



Dr (Mrs.) Daisy Basandrai
Joint Director
School of Crop Resistance System Research

Dr. (Mrs.) Daisy Basandrai was borne on 14th March 1965, did her Ph.D. in Genetics from Punjab Agricultural University, Ludhiana. She joined CSK HPKV Palampur as Assistant Scientist (Plant Breeding) in 1989. Thereafter, shifted to HAREC Dhaulakuan in 1996. She was transferred to RWRC Malan in 2015, and then again to CSK HPKV Palampur in 2019. She worked as Scientist Incharge, RWRC Malan, Associate Director (Extension), University Librarian and Student Welfare Officer while at CSK HPKV Palampur.

Dr. (Mrs.) Daisy Basandrai has received many prestigious awards and recognitions viz. she has won CSIR Junior and Senior Fellowship during Ph.D. Genetics at PAU Ludhiana. Awarded **ICAR Jawahar Lal Nehru Award** for outstanding Post-Graduate research in Agriculture for the year 1990, in the field of Plant Breeding and Genetics. Awarded **Dr M S Swaminathan best women Scientist award** by ISGPB. She received **Vice Chancellor's appreciation certificates during 2002, 2003 and 2021**. Awarded 4 best poster awards in national and International conferences. She is Fellow, Indian Society of Genetics and Plant Breeding and Indian Society of Pulses Research and Development, She remained Chair Person of Intellectual Property Right Cell of the university wef 2019-2023.

She is associated with the development/ identification of 24 crop varieties viz. Rice HPR 2656 (Him Palam Dhan 1), HPR 2880 (Him Palam Dhan 2), HPR 2865 (Him Palam Dhan 3), HPR 3102 (Him Palam Dhan 4), HPR 2795(Him Palam Lal Dhan 1), HPR 2922 (Sikkim Dhan 2) and HPR 2774 (Sikkim Dhan 3), BS 10008 and Arize Swift Gold; Wheat: HPW 373 (Him Palam Gehun 3), Chickpea: ICCX810800 (Himachal Chana1), ICCV 90201(Himachal Chana II), GPF 2, Him Palam Chana 1 (DKG 986); Lentil: EC 1; Soybean: Palam Soya, Harit soya, Him Palam Early Soya 1, Palam Hara Soya 1; Urdbean: Himachal Mash 1; Horse gram: VLG 1 (Dharuv); Cowpea: C 475 and C 519; Moong : SML 668. All the varieties remained in the seed chain and showed resistance to the prevailing prominent diseases.

She has identified disease resistant sources in wheat, rice, flax, pulse crops, soybean etc. Studied genetical and Molecular basis of resistance to various diseases through GWAS, GGE biplot, MAS etc. Among the resistant donors, one accession each of *L. orientalis* and *L.nigricans* for resistance to rust & powdery mildew were registered with NBPGR. She has successfully completed more than 25 research projects funded from outside agencies (DBT, ICAR, RKVY, HTM, PKKKY, JICA etc.) and developed collaboration with international Institutes like ICRISAT, ICARDA, AVRDC and CIMMYT. She has guided 10 M.Sc. and 2 Ph.D students for their research work and was in advisory committee of 30 students. Published >190 publications comprising 82 research papers (30 with >6.00 NAAS rating), two books and 12 book chapters and a policy paper on IPR. Taught UG and PG courses in Genetics and Plant Breeding.

She was selected for 15th BWIC at CIMMYT Mexico (2015), Visiting Scientist, ICRISAT, Patancheru (1999) and as a member of the delegation of pulses scientists to visit ICARDA, Syria (2006).