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**Important Research Publications**

- Sharma A, Sharma K, Thakur M and Kumar S. 2023. Protein content enhanced in soybean under aonla-based agroforestry system. *Agroforestry Systems* **97**:261-272. doi: [10.1007/s10457-023-00804-8](https://doi.org/10.1007/s10457-023-00804-8)
- Thakur M, Praveen S, Divte PR, Mitra R, Kumar M, Gupta CK, Usha K, Bansal R, Roy S, Anand A and Singh B. 2022. Metal tolerance in plants: Molecular and physicochemical interface determines the "not so heavy effect" of the heavy metals. *Chemosphere* **287**(Part 1):131957. doi: [10.1016/j.chemosphere.2021.131957](https://doi.org/10.1016/j.chemosphere.2021.131957)
- Thakur M, Tiwari S, Kataria S and Anand A. 2022. Recent advances in seed priming strategies for enhancing planting value of vegetable seeds. *Scientia Horticulturae* **305**:111355. doi: [10.1016/j.scienta.2022.111355](https://doi.org/10.1016/j.scienta.2022.111355)
- Sharma N, Thakur M, Suryakumar P, Mukherjee P, Raza A, Prakash CS and Anand A. 2022. 'Breathing out' under heat stress - Respiratory control of crop yield under high temperature. *Agronomy* **12**:806. doi: [10.3390/agronomy12040806](https://doi.org/10.3390/agronomy12040806)
- Kumar S, Thakur M, Mitra R, Basu S and Anand A. 2021. Sugar metabolism during pre- and post-fertilization events in plants under high temperature stress. *Plant Cell Reports* **41**:655-673. doi: [10.1007/s00299-021-02795-1](https://doi.org/10.1007/s00299-021-02795-1)
- Thakur M, Sharma P, Anand A, Pandita VK, Bhatia A and Pushkar S. 2020. Raffinose and hexose sugar content during germination are related to infrared thermal fingerprints of primed onion (*Allium cepa* L.) seeds. *Frontiers in Plant Science* **11**:579037. doi: [10.3389/fpls.2020.579037](https://doi.org/10.3389/fpls.2020.579037)
- Thakur M and Anand A. 2020. Hydrogen sulfide-An emerging signalling molecule regulating drought stress response in plants. *Physiologia Plantarum* **172**(2):1227-1243. doi: [10.1111/ppl.13432](https://doi.org/10.1111/ppl.13432)
- Thakur M, Sharma PK, Asrani RK, Patil RD and Gautam H. 2020. Traditional therapeutic uses of some important medicinal and aromatic plants in the tribal belt of

the cold desert area of Lahaul valley of Himachal Pradesh, India. *Indian Journal of Traditional Knowledge* **19**(4):761-775.

- Anand A, Kumari A, Thakur M and Koul A. 2019. Hydrogen peroxide signaling integrates with phytohormones during the germination of magnetoprimed tomato seeds. *Scientific Reports* **9**(1): 8814. doi: [10.1038/s41598-019-45102-5](https://doi.org/10.1038/s41598-019-45102-5)
- Thakur M, Asrani RK, Thakur S, Sharma PK, Patil RD, Lal B and Om Parkash. 2016. Observations on traditional usage of ethnomedicinal plants in humans and animals of Kangra and Chamba districts of Himachal Pradesh in North-Western Himalaya, India. *Journal of Ethnopharmacology* **191**:280-300. doi: [10.1016/j.jep.2016.06.033](https://doi.org/10.1016/j.jep.2016.06.033)

## **Awards and Recognitions**

- Honorable Jury Mention Certificate in Young Scientist Category by EET, CRS, India in 2019.
- Travel grant of £800 for participation in 20<sup>th</sup> Congress of the World Veterinary Poultry Association at Edinburgh, Scotland (United Kingdom) by Houghton Trust and British Poultry Science (United Kingdom) in 2017.
- Appreciation letter for contribution as a reviewer by Chief Editor, Proceedings of the National Academy of Sciences India Section-B Biological Sciences (Springer) in 2017.
- Qualified National Eligibility Test in the subject Plant Biochemistry by ICAR, New Delhi in 2014.
- Second prize (North zone) in Student Research Convention by Association of Indian Universities, New Delhi in 2013.
- INSPIRE Fellowship by Department of Science & Technology, New Delhi in 2011.
- University First Rank Holder Certificate in M.Sc. (Biochemistry) by CSKHPKV, Palampur (H.P.) in 2011.