Dr. Pushpa Lohani

DESIGNATION:	Associate Professor
QUALIFICATION:	Ph.D.
SPECIALISATION:	Molecular Biology
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Research Areas/ Areas of Interest

- Transcriptional regulation during drought tolerance and nanoparticle mediated drought recovery in plants

Teaching Experience and Courses Taught

Teaching Experience: 16 years

Courses Taught are as follows

- Fundamentals of Molecular Biology
- Plant Molecular Biology
- Epigenetics & Gene Regulations
- Regulations in Biotechnology
- Cell Biology

Research Projects

- Investigating the role of Dof transcription factor in accumulation of seed storage proteins and nitrogen metabolism during grain development in finger millet
- Cloning and functional validation of drought responsive genes from Eleucine coracana

- Molecular Cloning and functional validation of mdar gene of Eleucine coracana for oxidative stress tolerance

- Full Length cloning and in-silico analysis of Myb gene from Eleucine coracana for drought stress tolerance

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Publications

1. Arti Bartwal, **Pushpa Lohani,** R. Mall and Sandeep Arora (2013) Role of secondary metabolites and Brassinosteroids in plant defence against environmental stresses. Journal of Plant Growth Regulation 32(1), 216-232
2. Priya Jadav, Prafull Salvi, Megha Bhatt and **Pushpa Lohani (2018)** Expression of EcMyb transcription factor gene under different abiotic stress conditions in Eleusine coracana. International Jouranal of Agriculture, Environment and Biotechnology 11(5): 799-806
3. Akash Sinha, Megha Bhatt and **Pushpa Lohani (2020)** Identification of superior allele for drought responsive Myb gene in germplasm of Eleusinecoracana collected from different regions of Uttarakhand. Accepted for publication in Research Journal of Biotechnology
4. Sikha Snehal and **Pushpa Lohani (2018)** Silica nanoparticles: Its green synthesis and importance in agriculture Journal of Pharmacognosy and Phytochemistry 7(5): 3383-3393
5. Sarita Kumari, **Pushpa Lohani** and Sumeet Kumar Singh (2020) Insilco gene characterisation and Promoter analysis of drought inducible myb gene from Eleucine coracana. Journal of Pharmacognosy and Phytochemistry, SP6: 123-127.
6. Devyani Jogran, Jeetendra Singh Bohra and **Pushpa Lohani (2020)** CRISPER-CAS System and Its Applications. Bulletin of Environment, Pharmacology and Life Sciences, Vol 9[9]: 172-179
7. N.K. Singh, **Pushpa Lohani** and J.P. Jaiswal (2008) Determination of Transgene flow and contamination in wild relatives and other non target crops. Biosafety issues related to practicing agriculture biotechnology 48-56
8. Dinesh Yadav, Nidhi Gupta, Anil Kumar, **Pushpa Lohani,** Munna Singh and U.S. Singh (2009) Role of plant transcription factor-DOF in enhancing nitrogen use efficiency: molecular means for promoting organic farming Ecosystem Diversity and Carbon Sequestration: Climate Change Challenges and A Way Out for Ushering in Sustainable Future Daya Pub, 2009, xxiv, 386 p
9. Masochon Raingam, Megha Bhatt, Akash Sinha and **Pushpa Lohani (2017)** Forward and Reverse Genetics in Plant Breading. In: Advanced Molecular Plant Breading: Meeting the challenge of Food security: D. N. Bharadwaj (Ed) pp 49-71 Apple Academic Press, USA.
10. Shradha Shrama and **Pushpa Lohani (2018)** In Silico Plant Growth Metabolites. In: In Silico Approaches For Sustainable Agriculture: Devendra K. Choudhary,

Manoj Kumar, Ram Prasad, and Vivek Kumar (Eds) (In Press) Springer Nature Singapore Pvt. Ltd., Singapore.

11. Prafull Salvi, Sandeep Arora, **Pushpa Lohani (2012)** Expression of MYB Transcription Factor in Eleusine coracana: towards making of drought tolerant plants LAP Lambert Academic Publishing AG & Co KG ISBN 9783848482917