



Dr. K. H. Singh

Principal Scientist
(Genetics & Plant Breeding)

- 1 Date of birth : 12-02-1968
- 2 Educational Qualification : Ph.D (Plant Breeding), GBPUA&T, Pantnagar (1995) ; M. Sc. Ag (Genetics & Plant Breeding), CSAUA&T, Kanpur (1990)
- 3 Joining Date in ICAR : 28-01-1997
- 4 Joining Date in DMR : 28-01-1997
- 5 Discipline /Specialization : Genetics and Plant Breeding
- 6 Research Experience : 17 years
- 7 Training/advance exposure in the area of work : Obtained five months training on “Genetics of Host – Pathogen Interaction in White Rust of Indian Mustard” under Indo – UK Collaboration on oilseeds (as research attachment to study) at Rothamsted Research, UK. Training under international training programme on Plant Variety protection and DUS Testing at the NIAB Cambridge,
- 8 Contribution to the Scientific advancement
 - Developed “**NRCHB 506**” One of the first Indian mustard (*Brassica juncea* L) hybrids released in India, three varieties (**Giriraj**, **NRCHB 101** and **DMR 601**) of Indian mustard and one (NRCYS 05-2) of yellow sarson (*Brassica campestris syn rapa*). Registered 10 novel genetic stocks with NBPGR, New Delhi
 - Prepared draft guidelines for conduct of DUS testing in rapeseed-mustard and database of 105 rapeseed-mustard varieties for DUS characteristics.
 - Submitted 36 applications of extant varieties for registration under PPV & FRA. 15 varieties have been granted certificates for registration by PPV & FRA.
 - Procured intellectual property right on hybrid NRCHB 506 and variety NRCHB 101 of Indian mustard under PPV & FRA and commercialized 3 varieties/hybrid of Indian mustard under public-private partnership mode
- 9 Future planning of research
 - Development of white rust resistant quality hybrids to achieve high productivity and ensure good quality of oil and seed meal
 - Development of heterotic pools in Indian mustard for sustainable development of hybrids

- Enhancement in the efficiency and precision of multilocation evaluation of promising entries under coordinated trials
- Development of short stature, high yielding *Brassica carinata* genotypes with tolerance/resistance against abiotic/biotic stresses

10 Awards/Recognitions

- Fellow (2014), Society for Rapeseed-Mustard Research, Bharatpur
- Best Scientist Award for the year 2012, Directorate of Rapeseed-Mustard Research, Bharatpur
- Fellow (2010), Indian Society of Oilseeds Research, Directorate of Oilseeds Research, Hyderabad
- Recognition award (2008) Lupin Human Welfare and Research Foundation (NGO) Bharatpur, India
- Fellow (1999) Indian Society of Genetics and Plant Breeding New Delhi, India
- Senior Research Fellowship (SRF) of ICAR in 1996.

11 Publications (best five)

1. **K. H. Singh**, R. Shakya , A. K. Thakur, D. K. Chauhan and J. S. Chauhan (2013). Genetic Diversity in Indian Mustard [*Brassica juncea* (L.) Czernj & Cosson] as Revealed by Agronomic Traits and RAPD Markers. *Natl. Acad. Sci. Lett.* **36**: 419-427
2. **K H Singh**, R. K. Mahawar, Ritu Shakya and J S Chauhan (2012). Inheritance of nodal pigmentation in Indian mustard (*Brassica juncea* L. Czern & Coss). *Indian J. Genet.* **72** (1) : 92-93
3. **K H Singh** and J S Chauhan (2011). Genetics of flower colour in Indian mustard (*Brassica juncea* L. Czern & Coss). *Indian J. Genet.* **71** (4) : 377-378
4. **K H Singh** and K. K. Srivastava (2006). Characterization of different cytoplasmic male sterility systems in Indian mustard. *Plant Breeding.* **125**:72-76
5. **K H Singh**, K. K. Srivastava and J. S. Chauhan (2005). Response to selection in F_2 , in the F_5 generation in Indian mustard (*Brassica juncea* L. Czern & Coss). *Indian J. Genet.* **65**:274-277

12 Professional membership

- Society of Rapeseed-Mustard Research, DRMR, Bharatpur
- Indian Society of Oilseed Research, DOR, Hyderabad
- Indian Society of Genetics and Plant Breeding, New Delhi
- Indian Society of Plant Genetic Resources, New Delhi