

## BRIEF BIODATA OF Dr NEERAJ KULSHRESHTHA



1. Name : Dr Neeraj Kulshreshtha

2. Date of birth : Feb 11, 1966

3. Present Position and (postal, phone & email) address :

Sr Scientist, Plant Breeding  
Division of Crop Improvement  
CSSRI Karnal 132001  
Email: neeraj@cssri.ernet.in

4. Academic record (Bachelor's degree onward)

Degree	University/ Institution	Year	Distinction, if any
Matriculation	P.S.Ed.B. Mohali	1980	Math, Science
Bachelor's Degree	Pbi. Univ. Patiala	1984	
Master's Degree (Plant breeding)	GBPUA&T PANTNAGAR	1987	
Doctorate (Plant breeding)	-do-	1992	

5. Research Experience:

(a) Total (yrs): 14

(b) Year wise breakup with position

Employer	Designation with Institution and Place of Work	Nature of Duties	Period	Scale of Pay	Whether Permanent/ Temporary
President, ICAR, New Delhi	Scientist, Div. Of Crop Improvement IISR Lucknow	Research	21.07.93 to 20.07.98*	8000- 13500	Permanent
President, ICAR, New Delhi	Scientist (Sr Scale) Div. Of Crop Improvement IISR Lucknow	Research	21.07.98 to 20.07.02	10000- 15200	Permanent
President, ICAR, New Delhi	Senior Scientist, Div. Of Crop Improvement IISR Lucknow	Research	21.07.02 to 28.07.03	12000- 18300	Permanent
President, ICAR, New Delhi	Senior Scientist, Div. Of Crop Improvement CSSRI, Karnal	Research	29.07.03 to continued	12000- 18300	Permanent

6. Specialization:

a) Scientific capabilities and interests (3-5 Key words) Wheat Salt Stress Improvement

b) Salient Accomplishments (3 to 5 in bullet form)

- Developed **KRL 99** the tolerant most amber grained genotype of wheat in India with respect to sodicity and waterlogging stresses in amber grain coloured back ground. The genotype has been registered at NBPGR for further use by different wheat breeders.
- Involved as a **key person** in coordination, planning and execution of breeding salt tolerant varieties in wheat in National programme. This involves coordinating wheat trials and screening nurseries under salt stress field conditions at about 10 to 13 locations in different zones in India every year.

- A number of salt tolerant wheat varieties including KRL 210, KRL 213, KRL 238, KRL 239 and KRL 240 have been developed and are in final years of testing under coordinated trials. In addition a number of sugarcane genotypes have been developed and are being evaluated in the coordinated projects.
- Extensive studies on **waterlogging tolerance** in wheat have been carried out through ACIAR, Australia funded research project.
- Carrying out research work related to **salt tolerance and waterlogging tolerance in wheat** (CSSRI, Karnal) for the last four years. These include Station and Coordinated trials for salinity and alkalinity tolerance and screening nursery under Field and controlled conditions (microplots).
- Published 12 Research Papers, one technical bulletin and 13 publications in Conferences with 14 years of research experience in different areas including genetics, breeding and germplasm enrichment activities in wheat and sugarcane.
- Studied the influence of prolonged winter chill-induced low temperature stress on sugarcane.
- Development and screening of clones suitable under late planted conditions in sugarcane (IISR, Lucknow), selection strategy for late planted conditions, nutrient Uptake characteristics of *Saccharum* species.
- Attended a 21 days training on plant biotechnology at NRCPB New Delhi.

c) International Exposure

**7. Publications**

a) (i) Research (Journals)	12
(ii) Books	
(iii) Book Chapters	
(iv) National/ International Seminar/ Symposia	13
(v) Bulletins/ Technical Reports	1
<b>Total</b>	<b>16</b>

b) Best 5 publications of last 10 years (to be appended)

Singh, K.N. Kulshreshtha Neeraj, Kumar Vinod and Setter T.L. (2006). Genetic variability of wheat (*Triticum aestivum*) lines for grain yield and component characters grown under sodic and waterlogged conditions. **Indian Journal of Agricultural Sciences** 76(7): 414-419.

Kulshreshtha Neeraj and Singh, K.N (2007) Combining ability studies in wheat (*Triticum aestivum* L.) for genetic improvement under salt stress. Communicated to **Indian J. Genet.**

Srivastava, A.K.;Srivastava,A.K.; Kulshreshtha,N.; Srivastava S. ; Pathak, A.S., Solomon, S.; Srivastava, B.L.; Srivastava, M.K.; Rai, R.K., Singh, I.; Singh, Pushpa; Suman, A.; Gupta, P.S.; Sawnani, A.; Prajapati, C.P.; Gaur, A.; Saxena, V.K. and Mishra, A.K. (2005). Influence of prolonged winter chill-induced low temperature stress on sugarcane. **Sugarcane International**, 23(3): 3-11.

Kulshreshtha, Neeraj, Srivastava, H.M. and P.K. Bajpai. (2002). Simultaneous selection for commercial cane sugar and stability under late planted sugarcane. **Indian J. Genet** ,62 (2):141-143.

Srivastava H.M.; Gauch, G. Hugh; Kulshreshtha, N.and G.P. Mishra (1999). Genotype \* Environment Interaction - Efficiency and use of **AMMI matmodel** in Sugarcane. Proc. **International Soc. Sugar Cane Technol.**, 23, 2, 476-485.

c) Best 10 publication of whole career (to be appended)

Singh, K.N. Kulshreshtha Neeraj, Kumar Vinod and Setter T.L. (2006). Genetic variability of wheat (*Triticum aestivum*) lines for grain yield and component characters grown under sodic and waterlogged conditions. **Indian Journal of Agricultural Sciences** 76(7): 414-419.

Kulshreshtha Neeraj and Singh, K.N (2007) Combining ability studies in wheat (*Triticum aestivum* L.) for genetic improvement under salt stress. Communicated to **Indian J. Genet.**

Singh, P.K.; Kulshreshtha, N.; Shukla, R.K. and Awasthi, S.K. (2000). Character association for higher cane yields under water logged conditions. **Indian Journal of Sugarcane Technology**, 15, 1, 63-67.

Srivastava, A.K.; Srivastava, A.K.; Kulshreshtha, N.; Srivastava S. ; Pathak, A.S., Solomon, S.; Srivastava, B.L.; Srivastava, M.K.; Rai, R.K., Singh, I.; Singh, Pushpa; Suman, A.; Gupta, P.S.; Sawnani, A.; Prajapati, C.P.; Gaur, A.; Saxena, V.K. and Mishra, A.K. (2005). Influence of prolonged winter chill-induced low temperature stress on sugarcane. **Sugarcane International**, 23(3): 3-11.

Kulshreshtha, N.; Mani, S.C. and Chandra, S. (1993). Triple test cross analysis for yield and yield components in rice (*Oryza sativa* L.) **Indian J. Genet.**, 53(3): 243-246

Kulshreshtha, Neeraj, Srivastava, H.M. and P.K. Bajpai. (2002). Simultaneous selection for commercial cane sugar and stability under late planted sugarcane. **Indian J. Genet** , 62 (2): 141-143.

Singh, P.K.; Singh J.; Kumar Sanjeev and N. Kulshreshtha (2005). Assessment of impact of sub-optimal conditions on some elite sugarcane genotypes. **Cooperative Sugar**, 37(1): 73-76.

Pathak, A.D; Natarajan U.S. and N. Kulshreshtha (2000). Divergence studies among interspecific hybrids of sugarcane (*Saccharum sp.*). **Annals of Agricultural Research**, 21, 3, 410-412.

Srivastava H.M.; Gauch, G. Hugh; Kulshreshtha, N. and G.P. Mishra (1999). Genotype \* Environment Interaction - Efficiency and use of **AMMI matmodel** in Sugarcane. **Proc. International Soc. Sugar Cane Technol.**, 23, 2, 476-485.

8. Awards/ Special recognitions (Limit to the best five)

**Awarded UGC JRF/SRF during Ph.D.**