

Dr. Sandeep Arora

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QUALIFICATION:	Ph.D.
SPECIALISATION:	Oxidative Stress Biology
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Research Areas/ Areas of Interest

- Nano- Biotechnology

Research Projects

- DBT sponsored PMS project entitled “Cloning and functional validation of drought responsive genes from *E. coracana*”

Publications

1. Saurabh C. S., Salvi, P., Kamble, N.U., Joshi, P.K., Majee, M. and **Arora, S. (2020)** Ectopic overexpression of cytosolic ascorbate peroxidase gene (Apx1) improves salinity stress tolerance in *Brassica juncea* by strengthening antioxidative defense mechanism. *Acta Physiol Plant* 42, 45.
2. Pande A, Saxena S C, Thapliyal M, Guru S K, Kumar A and **Arora Sandeep (2018)** Role of AP2/EREBP Transcription Factor Family in Environmental Stress Tolerance. *Cell Cellular Life Sc. J.* 3(1): 1-9
3. Avashthi, H., Pathak, R.K., Pandey, N., **Arora S.**, Mishra, A.K., Gupta, V.K., Ramteke, P.W., and Kumar, A. (2018) Transcriptome-wide identification of genes involved in Ascorbate–Glutathione cycle (Halliwell–Asada pathway) and related pathway for elucidating its role in antioxidative potential in finger millet (*Eleusine coracana* (L.)). *3 Biotech* 8, 499.
4. Ambwani, Sonu & Kakade, Datta & **Arora, Sandeep & Ambwani, Tanuj.** (2018). Nonlinear response of Gold nanoparticles pertaining to immunotoxicity in chicken lymphocytes culture system. *Research journal of biotechnology.* 13. 64-73.

5. Kakade Datta, **Sandeep, Arora** and Sonu, Ambwani. (2018). Anti-proliferative effect of silver nanoparticles in HeLa cells due to enhanced oxidative stress. Research journal of biotechnology 13(2): 68-74.
6. Bartwal, A., & **Arora, Sandeep** (2017). Drought stress-induced enzyme activity and mdar and apx gene expression in tolerant and susceptible genotypes of *Eleusine coracana* (L.). In Vitro Cellular & Developmental Biology-Plant, 53(1), 41-49.
7. Pandey, S., Fartyal, D., Agarwal, A., Shukla, T., James, D., Kaul, T., Negi, Y.K., **Arora, Sandeep**, & Reddy, M. K. (2017). Abiotic Stress Tolerance in Plants: Myriad Roles of Ascorbate Peroxidase. Frontiers in Plant Science, 8, 581.
8. Rawat, M., Nayan, R., Negi, B., Zaidi, M. G. H., & **Arora, Sandeep** (2017). Physio-biochemical basis of iron-sulfide nanoparticle induced growth and seed yield enhancement in *B. juncea*. Plant Physiology and Biochemistry, 118, 274-284.
9. Gupta, S. M., **Arora, Sandeep**, Mirza, N., Pande, A., Lata, C., Puranik, S., Kumar, J., & Kumar, A. (2017). Finger Millet: a “Certain” Crop for an “Uncertain” future and a solution to food insecurity and hidden hunger under stressful environments. Frontiers in Plant Science, 8,643.
10. Bhawana Negi, Prafull Salvi, Deepesh Bhatt, Manoj Majee, **Sandeep Arora** (2017) Molecular cloning, in-silico characterization and functional validation of monodehydroascorbate reductase gene in *Eleusine coracana*. PloS one Vol. 12(11) e0187793