



Dr. H. S. Meena

Scientist, Senior Scale
(Genetics)

- 1 Date of birth : 20-10-1976
- 2 Educational Qualification : Ph.D (Genetics), (2005); M.Sc (Genetics), IARI, New Delhi (2001)
- 3 Joining Date in ICAR : 25-11-2005
- 4 Joining Date in DMR : 28-05-2012
- 5 Discipline /Specialization : Genetics & Plant Breeding
- 6 Research Experience : 9 Years
- 7 Training/advance exposure in the area of work : Obtained training on Advanced ‘Omics’ Techniques for Improvements in Plant and Human Health” at IARI, New Delhi; Obtained training on ‘Intellectual Property and Commercialization in Biotechnology at Amity University (Noida, UP)
- 8 Contribution to the Scientific advancement
 - Genetics of seed characters & breeding for moisture stress tolerance in chickpea.
 - Hybrid seed production technology of rice, maximization of seed yield through SRI and quality seed production of wheat & rice.
 - Genetic purity testing in major crops, seed quality enhancement through film coating, long term storage of seeds and effect of crop geometry and nutrient management on quality seed recovery of wheat & rice.
 - Resynthesis of *Brassica juncea* and creation of novel genetic variability through inter-specific hybridization.
- 9 Future planning of research
 - Development of synthetic *B. juncea* lines using diploid (*B. rapa* and *B. nigra*) as well as amphidiploid (*B. napus* and *B. carinata*) Brassica species.
 - Breeding for dwarf early maturing high yielding genotypes and disease resistance in rapeseed-mustard.
- 10 Awards/Recognitions
 - Best Poster Award (2014) for ‘Cytological investigations in colchicine-induced tetraploids of *Brassica fruticulosa*’ by Society for Rapeseed Mustard Research, Bharatpur.

- Best Poster Award (2014) for ‘Characterization of Brassicas for Alternaria blight (*A. brassicae*) tolerance and genetic diversity assessment through molecular assays’ by Society for Rapeseed Mustard Research, Bharatpur.

11 Publications (best five)

- **Meena, H.S.**, Kumar, J., and Deshmukh, P.S. (2006). Genetic variability and correlation studies for drought tolerance in chickpea (*Cicer arietinum L.*). *Indian Journal of Genetics and Plant Breeding*, **66** (2): 140.
- **Meena, H.S.**, Kumar, J., and Yadav, S.S. (2006). Diallel analysis for components of genetic variation on some traits related to drought tolerance in chickpea (*Cicer arietinum L.*) *Indian Journal of Genetics and Plant Breeding*, **66**(2): 173.
- **Meena, H.S.**, Kumar, J., and Yadav, S.S. (2004). Inheritance of seed colour in chickpea (*C. arietinum L.*) *Indian Journal of Genetics and Plant Breeding*, **64**(2): 151-152.
- **Meena, H.S.**, Dinesh, K and Rajendra Prasad, S. (2014). Genetic variability and character association in bread wheat (*Triticum aestivum*). *Indian Journal of Agricultural Sciences*, **84** (4): 487–91.
- **Meena, H.S.**, Dinesh, K, Srivastava, T.K. and Rajendra Prasad, S. (2014). Stability for grain yield and its contributing traits in bread wheat. *Indian Journal of Agricultural Sciences*, **84**(12): 1486-1495.

12. Professional membership

- Society of Rapeseed-Mustard Research, DRMR, Bharatpur