



Resume of Dr. Partha Sarathi Biswas

Name	Partha Sarathi Biswas		Date of Birth	
			27 December 1971	
Address	Principal Scientific Officer, Plant Breeding Division, Bangladesh Rice Research Institute Gazipur-1701, Bangladesh; E-mail: psbiswasbrrri@yahoo.com , Cell Ph: +8801552480813			
Education	School		Major	Thesis
	B Sc Agriculture	Bangladesh Agricultural University	Agriculture	-
	M S	Bangladesh Agricultural University	Genetics and Plant Breeding	Heterosis and combining ability analysis in rice using cytoplasmic genetic male sterile lines
Ph. D	Bangladesh Agricultural University (Thesis Research at International Rice Research Institute, Philippines)	Genetics and Plant Breeding	Introgression of Beta-Carotene locus into a Popular Rice Variety of Bangladesh through Marker Assisted Backcrossing	
Experience	Company/Institute	Duration	Title	Responsibility
	Patuakhali Science and Technology University	1997.11 – 1998.08	lecturer	Deliver lecture on Entomology
	Bangladesh Rice Research Institute	1998.08 - 2006.06	Scientific Officer (Plant Breeder)	<ul style="list-style-type: none"> • Development of rice varieties with enhanced nutritional quality (Fe, Zn) • Development of rice varieties for favorable irrigated ecosystem • Development of cold tolerant rice
	Bangladesh Rice Research Institute	2006.06- 2008.02	Senior Scientific Officer (Senior Plant Breeder)	<ul style="list-style-type: none"> • Development of rice varieties with enhanced nutritional quality (Fe and Zn) • Development of rice varieties for favorable irrigated ecosystem • Development of cold tolerant rice • Development of Arsenic tolerant rice • Development of rice varieties resistant to major diseases (BB, Blast, RTV)
	International Rice Research Institute	2008.02- 2011.05	Ph D Thesis Research Scholar	<ul style="list-style-type: none"> • Marker Assisted Backcross breeding for the development of BRRi dhan29-Golden rice • Evaluation of BRRi dhan29-Golden rice backcross breeding lines under confined field trial at IRRI

	Bangladesh Rice Research Institute	2011.05-2012.04	Senior Scientific Officer (Senior Plant Breeder)	<ul style="list-style-type: none"> • Development of rice varieties with enhanced nutritional quality (Fe and Zn) through conventional breeding • Development of cold tolerant rice • Development of rice varieties for favorable irrigated ecosystem • Development of Arsenic tolerant rice • Development of rice varieties resistant to major diseases (BB, Blast, RTV) 	
	Bangladesh Rice Research Institute	2012.04-as of now	Principal Scientific Officer (Principal Plant Breeder)	<ul style="list-style-type: none"> • Development of rice varieties with enhanced nutritional quality (Fe and Zn) • Development and evaluation of high beta-carotene rice (Golden rice) • Development of cold tolerant rice • Development of rice varieties for favorable irrigated ecosystem • Development of Arsenic tolerant rice 	
Major Achievements	<ul style="list-style-type: none"> • Major contribution in the development of favorable boro rice varieties, namely BRRi dhan59 and BRRi dhan60 as Principal Investigator. Also, involvement in the development of BRRi dhan45 and BRRi dhan55 as co-investigator. • Development of BRRi dhan62, a short duration and zinc enriched T. Aman rice variety as Co-Principal Investigator. <ul style="list-style-type: none"> ○ BRRi dhan62 is the first zinc enriched rice variety released ever in the world. This variety has 19.6 mg/kg zinc in polished grain which is much higher than other high yielding rice varieties. ○ This zinc enriched rice may be used as an alternative approach along with other existing approaches in reducing zinc deficiency among children and women of poor community. ○ It is the shortest duration T. Aman rice variety released ever in Bangladesh. This variety is suitable for the areas where farmers want to grow early potato or vegetables or <i>rabi</i> crop immediate after the harvest of T. Aman rice to earn a bunch of fresh money without delaying boro rice crop in the same piece of land. • Development of BRRi dha29 Golden rice introgression lines enriched with high beta carotene, the precursor of vitamin A, using molecular marker technology • Development and standardization of simple protocol for in house screening of rice for seedling stage cold tolerance • Development of breeding and mapping population of cold tolerant <i>indica</i> rice 				
Language		Reading	Writing	Speaking	
	English	A	A	B	A: Fluent B: Communication possible even for technical knowledge C: Communication possible for daily life D: Communication with Dictionary
Overseas training	Name of training		Duration/ year	Organization/Country	
	Institutional Management		12 days, 2000	AIT, Thailand	
	Planning Rice Breeding Program for Impact		21 days, 2004	IRRI, Philippines	
	Bioinformatics Workshop for Crop Research		5 days, 2008	IRRI, Philippines	
	Introduction to R Course		2 days, 2009	IRRI, Philippines	
	Basic Experimental Designs and Data Analysis using Crop Stat		5 days, 2010	IRRI, Philippines	
	SNP Data Analysis Training Course		4 days, 2011	IRRI, Philippines	

	Cold tolerant rice breeding and farm machineries	14 days, 2012	KOICA-KDS, Korea
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Publications	<p>22 Research Article in reputed national and international journal:</p> <ol style="list-style-type: none"> 1. MR Islam^{1*}, M Anisuzzaman¹, H Khatun¹, N Sharma¹, MZ Islam², A Akter¹ and Partha S. Biswas. 2014. AMMI analysis of yield performance and stability of rice genotypes across different haor areas. <i>Eco-friendly Agril. J.</i> 7(02): 20-24 2. M Khatun, PS Biswas, MA Hossain, MK Hossain and H Begum. 2010. Genetic variability, character association and path coefficient analysis in rice genotypes. <i>Intl. J. BioRes.</i> 9 (3): 36-40. 3. P S Biswas, M J Hassan and A W Julfikar. 2008. Combining ability and heterosis in panicle traits of rice hybrids involving cytoplasmic male sterility system. <i>Bangladesh J. Pl. Breed. Genet.</i> 21(2):21-26. 4. P S Biswas, M K Hossain, M A Hossain and M A Salam. 2008. Genetic behaviour of grain Fe and Zn content in rice. <i>Intl. J. BioRes.</i>, 4 (1): 43-46. 5. P S Biswas and M Enamul Haque. 2007. Gene action of some agronomic traits in rice (<i>Oryza sativa</i> L.). <i>Bangladesh J. Pl. Breed. Genet.</i> 20 (2): 31-36. 6. P S Biswas, A W Julfikar and M Wazuddin. 2007. Combining Ability of CMS and Restorers in Rice (<i>O. sativa</i> L.). <i>Bangladesh J.Pl. Breed. Genet.</i>20 (1):13-18. 7. P S Biswas, Umakanta Sarker, M A R Bhuiyan and S Khatun. 2006. Genetic divergence in cold tolerant irrigated rice. <i>The Agriculturist</i>, 4(1&2):15-20. 8. P S Biswas, A W Julfikar and M Wazuddin. 2007. Heterosis in relation to genetic basis of physiological traits in rice (<i>O. sativa</i> L.) involving CMS system. <i>Bangladesh J. Agric.</i> 32 (2): 29-39. 9. P S Biswas and M Enamul Haque. 2007. Combining Ability and Heterosis in Indica Rice. <i>Bangladesh Rice J.</i> 12(1&2):99-104. 10. P S Biswas and A W Julfikar. 2006. Heterosis in relation to combining ability in rice involving cytoplasmic genetic male sterility system. <i>SAARC Jn. of Agri.</i>, 4: 33-43 11. P. S. Biswas, M.A. Salam, M.A. Rahman, B. Prasad and B.K.Sarker. 2001. Improved deepwater rice (<i>Oryza sativa</i> L) genotypes for shallow flooding. <i>Bangladesh J. Pl. Breed. Genet.</i> 14(1):37-41. 12. P. S. Biswas, Bishwajit Prasad and S.B.A Dewan.2000. Variability, and character association and path coefficient analysis in rice (<i>Oryza sativa</i> L). <i>Bangladesh J. Pl. Breed. Genet.</i> 13(1):14-25. 13. P. S. Biswas, B. Prasad and M.S. Hossain. 1999. Yield stability of some rice genotypes. <i>Journal of Agricultural Education and Technology</i>.2 (1): 37-40. 14. S Khatun, P S Biswas, M A Rahman, M R Islam and M A Salam. 2008. BRRI dhan42 and BRRI dhan43: two upland rice varieties for drought prone environment. <i>Intl. J. BioRes.</i> 4(5): 48-51. 15. K M Iftekharuddaula, M A Newaz, P S Biswas and M K Bashar. 2008. Genetic components of grain characters in rice (<i>Oryza sativa</i> L.). <i>Bangladesh J. Pl. Breed. Genet.</i> 21(1):36-41. 16. M H Kabir, M. Hoque, M. H. S. Hawlader, P. S. Biswas and B. K. Sarker.2007. Farmers participatory deepwater rice development. <i>Bangladesh Rice Journal.</i> 12(1&2): 75-78. 17. M.R. Islam, M.A. Salam, M.A.R. Bhuiyan and P S Biswas. 2006. Combining ability analysis in fine grain rice. <i>Bangladesh J.Pl. Breed. Genet.</i>19 (2): 49-52. 18. M.R.Islam, M.A.B.Faruquei, M.A.R. Bhuiyan, P.S. Biswas and M.A.Salam.2004. Genetic Diversity in Irrigated Rice. <i>Pakistan J. Bio.Sci.</i> 7(2):226-29. 19. A.S.M. Masuduzzaman, P.K.Saha Ray, B. Prasad, P.S. Biswas and M.A.Khaleque Mian. 2003. Evaluation of tolerance to salinity in rice. <i>Bangladesh J.Pl. Breed. Genet.</i>16(1):45-52. 20. Umakanta Sarker, P.S.Biswas, B. Prasad and M. A. Khaleque Mian.2002. Heterosis and genetic analysis in rice hybrids. <i>Pakistan J. Bio. Sci.</i> 5(1):1-5. 21. K Akter, M.S. Ahmed, M.K. Bashar, P.S.Biswas and K.M. Iftekharuddaula. 2007. Genetic diversity in Irrigated Rice. <i>Bangladesh Rice J.</i> 12 (1 & 2): 79-83. 		

	<p>22. Umakanta Saker, P.S. Biswas, B. Prasad and M. A. Khaleque Mian.2001. Correlated response, relative selection efficiency and path analysis in cold tolerant rice. Bangladesh J, Plant Breed. Genet. 14(2):33-36.</p> <p>23. B. Prasad, P.S.Biswas and M. M. Haque. 2001. Genotype-environment interaction in irrigated rice (<i>Oryza sativa</i> L). Online J. Bio.Sci.1 (7):571-572.</p> <p>24. B Prasad, P.S.Biswas and A.K.Patwary. 2001. Genetic variability and selection criteria in fine rice. Pakistan J.Bio.Sci. 4 (10):1188-90.</p>
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