

**Name:** Amandeep Kumar

**Designation:** PhD Scholar

**E-mail ID:** aman\_bt@yahoo.co.in

**Education:**

PhD (Pursuing), M.Sc. (Plant Biotechnology), M.Phil. (Biotechnology)

**Research areas:**

DNA fingerprinting and Sequencing, Conservation Genetics, Microbiome studies of Medicinal and aromatic plant species.

**Projects:**

- Study of Genetic diversity of *Aconitum heterophyllum* and *Aconitum chasmanthum* and their root microbiome.
- Analysis of genetic diversity, distribution, germplasm characterization and conservation of prioritized medicinal plants.
- Promotion of Sodium Tolerance in Three Medicinal Plants Viz. *Plumbago zeylanica*, *Desmodium gangeticum* and *Uraria picta* through Selection.
- Genetic Diversity and microbiome studies in selected high altitude medicinal plants- *Nardostachys jatamansi*, *Valeriana wallichii* and *Aconitum balfourii*.
- Multi-centric investigations on *Brihatpanchamoola* with Special reference to anti-inflammatory profiling of young roots.

**Skills:**

Genetic analysis: DNA fingerprinting and Barcoding of plants, Conservation using genetical approach of endangered plants. Plant Tissue Culture: In-vitro studies, Micro propagation (Standardization and multiplication), Stress Tolerance Studies.

**Publications:**

- **Kumar Amandeep**, Singh Ishika, Badari Narayan S. (2018). Extraction of Genomic DNA from Dried mature leaves of *Eclipta alba* (L.) suitable for ISSR-PCR. *International journal of molecular biotechnology*. 4 (2): 23-30.
- Verma Vijeshwar, Haji Ahmad R.F., Tiwari B.S., Gandhi S.G., **Kumar Amandeep** and Brindavanam N.B. (2016). Genetic diversity analysis among accessions of *Desmodium*

*gangeticum* (L) with simple sequence repeats (SSR) and Inter transcribed spacer (ITS) regions for species conservation. *Journal of biodiversity, bioprospecting and development*. 3(2): 1-5.

- **Kumar Amandeep**, Verma Gaura, Datta S., Brindavanam N. B., Badari Narayan S. (2017-2018). *In-vitro* propagation of the medicinal plant *Uraria picta* through nodal explants. *Info Ayurveda*. 13(3,4): 14-19.
- **Kumar Amandeep**, Brindavanam N. B. (2013-2014). Prishniparni-A Journey from forest to farm. *Envis newsletter on medicinal plants*. 7 (1,2,3 and 4): 3-5.
- C. S. Rana, **K. Amandeep**, G. P. Kimothi, S. B. Narayan, J. L. N. Sastry. (2018). Notes on identity of *Picrorhiza* - A High Value Threatened Medicinal Plant Group of Western Himalaya. *NELUMBO- A bulletin of the Botanical Survey of India*. 60(1): 38-43.
- Haji Ahmad R.F., Bhargava M., Akhoun Bashir A., **Kumar Amandeep**, Brindavanam N.B. and Verma Vijeshwar. (2014). Correlation and functional differentiation between different markers to study the genetic diversity analysis in medicinally important plant *Plumbago zeylanica*. *Industrial crops and products*. 55: 75-82.
- **Kumar Amandeep**, Pandey Vijay, Badarinarayan S. (2015-2016). Technological Interventions to Ensure Quality Planting Material of Commercially Important Medicinal Plants Species. *ENVIS Newsletter on Medicinal Plants*. 9: 3-6.
- **Kumar Amandeep**, Badarinarayan S., Brindavanam N. B. (2014). Genetic Variability in Two Important medicinal plants of India- *Oroxylum indicum* & *Gmelina arborea* using RAPD and ISSR markers. *Indo Global Journal of Pharmaceutical Sciences*. 4(3): 217.