

Dr. Shyam Sundar Sharma

Research Associate

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Dr Shyam Sundar Sharma has over 8 years of research experience in the field of plant molecular biology. He has done his PhD from TERI University, New Delhi in November, 2015 on molecular characterization of *Pongamia pinnata* to identify high yielding genotypes with high oil content for generation of high quality planting stock. He has used AFLP, ISSR, microsatellites and recently GBS markers in different crop plants for genetic diversity assessment, development of core germplasm, population structure, molecular mapping and marker-assisted breeding. He has 12 research articles to his credit in peer reviewed journals.

Current Research Involvements:

- Mapping and identification of molecular markers associated with heat tolerance QTLs in tomato.
- Marker Assisted Introgression of TYLCV resistance in to Indian tomatoes.
- Germplasm collection, genetic diversity assessment and conservation of Kadaknath indigenous poultry breed.

Selected Publications

- Sharma SS, Islam MA, Singh VK, Negi MS, Tripathi SB (2017) Genetic diversity, population structure and association study using TE-AFLP markers in *Pongamia pinnata* (L.) Pierre germplasm. *Tree Genetics & Genomes*: 13:6 DOI 10.1007/s11295-016-1088-6
- Islam MA, Sinha P, Sharma SS, Negi M S, Bijoy Neog and Tripathi SB (2016) Analysis of genetic diversity and population structure in Capsicum landraces from North Eastern India using TE-AFLP markers. *Plant Molecular Biology Reporter* DOI 10.1007/s11105-015-0968-5.
- Islam MA, Sharma SS, Sinha P, Negi M S, Bijoy Neog and Tripathi SB (2015) Variability in capsaicinoid content in different landraces of Capsicum cultivated in north-eastern India. *Scientia Horticulturae*183:66–71.
- Sharma SS, Negi MS, Sinha P, Kumar K, Tripathi SB (2014) Isolation and characterization of first set of microsatellite markers in *Pongamia pinnata* (Fabaceae). *Journal of Genetics* 93:e70-74.

- Sharma SS, Negi MS, Sinha P, Kumar K, Tripathi SB (2011) Assessment of genetic diversity of Biodiesel species *Pongamia pinnata* Accessions using AFLP and Three Endonuclease-AFLP. *Plant Molecular Biology Reporter* 29: 12-18.