



# Dr. Medha Bhat

**Senior Scientist:**

**Kadamba Advanced Green Technologies**

*Botany, Phytochemistry, Plant Biotechnology,  
Natural Product Research*

## Educational & Academic Background

- **Doctor of Philosophy (Ph.D.) in Botany**

*"In vitro evaluation of anticancer activity of andrographolides isolated from selected Andrographis species"*

- **M.Sc. in Botany: Plant Tissue Culture & Biotechnology**
- **B.Sc. in Botany, Biotechnology, Chemistry**
- Qualified the Karnataka State Eligibility Test (K-SET), demonstrating academic competence for higher education and research.

## Research Experience & Scientific Contributions

Multidisciplinary research experience in phytochemistry, plant biotechnology, and bioactive compound analysis.

- Isolation and characterization of **bioactive phytochemicals**
- **In vitro anticancer activity** evaluation of plant-derived compounds
- **Natural product pharmacology** and therapeutic potential of medicinal plants
- Nutritional and biochemical profiling of plant species

## Publications

- Contributed to **8 Peer-reviewed research scientific publications** on applied microbiology and biotechnology
- Book chapters in international publications about Springer Reference Series in Phytochemistry

## Notable Research Contributions

Demonstrates strong alignment with **drug discovery, phytopharmaceutical development, and green bioactive research.**

- Isolation and evaluation of **andrographolides and neo-andrographolide** with demonstrated cytotoxic and immunomodulatory activity
- **African Mangosteen (Garcinia livingstonei)** involving chemical composition and fatty acid profiling
- Phytochemical and biotechnological production of **secondary metabolites from plant systems**

## Academic & Professional Experience

- **Senior Scientist**, actively engaged in research and scientific development
- **Teaching Assistant at:**
  - JSS College Dharwad
  - Karnataka College Dharwad
- Assisted in **editing scientific books** under Springer's Reference Series in Phytochemistry
- Experienced in **scientific writing, peer-reviewed publications, and academic collaboration**

## Publications & Scholarly Work

Publications reflect strong scientific rigor and contribution to phytochemical and biomedical research domains.

- Research papers on anticancer phytochemicals and plant extracts
- Review article on *Polygonum multiflorum* and its biotechnological relevance
- Book chapters on **bioactive compounds in pteridophytes and medicinal plants**

## Innovation Excellence

- **Expertise in Natural Product Research & Safety Evaluation**  
In-depth understanding of plant-derived bioactives, toxicity, and therapeutic evaluation.
- **Preclinical Research & In Vitro Study Experience**  
Strong background in laboratory-based experimental design and ethical research practices.
- **Phytopharmaceutical & Translational Research Insight**  
Experience in bridging traditional plant knowledge with modern biomedical applications.
- **Scientific Documentation & Publication Ethics**  
Skilled in peer-reviewed research writing, ensuring compliance with ethical publication standards.