Dr. Sundip Kumar

DESIGNATION:	Professor
QUALIFICATION:	M. Phil., Ph.D., BOYSCAST Fellow
SPECIALISATION:	Molecular Cytogenetics
EMAIL:	sundip_m@gmail.com sundip.kumar@gbpuat-cbsh.ac.in
CONTACT NO.:	+91-9410168458

Research Areas/ Areas of Interest

- Bioinformatics
- Plant Molecular biology
- Genetics
- Plant Genetics
- Plant Breeding
- Classical and Molecular Cytogenetics

Research Projects

- 03- DBT, New Delhi (02); UCB, Dehradun (01)

Publications

1. Pal, N., Jan, I., Saini, D.K., Kumar, K., Kumar, A., Sharma, P.K., **Kumar, S.,** Balyan, H.S. and Gupta, P.K., 2022. Meta-QTLs for multiple disease resistance involving three rusts in common wheat (Triticum aestivum L.).
2. Kumar, N., Tiwari, A., Pal, N. and **Kumar, S., 2022.** Genome-wide identification, characterization and relative expression analysis of putative iron homeostasis genes: NAS, NAAT, and DMAS in hexaploid wheat and its progenitors. Journal of Cereal Science, 105, p.103446.
3. Pal, N., Saini, D.K. and **Kumar, S., 2021.** Meta-QTLs, ortho-MQTLs and candidate genes for the traits contributing to salinity stress tolerance in common wheat (Triticum aestivum L.). Physiology and Molecular Biology of Plants, 27(12), pp.2767-2786.

4. Thakur, S., Kumar, U., Malik, R., Bisht, D., Balyan, P., Mir, R.R. and **Kumar, S., 2021.** Physical localization of 45S rDNA in Cymbopogon and the analysis of differential distribution of rDNA in homologous chromosomes of Cymbopogon winterianus. PloS one, 16(11), p.e025711
5. Kumari, P., Singh, K.P., **Kumar, S.** and Yadava, D.K., 2020. Development of a yellow-seeded stable allohexaploid brassica through inter-generic somatic hybridization with a high degree of fertility and resistance to Sclerotinia sclerotiorum. Frontiers in Plant Science, 11, p.57559.
6. Mathpal, P., Kumar, U., Kumar, A., **Kumar, S.,** Malik, S., Kumar, N., Dhaliwal, H.S. and Kumar, S., 2018. Identification, expression analysis, and molecular modeling of Iron-deficiency-specific clone 3 (Ids3)-like gene in hexaploid wheat. 3 Biotech, 8(4), 7p.219.
7. Sheikh, I., Sharma, P., Verma, S.K., **Kumar, S.,** Kumar, N., Kumar, S., Kumar, R., Vyas, P. and Dhaliwal, H.S., 2018. Development of intron targeted amplified polymorphic markers of metal homeostasis genes for monitoring their introgression from Aegilops species to wheat. Molecular breeding, 38(4), p.47.
8. Tiwari VK, Rawat N, Neelam K, **Kumar S,** Randhawa GS, Dhaliwal HS (2010) Substitutions of 2S and 7U chromosomes of Aegilops kotschyiin wheat enhance grain iron and zinc concentration. Theoretical and Applied Genetics 121(2): 259–269.
9. Neelam K, Rawat N, Tiwari VK, **Kumar S,** Chhuneja P, Singh K, Randhawa GS, Dhaliwal HS (2011) Introgression of group 4 and 7 chromosomes of Ae. peregrina in wheat enhances grain iron and zinc density. Molecular Breeding 28 (4): 623-634.
10. Sharma SK, Mehra P, Kumari J, **Kumar S,** Kumaria S, Tandon P, Rao SR (2012) Physical localization and probable transcriptional activity of 18S–5.8S–26S rRNA gene loci in some Asiatic Cymbidiums (Orchidaceae) from north-east India. Gene 499 362–366 doi:10.1016/j.gene.2012.03.007