The power of microbes in combating global warming
- 4) Phages Against Killer Superbugs: A Captivating Strategy to Combat Antibiotic-Resistant Pathogens
- 5) Design your own fabric with the miracle of microbial dyes

Jury Member

Experience as a **JURY MEMBER** to the 16th Regional Science & Engineering Fair Competition organized by **Telangana Science Fare Academy** on 16th December 2023 at Osmania University, Hyderabad.

Membership in college committees:

- Member of **T-HUB**, India's largest incubation centre, Raidurg, Hyderabad representing from School of Allied and Healthcare Sciences, Malla Reddy University.
- Member of **Malla Reddy International Education Centre (MRIEC)**, Malla Reddy University, representing from School of Allied and Healthcare Sciences.
- Member of **The Diplomatic Committee**, Malla Reddy University, representing from School of Allied and Healthcare Sciences.
- Member of **Internal Quality Assurance Cell (IQAC) Committee**, Malla Reddy University, representing from School of Allied and Healthcare Sciences.
- Co-ordinator of **The Microbiologists Society of India - Student Chapter**, Malla Reddy University, representing from School of Allied and Healthcare Sciences.

- Member of **Institutional Scientific Committee (ISC)**, School of Allied and Healthcare Sciences, Malla Reddy University (In 2022).
- Experience as a member in **Disciplinary committee**, School of Allied and Healthcare Sciences, Malla Reddy University (In 2022).
- Experience as a **COORDINATOR** in Board Of Studies Meeting [BOS] for various Allied Health Science Courses (UG – Honor’s Degree) such as Life Sciences , Cardio Vascular Technology, Anaesthesia & Operation Theatre Technology, Emergency Medicine & Critical Care Technology, Medical Bio Technology, Radiology & Imaging Technology, Clinical Nutrition, Food Science & Dietetics, Medical Lab Technology and Post Graduate Courses like Clinical Microbiology, Clinical Nutrition & Dietetics and Clinical Research & Experimental Medicine.
- Experience in designing a UG level course structure and syllabus.
- Played a prominent role in preparation of Microbiology syllabus for BSc. Biotechnology, Biochemistry, Microbiology course (B.Sc Life Sciences) in all six semesters.
- Taught **Human Physiology** in First Semester for AOTT, CVT, MBT, EMCCT & MLT programs and in second semester for BMB, CND and EMCCT courses along with Microbiology.
- Experience as Course HOD / Incharge.
- Experience as Laboratory Incharge and Indent Incharge, Department of Microbiology, School of Allied and Healthcare Sciences.
- Experience in setting the Question Papers for MID Examinations (Both Theory & Practical)
- Experience in making Question Banks for Semester Examinations.
- Experience as an External as well as Internal Practical Examiner for End Semester Practical Examinations.
- Experience as an Invigilator, Moderator, Evaluator & Scrutinizer for the External Examinations.

EMCEE

- Experience as an **Emcee /Anchor** in hosting various programs like Awareness programs, Orientation Programs, Cultural Programs, Guest Lectures etc. in School of Allied and Healthcare Sciences, Malla Reddy University.

Guest Lectures :

- Organized and attended guest lecture on “**Microbes With Therapeutic Properties**” behalf of Department of Microbiology, School of Allied and Healthcare Sciences, Malla Reddy University .
- Attended guest lecture on “**Life style modification for weight loss and diabetes Reversal**” conducted by “World Free of Obesity and Diabetes Campaign” on June 17, 2022.
- Attended many more guest lectures as a faculty of Malla Reddy University, as a PhD scholar of Sunrise University and as a PG student of St. Francis College For Women.

Webinar :

- Attended Webinar on “3D Bioprinted Humanised Disease Organ Models for Drug Discovery” on Jun 24, 2022.

Hands on Work Shop:

- Attended Funding Opportunities and Proposal Writing Techniques, IOT Academy, Coimbatore, Tamilnadu, India
- Participated in Hands On Work Shop conducted by Malla Reddy Institute of Medical Sciences on the concept Basic Teaching & Learning Methodologies at Malla Reddy Health City, Hyderabad.
- Attended 3-day workshop on “Research Publication In Psychology And Human Development” organized by the Department of Psychology, Osmania University, Hyderabad, in collaboration with the Indian Council Of Social Science Research, New Delhi, on Mar 27–29 March, 2013.

National Conferences and seminars:

- Attended National Conference on National Education Policy (NEP) – 2020, Malla Reddy University.
- Attended Global South Conference on Infection Prevention and Control and Antimicrobial Stewardship(G-SPARC), at Hitech city, Hyderabad, India.
- Participated in “A Two-day National Conference on National Education Policy (NEP) – 2020, held on 14th-15th Feb 2025 organised by Malla Reddy University, Hyderabad, India.
- Attended 3-day Global South Conference on Infection Prevention and Control and Antimicrobial Stewardship(G-SPARC) on 3rd October to 5th October, 2024, Hyderabad, Telangana.
- Attended 3-day national seminar on “Recognising Holistic Learning For Quality Enhancement” on Feb 8-9, 2013, in St. Francis college for Women, Begumpet, Hyderabad.
- Attended Research Publication In Psychology And Human Development” organized by the Department of Psychology, Osmania University, Hyderabad, in collaboration with the Indian Council Of Social Science Research, New Delhi

Faculty Development Program

- Participated in the “Ten Days National Level Faculty Refresher Program on Teaching and Learning in HEI’s” held from 3rd to 14th February 2025, organized by IOT Academy, Coimbatore, Tamilnadu, India.
- Attended 2-day Faculty Development Program at School of Allied and Healthcare Sciences, Malla Reddy University.
- Student Professional Behaviour & Quality Education through Constructive and Positive Engagement, Malla Reddy University.
- Attended 2-day Faculty Development Program at Malla Reddy University.

Field trips or visits:

- Visited **CCMB**, Hyderabad twice in the part of Science field trip.
- Visited **IKP Knowledge Park**, Hyderabad.

BVNV. Bharathi