

Dr. Neelu Joshi

Ph. D. Biotechnology



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Education

S. No.	Degree	Institute	Board/University	Year	Percentage
1	B . S c (Biotechnology)	M.B.Govt.P.G. College Haldwani	Kumaun University Nainital	2007	76.77%
2	M.Sc. (Biotechnology)	Devsthali Vidyapeeth Rudrapur, Lalpur	Kumaun University Nainital	2010	75.65%
3	P h . D (Biotechnology)	Department of Biotechnology J. C. Bose Campus, Bhimtal	Kumaun University Nainital	2016	NA

Other Achievements

- Assisted in 2nd State Level Science and Technology Youth Festival on Uttarakhand-A Modern State held at Department of Biotechnology, Kumaun University, Nainital from 24th-28th February, 2013 sponsored by Uttarakhand Council of Science & Technology, Dehradun.
- Participated in an activity during National Science Day, 28th Feb, 2012 organized by Department of Biotechnology, Kumaun University, Bhimtal Campus & co-sponsored by DBT and UCOST.

Publications:

Abstracts and Poster Presentation

- Joshi N.** and Nailwal T. K. (2023). Effect of growth regulators on germination percentage of *Oroxylum indicum* . Abstract: National Conference on Green Growth Strategies for Sustaining Himalayan Societies under changing climate: Policy, pathway and Tools (**Poster Presentation**).

- **Joshi N.** and Nailwal T. K. (2012). Micropropagation of *Oroxylum indicum*: A wonderful gift of nature. Proceedings, 7th Uttarakhand State Science and Technology Congress, 67.
- **Joshi N.**, Brijwal L., and Nailwal T. K. (2013). Study of the antioxidant proteins of *Ipomea batata* through computational tool. Proceedings, 8th Uttarakhand State Science and Technology Congress, 97.
- **Joshi N.**, Upadhyaya A., Gour J.K., Anwar M.S., Danu K., Nigam A.K., Singh M.K., (2024) Temperature-Dependent Growth Dynamics and Secondary Metabolite Accumulation in *Mucuna pruriens*: Investigating the Thermogenic Response. Abstract: National Conference on Innovation in Biotechnology and Bioengineering.

Oral Presentation

- Participated and contributed in the “National Conference on Innovation in Biotechnology and Bioengineering” 27 April **2024**, presented paper oral entitled “Temperature-Dependent Growth Dynamics and Secondary Metabolite Accumulation in *Mucuna pruriens*: Investigating the Thermogenic Response” ranked **first**.

Chapters In Manuals/Books

- **Upadhyaya A., Joshi N., (2025).** Crispr/Cas System In Agriculture. DOI: **10.25215/9389476941.11.** ISBN: **978-93-89476-94-1**
- **Joshi N., Upadhyaya A., Bhatt D., Nigam A.K., Anwar M.S., Singh M.K., Gour J.K., (2025) .** Microbial Nanotechnology in Cancer Treatment. Biomedical Applications of Microbial Nanomaterials. **Springer Nature.**
- **Nigam A.K., Mishra A., Sinha B.K., Gour J.K., Verma N., Joshi N., Singh M.K., (2025).** Potential of microbial nanoparticles in Combating Against Infectious Agents. **Springer Nature.**
- **Goyal A.K., Usha T., Kalita M., Kamala A., Joshi N., Middha S.K.** Pots and its Potential role in probiotics from fermented Soyabean foods to combat diseases. **Elsevier (In Press).**

Research papers:

- **Joshi N., Shukla A., Nailwal T. K. (2014).** Taxonomic and phytomedicinal properties of *O. indicum* (L.) Vent.: A wonderful gift of nature. *Journal of Medicinal Plant Research.* 8(38): 1148-1155.
- Singh M.K., Joshi C., **Joshi N.**, Sharma R. *et al.*, (2014). Scrutinizing the antioxidant potential of *Prunella vulgaris* L. : A medicinal plant from Central Himalayan region. *International Journal of Fundamental and Applied Science.*4.
- Talambedu U., Sushen P., Goyal A. K., Shanmugarajan D., Kumar H. P. P., Singh M.K., **Joshi N.**, Basistha B.C., Murthy K.R.S., Selvaraj S.K., Middha S.K.,(2017). Molecular Simulation-based Combinatorial Modeling and Antioxidant Activities of Zingiberaceae Family Rhizomes. *Pharmacognosy Magazine.* 13(51): 715-722. doi: 10.4103/pm.pm_82_17. Epub 2017 Oct 11. PMID: 29142438; PMCID: PMC5669121.

- **Joshi N**, Nailwal TK , Dutta S. Efficient protocol for micropropagation of medicinal forest tree Shyonak (*Oroxylum indicum*) by silver nitrate promoted high frequency shoot proliferation. *Plant Science Today*. **2024**; 11 (2): 133–141. <https://doi.org/10.14719/pst.2858>
- Usha T., Hemavathi K.N., Goyal A.K., Abhinand C.S., Dhivya S., Cholarajan A., **Joshi N.**, Babu D., Middha S.K., Combating Covid-19 using emodin derivatives found in medicinal herbs. *Kuwait Journal of Science*. **2024**; 51 (4). <https://doi.org/10.1016/j.kjs.2024.100265>
- Joshi A., Polipalli S.K., Kumar S., Uppal K, Kapoor S., Jeena L.M., Joshi N., Mitochondrial D-Loop and HBB Gene Profiling in Antenatal Hemoglobinopathy Carriers. *Indian Journal of Genetics and Molecular Research*. **2026**; 15 (1).
DOI: 10.21088/ijgmr.2319.4782.15126.2

Experience:

- **Teaching experience** to UG classes at Biotechnology Department of **M.B.Govt. P.G. College**, Haldwani (2010 – 2012).
- **Two years teaching experience in Biotechnology Department** at Pal College of Technology and Management, Haldwani (August 2015 – June 2017).
- **Two and half year teaching experience as TGT Science** at Dikshant International School (2019- 2021).
- **Assistant Preofessor in Department of Biotechnology, M.B.G.P.G.C.** Haldwani (2021- Till date).

Exposure:

- Six days “Hands on training on Enzyme Immunoassay and Related Techniques” at Institute of Biotechnology, GB Pant Univ. of Agri & Tech Patwadangar, Nainital.
- Forty five days training as dissertation on “Isolation of Salmonella from bakery products and molecular characterization of Salmonella escanaba isolates by ERIC PCR” from GB Pant Univ. of Agri & Tech, Pantnagar.
- Two days workshop on “Biotechnology education” organized by Dolphin (P.G.) Institute of Biomedical and Natural sciences.
- Attended the Regional Workshop and Brain Storming Session on Water Quality Management and Riverbank Filtration organized by DST, UCOST, Uttarakhand Jal Sansthan and DAV college, Dehradun at the Department of Biotechnology, Kumaun University, Bhimtal Campus on 25th Feb, 2012.
- Assisted in the Theoretical and Practical Course on Hands on Training on Plant Tissue Culture & Molecular Biology sponsored by Uttarakhand State Biotechnology at the Department of Biotechnology, Kumaun University, Bhimtal Campus from 20th – 29th April, 2012.
- Assisted in the Theoretical and Practical Course on Hands on Training Programme on Modern Techniques in Biotechnology (Microbial Biotechnology) sponsored by Uttarakhand State Biotechnology at the Department of Biotechnology, Kumaun University, Bhimtal Campus from 2nd-11th January, 2013.

Attended DBT Sponsored National Training on Bioinformatics for Genome and Proteome Analysis organized by Department of Biotechnology, Kumaun University, Bhimtal Campus on 7th- 8th Mar, 2014.