

L.A.D. & Smt. R.P. College for Women, Nagpur

Faculty Profile

- **Basic Information**

- **Name:** Dr. Ashwini Balki (Mowade)

- **Designation:** Assistant Professor

- **Department:** Botany

- **Area of Specialization:** Plant Biotechnology, Environmental Biology,
Phytochemistry, Genetics, Plant tissue culture

- **VIDWAN ID:** 700143

- **Google Scholar ID:** nQuVKl8AAAAJ&hl=en

- ❖ **Educational Qualifications:**

- **Ph.D. Botany**

- **M.Sc. Botany**

- ❖ **Teaching Experience:**

- **Total Teaching Experience:** 18 Years

- ❖ **Research Experience**

- **Total Research Experience:** 16

- **Research Guidance:** Mentorship of undergraduate B.Sc. Botany students

Areas of Research Interest:

- Phytoremediation and environmental science
- Sustainable floriculture using activated sludge
- Plant tissue culture and micropropagation
- Lipid degradation and waste management

- ❖ **Research Publications**



(A) Selected Research Papers in National/International Journals

- **"Phytochemical Investigation of Four Latex Containing Plants of Bhiwapur Region of Nagpur District"** in *International Journal of Researches in Biosciences, Agriculture and Technology*, Issue XI, Vol III, Sept 2023: 10-12.
- **"Riboflavin Production from Colocasia Waste Leaves"** in *International Journal of Researches in Biosciences, Agriculture and Technology*, Vol 1, Jan 2022: 1021-1030.
- **"Red Soil as a Source for Polyhydroxybutarate Producing Bacteria"** in *Journal of Critical Reviews*, Vol 7, 2020: 1021-1030.
- **"Wine Production from Waste Overripe Bananas"** in *International Journal of Research and Analytical Research*, Vol 6, 2019: 527-535.
- **"In Vitro Shoot Propagation and Callus Induction of Dendrocalamus stocksii and Bambusa polymorpha through Nodal Explant"** in *International Journal of Advance and Innovative Research*, Vol 6, 2019: 94-99.
- **"Allergenic Pollen Grains in the Air of District Firozabad and Their Impact on Human Health"** in *International Journal of Research and Analytical Research*, Vol 4, 2017: 106-110.
- **"Isolation, Characterization and Validation of Lipid Degradation by Bacteria from Waste Engine Oil Contaminated Soil"** in *International Journal of Researches in Biosciences, Agriculture and Technology*, Vol 1, 2018: 49-56.

(B) Books / Book Chapters

Authored:

- Botany for B.Sc students. ISBN no. 9789373591834
- Environmental Studies. ISBN no. 9789384855451
- **Book Chapter:** "Bioinspired zinc-based nanomaterials: Synthesis, biomedical, environmental and agricultural applications".

❖ Research Projects

Minor/ Major Research Projects:

S.N.	Title	Funding Agency	Year	Status
1	Eco-Blooms: Sustainable Floriculture Using Activated Sludge	RDC RTM Nagpur University	2025-27	Ongoing
2	Micropropagation of socio-economic plants.	Forest Dept, Govt. of Maharashtra	2018	Completed

❖ **Orientation / Refresher Courses / FDPs Attended.**

- One Orientation – MMTTC
- Four FDP

❖ **Papers Presented in Conferences / Seminars -2**

❖ **Administrative Responsibilities & Achievements**

- **Head, Department of Botany.**
- **In-charge:** Green Thumb Initiative (WES project in collaboration with Biotechnology).
- **Coordinator:** National Science Day Celebration at LAD College (2026).

❖ **Membership of Professional Bodies**

- **Member of Indian Botanical Society**

❖ **Extension Activities / Community Engagement**

- **In-charge:** Green Thumb Initiative (WES project in collaboration with Biotechnology Department).
- **Student Mentorship:** Guidance for B.Sc. Botany students.
- **Community Engagement:** Ethnobotanical surveys for women's health in Gondia District.
- **Sustainability:** Principal Investigator for sustainable floriculture research.

❖ **E-Content / MOOCs / ICT Use**

- **Google Classroom:** Management of LMS for undergraduate Botany students.

- **E-Content:** Preparation of detailed educational notes on Genetics and Plant Breeding.