

# Dr. Dnyanada H. Limaye, Ph.D.

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## Present position

- Assistant Professor

## Contact Details (Mention e-mail) – fergusson.edu or despune.org



020-67655456



[dnyanada.limaye@fergusson.edu](mailto:dnyanada.limaye@fergusson.edu)



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## Work Experience

- Teaching: 3 years
- Research/Industrial: 7 years

## Personal Profile

I'm MSc Biotechnology from SPPU and Ph.D. from University of Mumbai in collaboration with NCIM, NCL, Pune. My interests lie in Plant Tissue Culture, Plant Biotechnology and Cell and Molecular Biology.

## Course(s) Taught (Only Titles)

1. Plant Development
2. Plant Tissue Culture
3. Plant Biotechnology
4. Genetics
5. Biotechnological Skills in Agriculture Industry

## Field of Specialization/Areas of Interests

- Plant Development
- Plant Tissue Culture
- Plant Biotechnology

## Education

- Ph.D. –from 2016 to 2021

**Title of the Thesis: Effect of metal and metal oxide nanomaterials at cellular and genomic level of multi drug resistant bacteria.**

**Name of University / Institution: University of Mumbai in Collaboration with NCIM, NCL Pune.**

**Year of Award: 2021**

- **Master of Science/Arts-Biotechnology:** year 2012  
SPPU.
- **Bachelor of Science- (subject name): Biotechnology:** year 2010  
SPPU.

### **Fellowship/Awards/ Certifications/Achievements/Recognitions**

1. GATE BT 2013
2. GATE BT 2015

### **Member of College Committees/ Professional Bodies and Others**

| College Level                             | Professional Bodies | Others |
|-------------------------------------------|---------------------|--------|
| ● BoS- Biotechnology<br>(Internal member) |                     |        |

### **Employment History**

Example:

- **Organization :** UGC-Major research project at Department of biotechnology Modern college Ganeshkhind, Pune. Titled, “**Exploration of *Helicteres isora* L. as a source of diosgenin and enhancement of diosgenin production using plant tissue culture and genetic engineering approaches**”.

**Role : Research Student**  
**Duration : 1.5 Years**

## Research Projects

| Title of the Project                                                                               | Name of Funding Agency                                 | Amount (Rs) | Duration (Year) (From To) | Type (Minor/Major) | Outcome                                                                          |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------|---------------------------|--------------------|----------------------------------------------------------------------------------|
| In vitro propagation of medicinal plants and their phytochemical screening for bioactive compounds | Seed Money by DES Fergusson College (Autonomous) Pune. | 1,00,000    | 6 months                  |                    | Standardization of Protocol for <i>in vitro</i> propagation of medicinal plants. |

## Research Publications in National and International Journals

- Khare T., **Desai D.**, Kumar V. (2012). Effect of MgCl<sub>2</sub> stress on germination, plant growth, chlorophyll content and lipid peroxidation in Sorghum cultivars. J. stress physiol. & biochem, vol 8 pp. 169-178.
- **Desai D.**, Khare T., Kumar V. (2012). Sulphate and chloride salinity induced effects on physiological and biochemical parameter of Sorghum. Int. J. biochem. & biotech. Vol-2, issue 10, pp.34-38.
- Kumar V., **Desai D.**, Shriram V. (2014). Hairy Root Induction in *Helicteres isora* L. and Production of Diosgenin in Hairy Roots. Natural Pro. & bio. Vol-4, issue-2, pp. 107-112.
- Mehetre, G. T., Vinodh, J. S., Burkul, B. B., **Desai, D.**, Santhakumari, B., Dharne, M. S., & Dastager, S. G. (2019). Bioactivities and molecular networking-based elucidation of metabolites of potent actinobacterial strains isolated from the Unkeshwar geothermal springs in India. RSC advances. Vol-9, issue-17, pp. 9850-9859.
- **Desai, D. G.**, Swarali, H., Navale, G. R., Prabhune, A., Late, D. J., Dharne, M. S., & Walke, P. S. (2020). Inhibition of Quorum Sensing, Motility and Biofilm Formation of *Pseudomonas aeruginosa* by Copper Oxide Nanostructures. Journal of Cluster Science, 1-11.
- **Desai, D. G.**, Navale, G. R., Late, D. J., Dharne, M. S., & Walke, P. S. (2023). Size does matter: antibacterial activities and cytotoxic evaluation of polymorphic CuO nanostructures. *Journal of Materials Science*, 58(6), 2782-2800.

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| <b>Participation in Conferences/Seminars/Symposia/Workshop:</b> |
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1. National Seminar on "Implementation of Multi and Trans-Disciplinary Education Through NEP 2020" (2023)
2. Hands on workshop on Operation and Maintenance of Opto-Analytical Laboratory Equipments (2023)
3. Effective Teaching Learning Workshop by IISER-Pune (2024)
4. Teachers Training Program on 'Students Counselling Psychology' (2024)
5. NEP 2020 Orientation & Sensitization Programme organised by Malaviya Mission Centre of the Astronomy Centre for Educators of IUCAA (2024)
6. National Workshop on Statistical Data Analysis using SPSS (2025)



