Dr. Ashutosh Singh
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EDUCATIONAL QUALIFICATIONS

- **B. Sc. (Ag.) :** P.S.B. Visva Bharati, Santiniketan, West Bengal
- **M.Sc. (Plant Biotechnology):** UAS, GKVK, Bangalore
- **Ph.D. (Plant Biotechnology):** UAS, GKVK, Bangalore

PROFESSIONAL AREA

- **Research Area**: Molecular Breeding, Reproductive heat stress tolerance, Pollen-based selection.

PUBLICATIONS

- **Research articles / Review articles /Short Communication: 22**
- **Books : 02**
- **Book Chapter: 06**
- **Popular articles: 18**

KEY PUBLICATIONS:

- Chandra, Ajay Kumar, Anjali Joshi, Aparna Tripathi, Amarjeet Kumar, Saurabh Pandey, **Ashutosh Singh*,** Dalpat Lal, Alka Bharati, Sneha Adhikari, and Vishal Dinkar. 2022, "Climate-Resilience Maize: Heat stress, Signaling, and Molecular interventions. Journal of Plant Growth Regulation, 1-18.
- Kumari, M., Pandey, S., Chauhan, D., Pandey, H., Divakar, S., Meena, K. and **Ashutosh Singh*,** 2023.Differential expression of the AP2/EREBP gene family in the contrasting genotypes of maize provides insights of abiotic stress tolerance. Cereal Research Communications, pp.1-16.
- Suresh H Antre, **Ashutosh Singh*** and R L Ravikumar, 2023. "Molecular analysis of the F4 progenies obtained through pollen selection for heat tolerance in maize (Zea mays)". Indian Journal Agricultural Science: 93 (2). https://doi.org/10.56093/ijas.v93i2.122767.
- Saurabh Pandey, **Ashutosh Singh*,** Swarup K. Parida, Manoj Prasad, 2022, Combining speed breeding with traditional and genomics assisted breeding for crop improvement. Plant Breeding, 141(3):301-313.
- **Ashutosh Singh*,** Ravikumar, R.L., Kuchanur, P.H. and Antre, S.H., 2022, Consequence of cyclic pollen selection for heat tolerance on the performance of different generations in maize (Zea mays L.). Journal of genetics, 101(33):1-9.
- Upasana Mohapatra, **Ashutosh Singh*** and R. L. Ravikumar, 2020 Effect of gamete selection in improving of heat tolerance as demonstrated by shift in allele frequency in maize (Zea mays L.). Euphytica, 216(76):1-10.
- **Ashutosh Singh*,** Antre, S.H., Ravikumar, R.L., Kuchanur, P.H. and Lohithaswa, H.C., 2020, Genetic evidence of pollen selection mediated phenotypic changes in maize conferring transgenerational heat stress tolerance. Crop Science, 60(4):1907-1924.
- Meena, Khem Raj, Satyam Satyam, **Ashutosh Singh*,** Aman Jaiswal, and Dinesh Rai. 2022, Benchmarking of different microbes for their biosurfactants antifungal action against plant pathogens. Indian Journal of Experimental Biology (IJEB) 12(60): 931-938.
- **Ashutosh Singh*,** R.L. Ravikumar and Suresh H. Antre, 2021, Comparison of methods of pollen selection for heat tolerance and their effect in segregating population of maize (Zea mays L.). Agricultural Research. 10:15-20.
- **Ashutosh Singh,** Pavan Jingade, and R.L. Ravikumar, 2016. Genetic variability for gametophytic heat tolerance in maize inbred lines. SABRAO Journal of Breeding and Genetics. 48 (1) 41-49.