



PRAJWALA B

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Career Objective

To contribute my academic expertise, teaching skills, and research capabilities to support the institution's vision and mission while fostering a positive learning environment for students. Aiming to leverage a strong doctoral background in Molecular Biology and Life Sciences, extensive teaching experience in Applied Zoology, and hands-on laboratory expertise in a stimulating learning environment and contribute significantly to institutional research and academic excellence.

Academic Profile

❖ **Ph.D. in Life Science (Molecular Biology): 2017 – 2021**

- **Institution:** JSS Academy of Higher Education & Research, Mysuru
- **Research Topic:** *Studies on inhibitory potentials of Tinospora cordifolia plant extract against pathogenic bacteria*
- **Guide :** **Dr. Kanthesh BM**, Associate Professor, Division of Molecular Biology, Department of Water and Health, JSS Academy of Higher Education & Research, Mysuru

❖ **M.Sc. in Applied Zoology: 2016 (Overall: 76.75%)**

- **Institution:** Maharani's Science College for Women, University of Mysuru, Karnataka

❖ **B.Sc. in CBZ (Chemistry, Botany, Zoology): 2014**

- **Institution:** JSS Women's College, Chamarajanagara, Karnataka

Teaching & Examination Experience

❖ **Guest Faculty (3 Years | June 2023 – June 2026)**

- **Institution:** Department of Zoology, Manasagangotri, University of Mysuru, Mysuru
- **Responsibilities:** Delivered advanced lectures, guided student practicals, and conceptualised learning frameworks for undergraduate/postgraduate students.

❖ **Internal Examiner and External Examiner**

- **Institution:** DOS in Zoology, Manasagangotri, University of Mysuru
- **Responsibilities:** Conducted and evaluated university-level practical examinations.

Research & Publications

- Studies on inhibitory potentials of *tinoporacordifolia* plant extract against pathogenic bacteria in 2021
- Berberine and its pharmacological potential In 2020
- Zingiber officinale: Anti-Microbial, Anti-Diabetic and Anti-Inflammatory Agent in 2019
- In vitro anti-bacterial activity of *Tinospora cordifolia* leaf extract and its phytochemical screening in 2019
- Guduchi: Its Medicinal Properties in 2019
- **Book Chapters:** 1. Isolation and Characterisation of Berberine from *Tinospora cordifolia* Leaf extract and Silico Analysis of Fts-Z Binding
- **2 Review Papers Under Communication**
- **Poster Presentations:** Presented 5 posters
- **Workshops Attended:** 4 hands-on training workshops attended
- **National Workshop & Hands-on Training:** "Teaching and Learning Biology with *Drosophila*"
- **Conference:** "Human Genetic Disease and Diagnosis" organized by the DOS in Genetics and Genomics
- **Seminar:**
- "Experimental Research on Animal Models"
- "Molecular Diagnosis of Cancer" organised by the DOS in Genetics and Genomics
- **1-Week Workshop:** "Recent Advances in Research Using Animal Models" organized by the DOS in Zoology, MGM, Mysuru

Technical & Laboratory Skills

- **Molecular Biology Techniques:** Bacterial culturing, extraction of bioactive plant compounds, and assaying inhibitory potentials (*Tinospora cordifolia*) against pathogenic bacteria.
- **Computer & Software Proficiency:** MS Office Suite (Word, Excel, PowerPoint) for compiling scientific data, research formatting, and academic presentations.

Professional Competence

- **Research Excellence:** Demonstrated expertise in isolating bioactive compounds, molecular evaluation of plant-microbe interactions, and scholarly writing (as evidenced by multiple published papers and book chapters).
- **Pedagogical Adaptability:** Proven ability to teach diverse biological subjects, bridging theoretical zoology and modern molecular concepts for students.
- **Collaborative Work Ethic:** Excellent coordination within interdisciplinary teams, possessing dedication, sincerity, punctuality, and a strong work ethic.
- **Continuous Learning:** Highly receptive to constructive feedback and eager to take on new institutional responsibilities with initiative.

Professional Reference

- **Dr. Kanthesh BM**

Associate Professor, Division of Molecular Biology

Department of Water and Health

JSS Academy of Higher Education & Research, Mysuru