Resume

Dr. Anil Kumar Singh, Ph.D.
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Research Interests:

SUMMARY

- The genome's structure and function to discover genes involved in any observable trait recognized as having underlying genetic causes in plants.
- Plant tissue culture as an important tool for the continuous production of active compounds including secondary metabolites and engineered molecules.

EDUCATION

- Graduation B.Sc.(Ag&Ah) from C.S.A. University of Agricultural Sciences and Technology Kanpur, UP.
- Post Graduation M.E. (Biotechnology) from Birla Institute of Technology and SciencesPilani, Rajasthan.
- Ph.D. from V. B. S. Purvanchal University, Jaunpur.UP.

PROJECTS/GRANTS

PI/CO-PI	Title ofProject(s)	Year	Amout	FundingAgency	Name of PI/ Project Coordinator
PI	Production of planting material in selected ornamental crops through conventional and tissue culture methods.	2006-2010	30.00	HTMM-1, ICAR	Dr.R.K.Pandey
CO-PI	High Density orcharding of Mango and Guava in Jammu sub-tropics	2011-2014	21.90	HTMM-1, ICAR	Dr.Akash Sharma
CO-PI	Assessment of genetic diversity of basmati rice using molecular markers and *in situ* conservation through participatory approach.	2011-1014	19.13	DST	Dr.R.K.Salgotra
CO-PI	Molecular marker assisted introgression and validation of blast resistance genes in rice cultivar K343 recommended for hill zone of Jammu and Kashmir.	2014-18	30.29	DST	Dr.Manmohan Sharma
CO-PI	FIST	2019-23	50.00	DST	Dr.R.K.Salgotra
CO-PI	Establishment of	2023-	900.00	NABARD	

	research and development centre of Basmati Rice at SKUAST-Jammu				

Best TenPublications

- M.Mushtaq, A.Sakina, S.H.Wani, A. B. Shikari,PTripathi,A Zaid, A.Galla ,M.Abdelrahman ,M.Sharma, **A.K.Singh,**R.K.Salgotra (2019) Harnessing Genome Editing Techniques to Engineer Disease Resistance in Plants. Frontiers in Plant Science. Vol:10 article 550.
- Mushtaq,M, Bhat,J.A., Mir,Z.A., Sakina,A.Ali,S. **Singh,A.K.,**Tyagi,A., Salgotra,R.K., Dar,A.A. and Bhat,R. (2018). CRISPR/Cas approach: A new way of looking at plant abiotic interactions. Journal of Plant Physiology. Page 156-162
- Madhvi Sharma*, Sunil. S Gangurde R.K. Salgotra, Bupesh Kumar**A.K. Singh** and Manish K Pandey. (2021). Genetic mapping for grain quality and yield-attributed traits in Basmati rice using SSR-based genetic map. Journal of Biosciences (2021) 46:50

- Rohini Bhat, **Singh A.K.**, Salgotra, R.k., Sharma M., Mushtaq,M ., SreshtiBagati , SharmishtaHangloo and Amrinder Singh (2019) Detection of Quantitative Trait Loci for panicle architecture in F2 Population of rice (*Oryza sativa* L.) using SSR markers. Journal of Genetics, Springer (2019).
- Ahmed S., Sharma A., **Singh A.K.,**Wali V.K., and Kumari P. (2014) In –vitro multiplication of Banana (Musa sp.)cv Grand Naine. African journal of Biotechnology Page: 2696-2702
- MridhuSharma ,Mamta Sharma, **A. K. Singh, R.k.Salgotra, Manmohan Sharma, Bupesh K Sharma and S.K.Gupta.** (2022)In Vitro Double Haploid Production of Bacterial Blight Resistant Plants from BC2F1 Plants (RanbirBasmatix Pau148) through Anther Culture.International Journal of Agriculture System Vol.10 Issue 1 Page 55-71
- RohiniBhat,**Anil Kumar Singh**, M.Mushtaq R.K. Salgotra, Manmohan Sharmaet all.(2022). Identification of QTLs for Yield and Associated Traits in F2 Population of Rice. Phyton-International Journal of Experimental Botany 2439-2459.
- Supneet Kaur, **Singh A.K.**, SreshtiBagati, Mamta Sharma and Satish Kumar Sharma (2018) Morphological Marker based assessment of Genetic Diversity in cultivated tomato (*SolanumLycopersicon* L) genotypes. International Journal of Environment, Agriculture and Biotechnology. Vol 2 issue2, page 1-7**.**
- Mridhu Sharma*, A.K. Singh and R.K. Salgotra(2020) In-Vitro Screening and Molecular Characterization of the Double Haploids for the Bacterial Blight Resistance Genes *Xa21* and *Xa13* Int.J.Curr.Microbiol.App.Sciences *9*(1): 2006-2013.
- Bagati S., **Singh A.K.**, Salgotra R.K., Bhardwaj R., Sharma M.,Rai S.K. and Bhat A. (2016) Genetic Variability,Heritability and Correlation Coefficients of yield and its component Traits in Basmati Rice (*Oryza sativa* L.). Sabrao journal of Breeding and Genetics 48(4) 445-452.