

**PUBLICATIONS OF PROF. DR. TAYYAB HSUNAIN**

<b>S. No</b>	<b>Publications</b>	<b>Impact Factor</b>
1.	Rech, E. L., Gold, T. J., <b>Husnain, T.</b> , Vainstein, MH., Jones, B., Hammatt, N., Mulligan, B. J. and Davey, MR (1989). Expression of a chimaeric kanamycin resistance gene introduced into the wild soybean <i>Glycine canescens</i> using a cointegrate Ri plasmid vector. <i>Plant Cell Reports</i> <b>8</b> : 33-36.	3.071
2.	Golds, T.J., Lee, J. Y., <b>Husnain, T.</b> , Ghose, TK. And Davey, MR (1991). Agrobacterium rhizogenes mediated transformation of the forage legumes <i>Medicago sativa</i> and <i>Onobrychis viciifolia</i> . <i>J. Expt. Bot.</i> <b>42 (242)</b> : 1147 – 1157.	5.677
3.	Islam, R., T. Malik, <b>Husnain, T.</b> , and Riazuddin S (1994). Strain and cultivar specific in the Agrobacterium-chickpea interaction. <i>Plant Cell Reports</i> <b>13</b> : 561-563.	3.071
4.	Riazuddin, S. <b>Husnain, T.</b> , Khan, E. and Khanum, F (1995). Insect resistant transgenic Basmati rice. <i>Rice Biotechnology Quarterly</i> , <b>23</b> : 7-8.	0
5.	<b>Husnain, T.</b> , Malik, T., Riazuddin, S. and Gordon. MP (1997). Studies on the expression of marker genes in chickpea. <i>Plant Cell, Tissue and Organ Culture</i> <b>49</b> : 7-16.	2.125
6.	<b>Husnain, T.</b> , Khanum, F., Fatima, T., Khan, E., Riazuddin, S. and Altosaar, I (1998). Transformation of indica rice with synthetic Cry1AI Gene. <i>Biologia</i> <b>44(1&amp;2)</b> : 180-192.	0.827
7.	Khanum, F., <b>Husnain, T.</b> and Riazuddin, S (1998). Effect of age of seedling and phytohormones on micropropagation of indica rice ( <i>Oryza sativa</i> L.) from meristem culture. <i>J. Plant Biol.</i> <b>41(2)</b> : 93-96.	1.671
8.	Maqbool, S., <b>Husnain, T.</b> , Riazuddin, S., Masson, L. and Christou, P (1998). Effective control of yellow stem borer and rice leaf-folder in transgenic rice indica varieties Basmati 370 and M7 using the novel delta-endotoxin cry2A <i>Bacillus thuringiensis</i> gene. <i>Mol. Breed.</i> <b>4(6)</b> : 501-507.	2.108
9.	Chaudhry, B. Yasmeen, A., <b>Husnain, T.</b> and Riazuddin, S (1999). Mini-scale genomic DNA extraction from cotton. <i>Plant Molecular Biology Reporter</i> <b>(17)</b> : 280-285.	2.10
10.	Majeed, A, <b>Husnain, T.</b> and Riazuddin, S (2000). Transformation of Virus Resistant Genotype of <i>Gossypium hirsutum</i> L., with Pesticidal Gene. <i>Plant Biotech</i> <b>17(2)</b> : 105-110.	6.09
11.	<b>Husnain T.</b> , Asad, J., Maqbool, S.B., Datta, S.K, Riazuddin, S (2002). Variability in expression of insecticidal Cry1Ab gene in Indica Basmati rice. <i>Euphytica</i> <b>128</b> : 121-128.	1.618
12.	<a href="#">Fatima, T.</a> , <a href="#">Jan, A.</a> , <a href="#">Husnain, T</a> and <a href="#">Riazuddin S</a> (2002).Initiation and cryopreservation of cell suspension of rice basmati varieties Pakistan. <i>J Biol Sci.</i> 679-682.	3.982
13.	Ahmed Z.M, Morell, R.J., Riazuddin, S., Gropman, A., Shaukat, S., Ahmad, A.A., Mohiddin, S.A., Fananapazir, L., Caruso, R.C., <b>Husnain, T.</b> , Khan, S.N., Riazuddin, S., Griffith, A.J., Friedman, TB and Wilcox, ER (2003). Mutations of MYO6 are associated with recessive deafness DFNB37. <i>Am J Hum Genet</i> <b>72(5)</b> : 1315-1322.	10.794
14.	Rasheed, S., Fatima, T., Bashir, K., Husnain, T and Riazuddin, S (2003). Agronomical and Physicochemical Characterization of somaclonal variants in Indica basmati rice. <i>Pak. Journal of Biological Sciences</i> <b>6(9)</b> : 844-848.	0
15.	Bashir, K., <b>Husnain, T.</b> , Fatima, T., Latif, Z., Riaz, N., Mehdi, SA. And Riazuddin, S (2004) Field evaluation and Risk Assessment of transgenic indica basmati Rice. <i>Molecular Breeding</i> <b>13</b> : 301-312.	2.108
16.	Bashir, K., <b>Husnain, T.</b> and Riazuddin, S (2004) Response of transgenic rice expressing two Bt genes to nontarget insects. <i>IRRN</i> <b>29(2)</b> : 15-16.	0
17.	Rashid, B. <b>Husnain, T</b> and Riazuddin, S (2004) In vitro shoot tip culture of cotton ( <i>Gossypium hirsutum</i> L). <i>Pak. J. Botany</i> <b>36 (4)</b> : 817-823.	0.822
18.	Hussain, SS., <b>Husnain, T</b> and <b>Riazuddin., S</b> (2004). Somatic Embryo Germination and plant Development from immature Zygotic Embryos in Cotton. <i>Pakistan J. of Biological Sciences.</i> <b>7(11)</b> . 1946-1949	0
19.	<a href="#">Bashir, K.</a> , <a href="#">Rafiq, M.</a> , Fatima, T., Husnain T and Riazuddin S <a href="#">Hygromycin based selection of transformants in a local inbred line of Zea mays (L.)</a> . <i>Pakistan J. of Biological Sciences.</i> <b>7(3)</b> : 318-323.	0
20.	Bashir, K., <b>Husnain. T.</b> , Fatima, T., Latif, Z., Riaz, N. and Riazuddin, S (2005) Novel Indica Basmati Line (B-370) expressing two unrelated genes of <i>Bacillus thuringiensis</i> is highly resistant to two lepidopteran insects in the field. <i>Crop Protection</i> <b>24(10)</b> : 870-879.	1.493
21.	Rafiq, M., Fatima T., <b>Husnain, T.</b> , Bashir, K. Khan, M.A, and Riazuddin, S (2005). Regeneration and	1.244

	transformation of an elite inbred line of maize (zea mays l.), with a gene from Bacillus thuringiensis. <i>South African J. Botany</i> . 72: 460-466.	
22.	Riazuddin, SA., Zulfiqar, F., Zhang, Q., Sergeev, YV., Zaheeruddin, AQ., <b>Husnain, T.</b> , Caruso, R., Riazuddin, S., Sieving, P and Hejtmancik, J. (2005). Autosomal recessive Retinitis pigmentosa is associated with mutations in RP1 in consanguineous Pakistani families. <i>Invest. Ophthalmol. Vis. Sci.</i> 46 (7): 2264-2270.	3.427
23.	Rasheed, S., Fatima, T., <b>Husnain, T.</b> , Bashir K and Riazuddin, S. (2005). Rapd characterization of somaclonal variation in indica basmati rice. <i>Pak. J. Bot.</i> 37(2): 249-262.	0.822
24.	<a href="#">Rafiq, M., Fatima, T., Husnain, T., Bashir, T and Riazuddin, S. (2005). Effect of Different Media on Callus Formation and Regeneration of Different Genotypes of Maize (Zea mays L.).</a> <i>Plant Tissue Cult.</i> 15(1): 57-65	0
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26.	Rao,AQ., Hussain, SS., Shahzad, MS., Bokhari, S., Abbas, Y., Raza, MH., Rakha, A., Majeed, A., Shahid, AA., Saleem, Z., <b>Husnain, T</b> and Riazuddin, S (2006). Somatic Embryogenesis in wild relatives of cotton ( <i>Gossypium Spp</i> ) <i>J. Zhejiang University Science B</i> 7(4): 291-298.	1.303
27.	Riazuddin, SA., Zulfiqar, F., Zhang, Q., Yao, W., Li, S., Jiao, X., Shahzadi, A., Amer, M., Iqbal, M., <b>Husnain, T.</b> , Sieving, PA., Riazuddin, S and Hejtmancik, JF (2006). Mutations in the gene encoding the alpha-subunit of rod phosphodiesterase in consanguineous Pakistani families. <i>Mol Vis.</i> 12:1283-91.	2.110
28.	Rahman, M., Rashid, H., Shahid, A. A., Bashir, K., <b>Husnain, T.</b> and Riazuddin, S (2007). Insect resistance and risk assessment studies of advanced generations of Basmati rice expressing two genes of Bacillus thuringiensis. <i>Electro. J. Biotech.</i> 10(2): 240-251.	1.403
29.	Maqbool, A., Zahur, M., Irfan, M., Qaiser, U., Rashid, B., <b>Husnain, T.</b> and Riazuddin, S (2007). Identification, characterization and expression of drought related alpha-crystalline heat shock protein gene (GHSP26) from desi cotton. <i>Crop Sci.</i> , 47(6): 2437-2444.	1.575
30.	Khan, SY., Riazuddin, S., Tariq, M., Anwar, S., Shabbir, MI., Riazuddin, SA., Khan, SN., <b>Husnain, T.</b> , Ahmed, ZM., Friedman, TB and Riazuddin, S (2007). Autosomal recessive nonsyndromic deafness locus <i>DFNB63</i> at chromosome 11q13.2-q13.3. <i>Hum. Genet.</i> 120(6): 789-793.	5.138
31.	Khan, SY., Ahmed, Z.M., Shabbir, M.I., Kitajiri, S., Kalsoom, S., Tasneem, S., Riazuddin, S., Khan, S.N., Friedman, T.B., Tariq, M., Riazuddin, A., <b>Husnain, T</b> and Riazuddin, S (2007). Mutations in RDX encoding radixin cause nonsyndromic hearing loss at the DFNB24 locus. <i>Hum. Mutat.</i> 28(5): 417-423.	5.089
32.	Kitajiri, SI., McNamara, R., Makishima, T., <b>Husnain, T.</b> , Zafar, AU., Kittles, RA., Ahmed, Z.M., Friedman, TB., Riazuddin, S and Griffith, AJ (2007). Identities, frequencies and origins of TMC1 mutations causing DFNB7/B11 deafness in Pakistan. <i>Clin. Genet.</i> 72:546-550.	3.892
33.	Nal, N., Ahmed, Z.M., Erkal, E., Alper, OM., Lu'leci, G., Dinc, O., Waryah, AM., Ain, Q., Tasneem, S., <b>Husnain, T.</b> , Chattaraj, P., Riazuddin, S., Boger, E., Ghosh, M., Kabra, M., Riazuddin, S., Morell, R.J and Friedman, TB (2007). Mutational spectrum of MYO15A: The large N-terminal extension of Myosin XVA is required for hearing. <i>Hum. Mutat.</i> , 28(10): 1014-1019.	5.089
34.	Butt, T., Yao. W., Kaul. H., Xiaodong. J., Gradstein. L., Zhang. Y., <b>Husnain, T.</b> , Riazuddin, S., Hejtmancik . F. J and Riazuddin. SA (2007) Localization of autosomal recessive congenital cataracts in consanguineous Pakistani families to a new locus on chromosome 1p. <i>Mol. Vis.</i> , 13:1635-1640.	2.110
35.	Ain, Q., Nazli, S., Riazuddin, S., Jaleel, AU., Riazuddin, SA., Zafar, AU., Khan, SN., <b>Husnain, T.</b> , Griffith, AJ., Ahmad, ZM., Friedman, TB and Riazuddin, S (2007). The autosomal recessive nonsyndromic deafness locus DFNB72 is located on chromosome 19p13.3. <i>Hum. Genet.</i> ,122:445-450.	5.138
36.	<a href="#">Hussain, SS., Husnain, T and Riazuddin, S(2007) Sonication assisted Agrobacterium mediated transformation (SAAT): An alternative method for cotton transformation.</a> <i>Pakistan Journal of Botany</i> ,39(1): 223-230.	0.822
37.	Maqbool, A., Zahur, M., Irfan, Younas, M., Barozai, K, Rashid, B., <b>Husnain, T</b> and Riazuddin, S (2008) Identification and Expression of Six Drought- Responsive Transcripts through Differential Display in Desi Cotton ( <i>Gossypium arboreum</i> ). <i>Mol. Biol.</i> 42(4): 559-565.	0.612
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	(2008) Functional analysis of cotton small heat shock protein promoter region in response to abiotic stresses in tobacco using Agrobacterium-mediated transient assay. <i>Mol Biol Rep.</i> <b>36</b> : 1915-1921.	
40.	Rashid, B., Saleem, Z., <b>Husnain, T.</b> , Riazuddin, S (2008). Transformation and Inheritance of Bt Genes in <i>Gossypium hirsutum</i> . <i>J. Plant Biology.</i> <b>51(4)</b> : 248-254.	1.671
41.	Barozai, KMY., Irfan, M., Yousaf, R., Ali, I., Qaisar, U., Maqbool, A., Zahoor, M., Rashid, B., <b>Husnain, T</b> and Raizuddin, S. (2008). Identification of micro-RNAs in cotton. <i>Plant Physiol Biochem.</i> <b>46</b> : 739-751.	2.928
42.	Zahur, M., Maqbool, A., Irfan, M., Barozai, MYK., Rashid, B., <b>Husnain, T</b> and Riazuddin, S (2008). Isolation and Functional Analysis of Cotton Universal Stress Protein Promoter in Response to Phytohormones and Abiotic Stresses. <i>Mol. Biol.</i> <b>43(4)</b> : 578-585.	0.612
43.	Shahid, AA., <b>Husnain, T</b> and Riazuddin, S (2008). Ascochyta blight of chickpea: Production of phytotoxins and disease management. <i>Biotechnol. Adv.</i> <b>26</b> : 511-515.	9.848
44.	<a href="#">Younas, M.</a> , <a href="#">Husnain, T</a> and <a href="#">Anjum T</a> (2008) <a href="#">Baseline susceptibility of red flour beetle (Tribolium castaneum Herbst) to Bacillus thuringiensis toxins.</a> <i>Journal of sustainable Agriculture.</i> <b>32(1)</b> , 181-190.	0.926
45.	Maqbool, A., Zahur, M., <b>Husnain, T</b> and Riazuddin, S (2009). GUSP1 and GUSP2, Two drought-responsive gene in <i>Gossypium arboreum</i> have homology to universal stress protein. <i>Plant Mol Biol Rep.</i> <b>27</b> :109-114.	1.698
46.	Rao A.Q, Bakhsh A, Kiani S, Shahzad K , Shahid A A, <b>Husnain T</b> and Riazuddin, S (2009) The Myth of Plant Transformation. <i>Biotechnology Advance</i> <b>27</b> :753-763.	9.848
47.	Bakhsh, A., Rao, A.Q., Ahmed, A. A., <b>Husnain, T.</b> and Riazuddin S (2009). Insect Resistance and Risk assessment studies in Advance lines of Bt Cotton harboring CryIac and CryIIA genes. <i>American-Eurasian J. Agric. &amp; Environ. Sci.</i> <b>6(1)</b> : 01-11.	0
48.	Hussain, SS., Rao, AQ., <b>Husnain, T</b> and Riazuddin, S (2009). Cotton somatic embryo morphology affects its conversion to plant. <i>Biologia. Plantarum.</i> <b>53(2)</b> : 307-311.	1.665
49.	Rashid, B., <b>Husnain, T</b> and Riazuddin, S (2010). Rapid <i>in vitro</i> root induction in transgenic cotton shoots. <i>Plant Tissue Cult. &amp; Biotech.</i> <b>19(2)</b> : 247-251.	0
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51.	Choi BY., Ahmed, Z., M., Bhinder, MA., Shahzad, M., <b>Husnain, T.</b> , Riazuddin, S., Griffith AJ and Friedman, TB (2009).Identities and frequencies of mutations of the otoferlin gene (OTOF) causing DFNB9 deafness in Pakistan. <i>Clinical Genetics.</i> <b>75</b> : 237-243.	3.892
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53.	Rao A.Q, Bakhsh A, Riazuddin, S and <b>Husnain T</b> (2010) Phytochrome B mRNA expression enhances Biomass yield and physiology of cotton plants. <i>African journal of Biotech.</i> <b>10(10)</b> : 1818-1826.	0
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55.	Rahman, M., Noreen, S., <b>Husnain, T</b> and Riazuddin, S. (2010). A fast and efficient method to determine the position of alien genes in transgenic plants. <i>Emirates J. Food &amp; Agri.</i> <b>22(3)</b> : 223-231.	0.623
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58.	Qaisar, U., Irfan, M., Meqbool, A., Zahoor, M., Khan, M.Y., Rashid, B., Riazuddin, S., <b>Husnain, T.</b> (2010). Identification, sequencing and characterization of a stress induced homologue of fructose bisphosphate aldolase from cotton. <i>Can. J. Plant Sci.</i> <b>90(1)</b> : 41-48.	0.919
59.	Jahangir, GA., Nasir, IA., <b>Husnain T.</b> (2010). Various Hormonal Supplementations Activate Sugarcane Regeneration <i>Invitro.</i> <i>J. Agri. Sci.</i> <b>2(4)</b> : 231-237	1.103
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63.	Nasir, IA., <b>Husnain T.</b> Tabassum, B., Latif, Z., Aslam M and Haider, MS. (2010). Strategies to control potato virus Y under in vitro conditions. <i>Pak J. Phytopathol.</i> <b>22(1)</b> : 63-70.	0
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66.	Sabir. N., <u>Riazuddin. S.A., Kaul. H., Iqbal. F., Nasir. I.A., Zafar. A.U., Qazi Z.A., Butt N. H., Khan. S.N., Husnain. T., Hejtmancik J. F., Riazuddin S.</u> (2010). <u>Mapping of a new locus associated with autosomal recessive congenital cataract to chromosome 3q.</u> <i>Molecular vision</i> , 16: 2634-8.	2.110
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69.	Kaul, H., Riazuddin, SA., Shahid, M., Kousar, S., Butt, NH., Zafar, AU., Khan, SN., <b>Husnain, T.</b> , Akram, J., Hejtmancik, JF and Riazuddin, S. (2010). Autosomal recessive congenital cataract linked to <i>EPHA2</i> in a consanguineous Pakistani family. <i>Molecular Vision.</i> <b>16</b> :511-517.	2.110
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71.	Kaul, H., Riazuddin, A., Qazi, ZA., Nasir, IA., Zafar, AU., Khan, SN., <b>Husnain, T.</b> , Akram, J., Hejtmancik, JF and Riazuddin, S. (2010). Ectopia Lentis in a consanguineous Pakistani family and a novel locus on chromosome 8q. <i>Arch Ophthalmol.</i> <b>128(8)</b> : 1046-1049.	4.399
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	<b>TOTAL Impact Factor:</b>	<b>386.81</b>