

PUBLICATIONS OF DR BS TYAGI, PRINCIPAL SCIENTIST DWR, KARNAL

RESEARCH ARTICLES IN JOURNALS

1. **BS Tyagi**, Jag Shoran, SK Singh, MS Saharan, J Kumar, Gyanendra Singh, Mangal Singh and Sudhir Kumar (2010). Genetic analysis of resistance to Karnal bunt caused by *Neovosia indica* in bread wheat (*Triticum aestivum*) Indian Journal of Agricultural Sciences. 80 (11): 952-5.
2. **BS Tyagi**, Jag Shoran, Gyanendra Singh, RK Gupta and SS Singh (2009). Prospects and opportunities for cultivation of quality durum wheat in India. Directorate of Wheat Research, Karnal 132001. Research Bulletin No. 25. Pp28.
3. PK Gupta, S Kumar, **BS Tyagi** and SK Sharma (1999). Chromosome interchanges in lentil (*Lens culinaris* Med.). *Cytologia* 64: 387-394.
4. S Nagarajan and **BS Tyagi** (1998). Wheat: India and international collaboration. In wheat prospects for global improvement (Eds HJ Braun et al). Kluwer Academic Publishers. P 539-545.
5. **BS Tyagi**, Gyanendra Singh and Jag Shoran (2004). Exploiting diversity in wheat: synthetic wheats as potential donors for some economic traits for the Indian subcontinent. Annual Wheat Newsletter 50:58-61. KSU, USA.
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7. Nagarajan, S, **Tyagi, BS** and Singh, Gyanendra (1997). Extent of Genetic Diversity of Wheat -The inadequacy to break yield barriers. In Symposium on "Genetics & Biotechnology in Crop Improvement" at CCS University, Meerut from 14-16 Feb., 1997.
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9. **Tyagi, B.S.**, S. Sareen, Gyanendra Singh and Jag Shoran (2008). Opportunities in wide hybridization for breaking wheat yield stagnation in India. *Journal of Wheat Research*, 2 (1): 20-28.
10. Gyanendra Singh, **B.S. Tyagi**, G.P. Singh, R. Chatrath, D.P. Singh and Jag Shoran (2008). Genetic analysis and association of spot blotch resistance caused by *Bipolaris sorokiniana* with morphological and yield attributed in bread wheat (*Triticum aestivum*), *Indian J. Agric. Sci.*, 78 (11) : 957-61..
11. Singh, S.K., N.V.P.R. Ganga Rao, V. Mahajan, Jag Shoran, R. Chatrath, **B.S. Tyagi**, Gyanendra Singh and B. Mishra (2007). Notification of wheat variety DBW 17. *Indian J. Genet.*, 67 (3) : 306.
12. **Tyagi, B.S.**, Jag Shoran, S.K. Singh, M.S. Saharan, J. Kumar, Gyanendra Singh, M. Singh and S. Sharma (2010). Genetic analysis of resistance to Karnal bunt caused by *Neovosia indica* in bread wheat (*Triticum aestivum*). *Indian J. Agric. Sci.* (accepted).
13. **BS Tyagi**, Gyanendra Singh and Jag Shoran (2007). Improved and effective technology of wheat seed storage at farmers' field in eastern India. *Annual Wheat Newsletter*, 53: 38-40. KSU, USA.
14. Rajender Singh, **BS Tyagi**, Geeta Pahwa, Ratan Tiwari and Sindhu Sareen (2009). Molecular marker based detection of Ph1b mutation to increase homoeologous pairing in wheat. *Wheat and Barley Newsletter* (July - December). Vol 3. No.2: 2.
15. Gyanendra Singh, **BS Tyagi**, Ravish Chatrath, Jag Shoran, SK Singh, Divakar Rai and Sarvan Kumar (2006). Identification of genes causing hybrid necrosis in bread wheat. *Crop Improvement*, 33 (1): 16-19.
16. Gyanendra Singh, **BS Tyagi**, GP Singh, Ravish Chatrath and Jag Shoran (2007). Identification of early stage traits as markers for high yielding wheat genotypes under zero tillage conditions of rice-wheat cropping system. *Indian J. Agric. Sciences* 77 (7): 432-37.
17. Gyanendra Singh, DP Singh, Ravish Chatrath, **BS Tyagi**, SK Singh, GP Singh and Jag Shoran (2007). Combating *Helminthosporium* leaf blight in wheat through resistance breeding. *Indian J. Genet*, 67 (3): 293-296.

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19. Gyanendra Singh, **BS Tyagi**, GP Singh, Ravish Chatrath, DP Singh and Jag Shoran (2007). Genetic analysis and association of spot blotch resistance caused by *Bipolaris sorokiniana* with morphological and yield attributes in bread wheat (*Triticum aestivum*). *Indian Journal of Agricultural Sciences*. 78 (11): 957-61.
20. AK Chowdhury, Gyanendra Singh, **BS Tyagi**, PM Bhattacharya and AK Singha Roy (2007). Assessment of wheat cultivars to boron deficiency induced spike sterility and its impact on grain yield under terai region of West Bengal. *Indian Journal of Agricultural Sciences*. 78 (10): 834-7.
21. Singh SK, NVPR Ganga Rao, V Mahajan, Jag Shoran, Ravish Chatrath, **BS Tyagi**, Gyanendra Singh and B Mishra (2007). Notification of a wheat variety DBW 17. *Indian J. Genetics and Plant Breeding*. 67(3): 306.
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25. **BS Tyagi**, S Sareen, Gyanendra Singh and Jag Shoran (2008). Opportunities in wide hybridization for breaking stagnated wheat yield in India. *Journal of Wheat Research*, 2(1): 20-28.
26. Gyanendra Singh, **BS Tyagi** and Jag Shoran (2009). Assessment of wheat genotypes under different soil, tillage and production conditions through participatory varietal selection approach in India. *Annual Wheat Newsletter*, 54: KSU, USA.
27. Randhir Singh, R. Chatrath, SC Tripathi, Gyanendra Singh, **BS Tyagi**, SK Singh, Jag Shoran, Anuj Kumar, Surendra Singh, Divakar Rai and Sarvan Kumar (2008). Impact of Varietal Selection on Varietal Diversification in northern India. *Indian Res. J. Ext. Edu.* 8 (2&3): 14-18.
28. Gyanendra Singh, Anuj Kumar, **Bhudeva Singh Tyagi**, Jag Shoran and SS Singh (2009). Gehoon Avam Jaun Swarnima 2009. Directorate of Wheat Research, Karnal. Pages 80.
29. **BS Tyagi**, Jag Shoran Gyanendra Singh, RK Gupta and SS Singh (2009). *Prospects and opportunities for cultivation of quality durum wheat in India*. Directorate of Wheat Research, Karnal, India. **Research Bulletin No. 25**: pp28
30. Jag Shoran, Gyanendra Singh, SS Singh and **BS Tyagi** (2009). Bharat mein gehoon - Kranti. In: "Gehoon Avam Jaun Swarnima" Editors Gyanendra Singh, Anuj Kumar, BS Tyagi, Jag Shoran and SS Singh. Published by Directorate of Wheat Research, Karnal. Pp 1-16.
31. Jag Shoran, Gyanendra Singh, **BS Tyagi** and SS Singh (2009). Wheat research in India: past present and future. In "Consolidating the productivity gain in wheat-An out look. Editors RK Sharma, Rashmi Aggarwal, Anju Mahendru, Ambrish Sharma and JB Sharma. Indian Agricultural Research Institute, New Delhi. Pp 8-18.
32. Mangal Singh, VK Dwivedi, **B S, Tyagi**, J Kumar, M S Saharan (2009). Generation mean analysis for resistance to Karnal Bunt in wheat (*Triticum aestivum* L.). *Crop Improvement* 36 (2): 14-17.
33. MS Saharan, AK Sharma, **BS Tyagi**, K Pal and SS Singh (2009). Studies on pathogenic variation and management of Fusarium Head Blight (*Fusarium graminearum*) of wheat. *J. Mycol Pl Pathol*. Vol39.No.3: 560-561.

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2. Gyanendra Singh, Anuj Kumar, Bhudeva Singh Tyagi, Jag Shoran and SS Singh (2008). Gehoon Avam Jaun Swarnima. Directorate of Wheat Research, Karnal.
3. Gyanendra Singh, SC Tripathi, **BS Tyagi**, Jag Shoran and S Nagarajan (2002). Promising wheat varieties for eastern and warmer regions of India. Technical Bulletin No. 3. Directorate of Wheat research, Karnal. pp 32.
4. Gyanendra Singh, Jag Shoran, **BS Tyagi**, R Chatrath, SC Tripathi and S Nagarajan (2004). Participatory varietal selection in wheat – an approach to increase the adoption of new technologies. Directorate of Wheat Research, Karnal 132001, Haryana, India. Research Bulletin No. 17: 24 pp

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1. VS Chauhan, Gyanendra Singh and **BS Tyagi** (1996). Wheat Research in India: Accomplishments and Future Prospects. Chapter Contributed for Volume-I (Crop Production) of book series on Indian Agriculture in 2000. (Eds.) Dr. V.K. Patil, MAU, Parbhani, India.
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4. **BS Tyagi**, Jag Shoran, Gyanendra Singh and S Nagarajan (2000). Durum Gehoon Ki Gunvatta Par Anusandhan-Samaya Ki Maang. In Proc. National Symposium on "*Bhartiya Krishi Mein Anusandhan Krantiya*" held at CSSRI. Karnal, (eds.) SK Dubey, RK Singh, DR Sharma and NK Tyagi. Page 174-177.
5. Jag Shoran, **BS Tyagi**, Gyanendra Singh and RK Gupta (2003). Durum improvement for yield and quality traits under drier environments. In "Wheat Technologies for Warmer Areas" (Eds. VS Rao, Gyanendra Singh and SC Misra). Anamaya Publishers, New Delhi, Pp 79-86.
6. Jag Shoran, Gyanendra Singh and **BS Tyagi** (2009). Bharat mein gehun anusandhan dwara khadya vyavastha ka sudradhikarn. In Smarika of 5th Rashtriya vgyanik sangosthi on "Ekeesvee shatabdi meni dairy vgyan aur krishi ki dasa avam dishayein" held during 21-22 January 2009. Published by National Dairy Research Institute Karnal. Pp 101-115.

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5. **BS Tyagi**, Jag Shoran, Gyanendra Singh and B Mishra (2008). Utilizing diverse gene pool from synthetic hexaploids for improving bread wheat (*Triticum aestivum* L). Abstract of the paper accepted for presentation in 11th International Wheat Genetics Symposium to be held during 24-29 August 2008 at Brisbane Australia.

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16. M. K. Singh, Gyanendra Singh, M. S. Saharan, S. S. Singh, **B. S. Tyagi**, Ajay Verma and Devmani Bind (2011). Genetic analysis for yield components traits in bread wheat (*Triticum aestivum* L.). 3rd International Group meeting on Wheat Productivity under Changing Climate, UAS, Dharwad from 9-12 Feb, 2011 Page No. 43.
17. M K Singh*, Gyanendra Singh, **B S Tyagi**, Ashish Ojha, Devmani Bind (2012). Impact of Agriculture Biodiversity and crop Improvement in India. "National Seminar Cum Workshop on Study of Biodiversity in Today's Perspective" held at Dyal Singh College, Karnal (Haryana), 10-12 March, 2012 Page No. 36.
18. M K Singh*, Gyanendra Singh, **B S Tyagi** and Ashish Ojha (2012). Research on wheat improvement for waterlogging and element toxicities in India and Australia. "National conference on climate change and agriculture" held at Ch. Chhotu Ram (P.G.) College, Muzaffarnagar (UP), India.
19. M. K. Singh, Gyanendra Singh, M. S. Saharan, **B. S. Tyagi**, N. Kulshreshtha, N. P. S. Yaduvanshi, B. N. Singh, Devmani Bind, Ashish Ojha, Ajay Verma, Indu Sharma and T.L. Setter (2012). Characterization of diverse germplasm for waterlogging tolerance in bread wheat (*Triticum aestivum* L.). National Seminar, on "Plant Genetic Research for Eastern and North Eastern India", at Umiam- Meghalaya, 11-12 May, Page No. 193-194.