

Curriculum vitae

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Academic Credentials

- ❖ M.SC (Botany) from Baba Ghulam Shah Badshah University Rajouri
- ❖ Joint CSIR-UGC-NET/JRF
- ❖ Joint CSIR-UGC NET
- ❖ GATE in Life Sciences
- ❖ B.SC from University of Jammu
- ❖ Senior Secondary School Examination through JKBOSE
- ❖ Secondary School Examination through JKBOSE.

List of Publication

Articles

1. **Chowdhary, A.A.**, Chouhan, R., Mishra, S., Bagal, D., Rathore, S., Guleria, A., Singh, D., Sharma, G., Gandhi, S.G. and Srivastava, V., 2024. H₂S and NO Mitigate Cadmium and Lead Toxicity in *Solanum lycopersicum* L. *Russian Journal of Plant Physiology*, 71(6), p.193.
2. Bagal, D., **Chowdhary, A.A.**, Mehrotra, S., Mishra, S., Rathore, S. and Srivastava, V., 2023. Metabolic engineering in hairy roots: An outlook on production of plant secondary metabolites. *Plant Physiology and Biochemistry*, p.107847.

3. Rai, G.K., Mishra, S., Chouhan, R., Mushtaq, M., **Chowdhary, A.A.**, Rai, P.K., Kumar, R.R., Kumar, P., Perez-Alfocea, F., Colla, G. and Cardarelli, M., 2023. Plant salinity stress, sensing, and its mitigation through WRKY. *Frontiers in Plant Science*, 14.
4. Mishra, S., Bagal, D., **Chowdhary, A.A.**, Mehrotra, S., Rai, G.K., Gandhi, S.G., Bhau, B.S., El-Demerdash, A. and Srivastava, V., 2023. Signal crosstalk of Phyto melatonin during salinity stress tolerance in plants. *Plant Growth Regulation*, pp.1-17.
5. Mishra, S., **Chowdhary, A.A.**, Bhau, B.S. and Srivastava, V., 2022. Hydrogen sulphide-mediated alleviation and its interplay with other signalling molecules during temperature stress. *Plant Biology*, 24(4), pp.569-575.
6. Srivastava, V., **Chowdhary, A.A.**, Verma, P.K., Mehrotra, S. and Mishra, S., 2022. Hydrogen sulfide-mediated mitigation and its integrated signaling crosstalk during salinity stress. *Physiologia Plantarum*, 174(1), p.e13633.

Book chapters

1. **Chowdhary, A.A.**, Mishra, S., Mehrotra, S., Upadhyay, S.K., Bagal, D. and Srivastava, V., 2023. Plant transcription factors: an overview of their role in plant life. *Plant Transcription Factors*, pp.3-20.
2. Srivastava, V., Mishra, S., **Chowdhary, A.A.**, Lhamo, S. and Mehrotra, S., 2021. The γ -aminobutyric acid (GABA) towards abiotic stress tolerance. *Compatible solutes engineering for crop plants facing climate change*, pp.171-187
3. Srivastava, V., **Chowdhary, A.A.**, Lhamo, S., Mishra, S. and Mehrotra, S., 2021. Therapeutic Lead Secondary Metabolites Production Using Plant In Vitro Cultures. *Bioprospecting of Plant Biodiversity for Industrial Molecules*, pp.211-229.
4. Srivastava, V., Mishra, S., Lhamo, S., **Chowdhary, A.A.** and Mehrotra, S., 2021. Involvement of Various Biotechnological Contrivances for Tropane Alkaloid Biosynthesis and Applications of Tropane Alkaloid-Bearing In Vitro Cultures. *Tropane Alkaloids: Pathways, Potential and Biotechnological Applications*, pp.69-88.
5. Mishra, S., Lhamo, S., **Chowdhary, A.A.**, Mehrotra, S. and Srivastava, V., 2021. The $\text{Na}^+/\text{Ca}^{2+}$ exchanger-like proteins from plants: an overview. *Calcium Transport Elements in Plants*, pp.143-155.

6. Mishra, S., Bhardwaj, M., Mehrotra, S., **Chowdhary, A.A.** and Srivastava, V., 2020. The contribution of phytohormones in plant thermotolerance. *Heat stress tolerance in plants: physiological, molecular and genetic perspectives*, pp.213-238.

7. Mishra, S., **Chowdhary, A.A.**, Mehrotra, S. and Srivastava, V., 2019. Function of plant heat shock transcription factors in abiotic stress. *Molecular approaches in plant biology and environmental challenges*, pp.113-126.