

GMU - Faculty & Staff Profile Templet



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Dr. Manjunatha T

Assistant Professor in Biotechnology,

Faculty

Faculty of Basic and Applied Sciences

School / Program

School of Applied Sciences /Biotechnology

Faculty Introduction (Five to Six Lines)

Dr. Manjunatha T is a biochemist specializing in phytochemistry, enzymology, and plant-based bioactive compound research. His research focuses on the isolation, purification, and characterization of flavonoids and secondary metabolites from medicinal plants with therapeutic potential. He integrates analytical and computational tools such as HPLC, FTIR, and molecular docking in his studies. Currently, he serves as an Assistant Professor in the Department of Biotechnology, Faculty of Basic and Applied Sciences, GM University, Davangere. His research interests also include natural product formulation, nanotechnology-based applications, and metabolic enhancement in plant cell cultures.

Qualifications

Ph.D. (Natural Products and Phytochemistry)

Davangere University, Davanagere, 2024

M. Sc. (Biochemistry)

Davangere University – Davanagere, Karnataka, 2016

PG.Diploma (Clinical Dietics and Applied Nutrition)

Davangere University – Davanagere, Karnataka, 2022

KSET Mysore University-2021

B SC (PCM)

Davangere University, Davanagere, 2014

Experience

Teaching

- 1 Year in GM University (Currently)
- 3 Years at Davangere University (2016-2019)

Industry

- Nill

Research

- Phytochemistry
- Natural products
- Computational Biology
- Nanotechnology
- Plant Tissue Culture

Training Program Attended

- Successfully completed the Faculty Development Programme (LEAP), GM University, August 29, 2025 – Grade: A.

Research Interest

- Natural products and Phytochemistry
- Plant tissue Culture Techniques
- Neurobiology and Cancer Biology
- Nanotechnology
- Computational Biology

Awards & Achievements

- Best poster presentation at national conference on "Extraction, isolation, Characterization of *Anisomeles indica* leaf flavonoids and its biological activities" in "Impact of Research Development in life sciences (IRDLS-2022)" organized by Department of Biochemistry and Food Technology, held on March 30th and 31st 2022 at Kuvempu University.
- Best Student Poster Award in international Seminar Organized by Davangere University on 22 and 23 August 2016.

Publication / Patents

- Ph.D. Dissertation:
 - Isolation, Purification and Characterization of *Anisomeles indica* Kuntze Flavonoids and Evaluation of Biological Properties".
- National Conference Papers:

Manjunatha, T., and Kumar, V. "Extraction, isolation of *Anisomeles indica* leaf flavonoids and its biological activities". Presented at national Symposium on Emerging trends and challenges in life sciences" organized by Society of Biological Chemists- Davanagere Brach and Department of Biochemistry,

Davanagere University, Davanagere, held on April 26th and 27th 2019 at Davanagere University, Davanagere- 577007, Karnataka, India.

- **Manjunatha, T.**, and Kumar, V. "Extraction, isolation, Characterization of *Anisomeles indica* leaf flavonoids and its biological activities". Presented at national conference on "Impact of Research Development in life sciences(IRDLS-2022)" organized by Department of Biochemistry and Food Technology, held on March 30th and 31st 2022 at Kuvempu University, Shankaraghata, Shivamogga-577007, Karnataka, India.

Manjunatha, T., and Kumar, V. "Extraction, isolation, Characterization of Bioactive compounds present in *Anisomeles indica* leaf extract". Presented at national conference on (Hybrid mode) "Plants and fungi Polyphasic Characterization and Bioprospection" organized by, UGC-SAP-DRS-II, held on March 25th and 26th 2022 at Department of Botany, University of Jammu, Jammu Kashmir, India.

- International Conference Papers: NILL
- National Journal Papers:

Manjunatha, T., Kumar, V., Ruksana, F., Poornima, D.V., Prathap, H. M., Savitharani, M., & Vishala, E. (2023). Evaluation of in vitro Anti-inflammatory and Thrombolytic Activities of *Anisomeles indica* Kuntze. Indian Journal of Pure and Applied Biosciences, 11(2), 61–71.

DOI: <http://dx.doi.org/10.18782/2582-2845.8981>

Vishala, E., Vadlapudi, K., Ruksana, F., Poornima, D.V., Anuradha, C.M., Prathap, H.M., Pratap, G.K., Savitharani, M., & **Manjunatha, T.** (2023). Phytocompounds Profiling in Cell Suspensions Extracts of *Gnidia glauca* (Fresen.) Gilg. Indian Journal of Pure and Applied Biosciences, 11(2), 23–29.

Ruksana, F., Kumar, V., Vishala, E., Poornima, D.V., Anuradha, C.M., Prathap, H.M., Savitharani, M., & **Manjunatha, T.** (2023). Quantification and FTIR Analysis of Precursor Mediated Alkaloid Production in Cell Suspension Culture of *Gnidia glauca* (Fresen.) Gilg. Indian Journal of Pure and Applied Biosciences, 11(3), 9–16.
DOI: <http://dx.doi.org/10.18782/2582-2845.8982>

Savitharani, M., Kumar, V., Ruksana, F., **Manjunatha, T.**, Vishala, E., & Prathap, H. M. (2024). *Design and development of bio-based Anisomeles indica Kuntze leaf essential oil nanoemulsion: Antibacterial, antibiofilm and antiquorum sensing activity against skin pathogens*. Journal of Natural Remedies, 24(12), 2527–2535.

DOI: <https://doi.org/10.18311/jnr/2024/44939>

Prathap, H. M., Vadlapudi, K., **Manjunatha, T.**, Ruksana, F., Vishala, E., & Savitharani, M. (2024). *Determination of Total Flavonoid, Antioxidant, Antidiabetic, and Antibacterial Activities of Flavonoids Present in Memecylon malabaricum (C.B.Clarke) Cogn*. Journal of Plant Science Research, 11(1), 259.

- International Journal Papers:

Manjunatha, T., Vadlapudi, K., Prathap, H. M., Poornima, D. V., Ruksana, F., Vishala, E., Savitharani, M., & Anuradha, C. M. (2023). *Evaluation of in vitro antioxidant potential of Anisomeles indica Kuntze and exploration of its bioactive phytoconstituents*. Biomedicine, **43(3)**.

Vishala, E., Kumar, V., Ruksana, F., Poornima, D.V., Anuradha, C.M., Prathap, H.M., & **Manjunatha, T.** (2023). *Haemolytic saponins product enhancement in Gnidia glauca (Fresen.) Gilg cell suspension cultures*. Biomedicine, **43(1)**, 291–298.

Ruksana, F., Kumar, V., Vishala, E., Poornima, D.V., Anuradha, C.M., Prathap, H.M., Savitharani, M., & **Manjunatha, T.** (2023). *A non-destructive harvesting method to produce biologically active phenolics and flavonoids of Gnidia glauca (Fresen.) Gilg*. Biomedicine, **43(3)**, 843–849.

Prathap, H. M., Kumar, V., **Manjunatha, T.**, Ruksana, F., Vishala, E., & Savitharani, M. (2024). *Evaluation of in vitro antidiabetic, antioxidant, and antibacterial activities of phytochemicals from Memecylon malabaricum Cogn*. Biomedicine, **44(1)**, 46–51.

Savitharani, M., Kumar, V., **Manjunatha, T.**, Ruksana, F., Vishala, E., & Prathap, H. M. (2024). *Biopesticide potential of Anisomeles indica Kuntze leaf essential oil and its nanoemulsion against bacterial blight – Xanthomonas strains*. Journal of Natural Pesticide Research, 8, 100075.

Professional Membership

- Lifetime Member of the Society of Biological Chemists (SBC).

Awards & Recognitions

- Best Faculty -NILL
- Best Research Scholar- NILL

Administrative Responsibilities

- Department Level
 - Erp Co-ordinator, Internal Assessment Co-ordinator, Admission Co-ordinator, FDP Co-ordinator
 - **Board of Studies (BoS) Member** for **B.Sc. Food Science & Technology and M.Sc. Food Technology programs** at GM University.
 - **BoS (Board of Studies) Member** for B.Sc. Biotechnology & Tissue Engineering, and M.Sc. Biotechnology & Tissue Engineering at academic programs at GM University.
- University Level-Nill

Workshops / FDPs / Seminars Attended

- Participated in the DST- stuthi sponsored Mass spectrometry workshop held at Indian Institute of Science, Bangalore. JANUVARY 2 -8th 2023.
- Participated in the IQAC sponsored 5-day Workshop on Research methodology and recent trends in Business held at Davangere University, Shivagangothri, Davanagere, During December 9th to 13th, 2017.
- Participated in National level workshop DST purse sponsored 7-day Workshop on “Techniques in Molecular biology with Special Emphasis on Virology (TMV- 2020)” held at Sri Venkateshwara University, Tirupathi, Andhra Pradesh, From February 10th to 16th, 2020.
- Participated in one day workshop “Plant Genomics and Bioinformatics” organised by Department of Studies in Botany, Davangere University, Shivagangothri, Davangere on 7th March 2020.
- Participated in national level works shop on Molecular Biology Lab Techniques on 22nd and 23rd May, 2025 at GMIT organized by Department of

Biotechnology in association with Himedia Laboratories Pvt Ltd., India.

- Participated in AICTE Sponsored VAANI Workshop on “Roots to Recipes: Tech-Driven Agri Practices” on 20th August 2025. Organized by Department of Biotechnology, GM University.

Workshops / FDPs / Seminars Organized

- Nill

Projects Guided

- **UG Projects**
- Extraction and Formulation of Natural Hair Dye from *Anisomeles indica* (GM University, Guide)
- Production of Ecofriendly Biodetergent from Alkaline Soil (GM University, Guide)
- Formulation and Evaluation of Herbal Extract Containing (Guide) *Anisomeles indica* Extract and Turmeric Extract (GM University, Guide)
- Isolation and Characterization of Methanogen Bacteria (GM University, Co-guide)
- **PG Projects**
- Evaluation of Biological Activities and Synthesis of Zinc Nanoparticle from *Anisomeles indica* Kuntze Leaf Extract (Davangere University, Guide)

Funded Projects / Grants Received

- Development of a Novel Chitosan-Based Mosquito-Repellent Skin Patch Embedded with Silver Nanoparticles, Dr Manjunatha T. Principal Investigator, Department of Biotechnology, GM University Seed Grant, Amount Sanctioned Rs. 10,000/-, AY - 2024–2025

Any Other Contributions