

## List of Publications of Dr. Ratan Tiwari, Pr. Scientist (Biotechnology), DWR, Karnal, Haryana- 132 001

### Research papers

1. Singh R, Tyagi BS, Pahwa G, Sareen S and **Tiwari R.** 2012. Genetic Molecular marker-based detection of *Ph1b* mutation to increase homoeologous pairing in wheat. *Indian Journal of Agricultural Sciences.* 82 (4): 365–7, April 2012
2. Deepa Garg, Sindhu Sareen, Sunita Dalal, Ratan Tiwari, Rajender Singh (2012). Heat shock protein based SNP marker for terminal heat stress in wheat (*Triticum aestivum* L.). *Aust. J. Crop Science*, 6:1516-1521
3. Deepa Garg, Sindhu Sareen, Sunita Dalal, Ratan Tiwari, Rajender Singh. (2012). Grain filling duration and temperature pattern influence the performance of wheat genotypes under late planting. *Cereal Research Communications* (Accepted).
4. Elangovan M, Dholakia BB, Rai R, **Tiwari R**, Gupta RK and Gupta VS. 2011. Mapping QTL associated with agronomic traits in bread wheat (*Triticum aestivum* L.), *Journal of Wheat Research*, Vol 3, No1 pp14-23.
5. Priyamvada, Saharan MS and **Tiwari R.** 2011. Durable resistance in wheat. *International Journal of Genetics and Molecular Biology.* Vol 3(8), pp108-114.
6. Yogesh Kumar, Santosh Kumar, M.S.Saharan, Vinod Chhokar, Jag Shoran, **Ratan Tiwari** and B.Mishra, "DNA marker assisted incorporation of *Lr35* gene in wheat . *Plant cell Biotechnology and Molecular Biology* 12(1-4):71-76.
7. Rajender Singh, Umesh Gautam, RK Gupta, GC pandey, Jag Shoran and **Ratan Tiwari.** 2009. Allelic variation of functional markers for polyphenol oxidase (PPO) genes in Indian bread wheat (*Triticum aestivum* L.) cultivars. *Journal of Genetics* Vol 88, No.3 pp325-329.
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9. Priyamvada, **Ratan Tiwari**, M.S.Saharan, R.Chatrath, Priyanka Siwach and B.Mishra. 2009. Slow rusting gene *Lr34* in Indian wheat Genotypes. *Indian Journal of Biotechnology.* Vol 8: pp207-213
10. R. Singh, **R. Tiwari**, Priyamvada, R. K. Gupta, Jag Shoran and B. Mishra. 2009. 1RS.1BL translocation and grain yield as well as bread loaf volume in Indian wheats. *Cereal Research Communication.* Vol 37(3), pp 441-448.
11. **Ratan Tiwari**, Umesh Goutam, Rajender Singh, Jagdish Rane and R.K. Gupta. 2008. Grain quality parameters in high protien wheat genotypes at different locations and temperature regimes. *Journal of Wheat Research* 2(1):57-62.

12. Priyamvada, **Ratan Tiwari**, M.S. Saharan, Priyanka Siwach and B. Mishra. 2008. Selection of a breeder friendly marker for durable wheat leaf rust resistance gene *Lr34*. *Journal of Wheat Research* 2(1):31-32.
13. Rajender Singh, **Ratan Tiwari**, Priyamvada and Somvir Singh. 2008. A PCR – based screening assay of high molecular weight glutenin subunit 8 in wheat. *Journal of Wheat Research* 1 (1 &2): 48-50
14. Yogesh Kumar, **Ratan Tiwari**, Vinod Chhokar and Jag Shoran. 2008. Pyramiding rust resistance genes in wheat. *Annals of Biology* 24 (2): 173-177
15. Elangovan M, Rai R, Dholakia BB, Lagu MD, **Tiwari R**, Gupta RK, Rao VS, Röder MS and Gupta VS .2008 . Molecular genetic mapping of quantitative trait loci associated with loaf volume in hexaploid Wheat (*Triticum aestivum* L.) *Journal of Cereal Science* 47:587-598
16. Saharan, M. S., A. Naef, J. Kumar and **R. Tiwari**. 2006. Characterization of genetic variation among isolates of *Fusarium graminearum* associated with head scab of wheat using DNA markers. *Current Science* Vol. 92, No. 1.
17. Singh R and **Tiwari R** (2005). Selection in early breeding generations for leaf rust resistance genes in wheat (*Triticum aestivum*) with molecular markers. *Plant Cell Biotechnology and Molecular Biology* 6(3 &4):95-100.
18. Singh R, Datta D., Priyamvada, Singh S and **Tiwari R**. (2004). Marker assisted selection for leaf rust resistance genes *Lr 19* and *Lr 24* in wheat (*Triticum aestivum* L.). *J. Appl. Genet.* 45(4). Pp 399-403.
19. Paillard S., T. Schnurbusch, **R. Tiwari**, M Messmer, M. Winzeler, B. Keller and G. Schachermayr (2004). QTL analysis of resistance to *Fusarium* head blight in Swiss winter wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics* Vol.109: 323 –332
20. Singh R, **Tiwari R** and Datta D (2003). Detection of leaf rust resistance genes *Lr9* and *Lr10* in wheat (*Triticum aestivum*) by PCR based STS markers. *Acta Phytopathologica et Entomologica Hungarica* 38(3-4) 245-249
21. **Tiwari R.**, Priyamvada, R. Singh, H.S. Nainawatee, R. Kumar, B.S. Tyagi, R.K. Gupta and S. Nagarajan (2002). Marker assisted detection of gene (1Dx5) and translocation (1B/1R) in wheat genotypes. *Indian Journal of Experimental Biology* 40:309-313.
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25. Kumar J, Saharan M.S., Sharma A.K., Sharma Sudhir, Somvir, **Tiwari Ratan** and Nagarajan S. (2003). Pathogenic and molecular variation among Indian isolates of *Tilletia indica* causing Karnal bunt of wheat. *Indian Phytopathology.* 57(2). 144-149
26. **Tiwari R.**, A.K. Joshi and V.P. Singh (1989). Hybrid Necrosis in Indian Wheat (*Triticum aestivum* L.) Varieties. *Indian Journal of Agricultural Sciences*, Vol. 59, No. 11, pp 703-705. November, 89.
27. **Tiwari R.** and H. Kumar (1998). Biochemical characterization of autotetraploids of garden pea (*Pisum sativum* L.). *Malaysian Applied Biology*, 27(1&2):33-37
28. Kumar H. and **R. Tiwari** (1997). Response of garden pea to gibberelic acid treatment - A Technique for screening diploids for chromosome doubling. *Legume Research*, 20(1): 33-36.
29. Kumar H and **R. Tiwari** (1999). Rust and Frost in relation with seed sugar content in Autotetraploids of Pea. *Legume Research* 22(2): 121-123.
30. **Tiwari R**, Kumar Y., Priyamvada, Saharan MS and Mishra B. 2008. Marker assisted approach for incorporating durable rust resistance in popular Indian wheat cultivars. In proceedings XI International Wheat genetics Symposium. August 24-29, 2008, Brisbane Queensland, Australia. pp 852-854.
31. Saharan MS, **Tiwari R**, Krattinger SG, Keller B, Priyamvada, and Mishra B. 2008. Genetic and phenotypic mapping for leaf rust resistance, *Lr34* in Indian bread wheat population. In proceedings XI International Wheat genetics Symposium. August 24-29, 2008, Brisbane Queensland, Australia. pp 833-835.
32. Elangovan M, Rai R, Oak M, Dholakia BB, Lagu MD, **Tiwari R**, Gupta RK, Tamhankar S, Roder MS and Vodya VS. 2008. Revealing the genetic relationship of dough mechanical properties with loaf volume using QTL analysis of mixograph traits in wheat. In proceedings XI International Wheat genetics Symposium. August 24-29, 2008, Brisbane Queensland, Australia. pp 492-494.

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- Priyamvada, Priyanka Siwach, Ratan Tiwari, Jag Shoran and B. Mishra (2007). "Molecular mechanism of disease resistance in wheat" *Advanced Biotech*, Vol.V, Issue.07, pp 29-31
- Priyamvada, Santosh Kumar, Sonia, Yogesh Kumar, Umesh Goutam, Jag Shoran, B .Mishra and Ratan Tiwari (2006). *Wheat Genome Sequencing: facts and future*, *Advanced Biotech*, Vol.V, Issue.01, pp 22-24
- Singh Rajender and **Ratan Tiwari** (2004). *Mapping Populations and Molecular markers*. *Agrobios Newsletter*. Vol 3, No.III. pp 10-11.
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- Kumar J., M.S. Saharan, S. Sharma, Priyamvada, **R. Tiwari** and S. Nagarajan (2001). A method to characterize response of wheat genotypes to Fusarial toxins. *Indian Wheat Newsletter*. Vol.6, No.2. 6pp
- Kumar J., M.S. Saharan, **Ratan Tiwari** and S. Nagarajan (2001). Beware while using HD 29 as a donor of resistance against KB of wheat. *Indian Wheat Newsletter* 7(1):8-9
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- Joshi A.K., **R. Tiwari** and B Rai (1988). *New Frontiers of Wheat Breeding Research : Problems and Prospects*. *Seeds and Farms*, Vol. XIV, No. 12, December, 1988.

#### **Technical Bulletins :**

- Singh R, Sharma P., Malik R. and **Tiwari R.** 2011.A compendium of lectures on "Marker assisted selection for rust resistance and quality traits in wheat. DWR Compendium No. 3, Directorate of Wheat Research. pp117.

- Sharma P., Singh R., Malik R., **Tiwari R** and Singh S.S. 2011. Laboratory Manual for winter school on "Marker assisted selection for rust resistance and quality traits in wheat. Directorate of Wheat Research. pp59.
- Ratan Tiwari**, BM Prassana, AK Singh, Sonia Sheoran, Rajender Singh and SS Singh. 2009. Molecular marker assisted plant breeding: a primer. Directorate of Wheat Research, Karnal. Pp28
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- Ratan Tiwari** and M.S. Saharan. 2011. Gene Pyramiding and Marker Assisted Selection for Rust Resistance Enhancement in Wheat . In Wheat Productivity enhancement under changing climate. Eds.: SS Singh, RR Hanchinal, G Singh, RK Sharma, BS Tyagi MS Saharan and Indu Sharma. pp 137-143.
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- Saharan M.S, Kumar J., **Tiwari R.**, Nagarajan S., Sharma S and Priyamvada. Phenotypic,(2004). Pathogenic and Molecular variation among *Fusarium spp*.

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Naik S., **R. Tiwari**, B.S. Gill, V.S. Gupta, V.S.P. Rao, P.K. Ranjekar, S. Nagarajan and B. Keller (2001). Utility of Molecular Marker in Breeding Rust Resistant Wheat Material. Proceeding of the National Symposium 'Role of Resistnace in Intensive Agriculture' (Eds) S. Nagarajan and D.P. Singh. Kalyani Publishers. 205- 215pp

Ranjekar P.K., Dhaliwal, H.S., Rao, V.S., Gupta V.S. and **Tiwari, R.** (1997) Molecular biology approaches to wheat improvement in India: Present status and future strategies. In Proc. International group meeting on "Wheat research needs beyond 2000 AD." (eds. Nagarajan, S., Singh, G. and Tyagi B.S.). Directorate of Wheat Research, Karnal Haryana, India. pp 145-159.

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2. Singh,R., Sharma P., Malik, R., Sheoran, S., **Tiwari, R.**, Kumar, R., Sharma, D., Saini, M., Pardeep Kumar & Pandey, G.C. 2010.Molecular marker assisted in-sight to wheat and barley genotypes. In Progress report of the All India Coordinated Wheat and Barley Improvement Project 2009-10-Genetic Resources. Eds. Kundu S., Malik R., Sheaoran S., Jag Shoran and Singh SS. Vol V. Directorate of Wheat Research, Karnal, India pp 63
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4. Sivasamy, M., R.N. Brahma, S.M.S. Tomar, Vinod, **Ratan Tiwari** and M. Prashar. 2007. Diversifying the genetic base for resistance in Indian bread wheat cultivars through introgression and pyramiding of newer, effective stem rust-

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  6. **Tiwari R**, and R.K. Gupta (2005). Quality Component Screening Nursery. Germplasm evaluation and enhancement. (Eds). S.K. Singh, Ravish Chatrath, Jag Shoran and B. Mishra. Genetic Resource Unit, Crop Improvement Programme, Directorate of Wheat Research, Karnal.32p
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