

Principal Scientific Officer  
Plant Breeding Division  
Bangladesh Rice Research Institute  
Gazipur 1701, Bangladesh  
Mobile: +8801758479150  
e-mail: [akhlas08@gmail.com](mailto:akhlas08@gmail.com)  
[rakhlasur@yahoo.com](mailto:rakhlasur@yahoo.com)

- Field of Specialization : Plant Breeding, Molecular Breeding (QTL mapping, QTL pyramiding and marker-assisted backcrossing), Genetics, Varietal Development, Molecular Marker Application (SNPs and SSRs), Biofortification Breeding, Physiology of Abiotic Stresses and Farmer Participatory Approach
- Gender : Male
- Permanent Address : House No. 211 Dholadia  
Upazila: Mymensingh Sadar  
District: Mymensingh-2200  
Bangladesh
- Date of birth: : February 09, 1972
- Nationality : Bangladeshi
- Marital Status : Married, two daughters (>9.0 and 5.5 years old)

### Education

Post-doctoral Fellow-Varietal Specialist, IRRI, Philippines from February 2013-February 2015  
PhD in Genetics and Plant Breeding, Bangladesh Agricultural University (BAU), Mymensingh (Research work done at IRRI, Philippines from May 8, 2006-May 20, 2010), 2011  
MS in Genetics and Plant Breeding, BAU, 1999  
B.Sc. in Agriculture, BAU, 1997

### Dissertations

**PhD:** Marker-assisted backcrossing of *Saltol*, discovery of additional quantitative trait loci and assessment of allelic variability in *Saltol* in rice germplasm (Research Advisor: Dr. Abdelbagi M. Ismail)  
**MS:** Phenotypic variability and karyotype analysis in tomato (*Lycopersicon esculentum* Mill.)

### Awards and Honors

International Rice Research Institute Post-doctoral Fellowship, February 2013-February 2015  
IRRI Fellowship awardee in PhD 2006 (May 2006-May 2010)  
Bangladesh Agricultural University (BAU) Academic Achievement Scholarship, 1998-1999  
BAU Academic Achievement Scholarship 1990-1993

## Professional Training

### (a) National

Organization	Year	Duration		Name of program
		Months	Days	
BIRRI*	1999	2	-	Rice Production, Communication and Office Management
BIRRI	1999	-	4	Workshop-cum-Training in Rice Breeding & Hybrid Rice Development ( TCTTI Project)
BIRRI	2003	-	5	Introduction Course on Molecular Biology
Agriculture Information Service (AIS)	2001	-	2	Technique of Agricultural Technology Transfer through Mass Media
BARD, Comilla	2001	3	15	Foundation training course for NARS scientists
BIRRI-HAAS** China	2001	3	5	Hybrid Rice Technology
BIRRI	2001	-	5	Breeder Seed Production

\*Bangladesh Rice Research Institute, \*\*Hunan Academy of Agricultural Sciences

### (b) International

Country	Year	Duration		Name of program
		Months	Days	
IRRI Philippines	2002	-	15	Planning Rice Breeding for Impact
Nepal (organized by IRRI-PETTRA)	2003	-	3	Research Management Training Workshop
IRRI Philippines	2005	-	7	Workshop cum training on Advances in Marker Assisted Selection
IRRI Philippines	2007	-	5	Basic Experimental Design and Data Analysis Course
IRRI Philippines	2007	-	3	Analysis of Mixed Models Using CropStat
IRRI Philippines	2007	-	5	Scientific Writing & Presentation Skills
IRRI Philippines	2008	-	5	Bioinformatics Workshop for Crop Researcher
IRRI-BIRRI- CURE-IFAD	2012	-	1	Training on Methodologies in Data Collection and Analysis for Adoption Study on BIRRI dhan47
IRRI Philippines	2013	-	3	New Employee Orientation Program
IRRI Philippines	2014	-	1	Management Intensive Workshop (Manager's Workshop)
IRRI Philippines	2014	-	3	Proposal Writing Workshop
IRRI Philippines	2015	-	3	Preparing for Leadership Programme/ Workshop

### Professional/Research (Work) experience

Name of Organization(s)	Position	Duration		Duties & Responsibilities
		From	To	

Plant Breeding, Genetics and Biotechnology Division, duty stations included IRRI Philippines and IRRI Myanmar Office, Yangon	Post-doctoral Fellow - Varietal Specialist and *Principal Scientist-Plant Breeding, BRRRI	02 February 2013	Present	Coordinated the evaluation of high yielding, salt and submergence tolerant genotypes through Participatory Varietal Selection (PVS mother & baby trials) in the lower regions of Ayeyarwady Delta and liaison with IRRI and NARES in Myanmar for germplasm exchange, evaluation and training, QTL mapping, rice varietal development-rainfed lowland for South East Asia, population improvement, biofortification breeding and molecular breeding for abiotic-biotic stresses tolerance (MBAST).
Plant Breeding Division, BRRRI Gazipur	Senior Scientist-Plant Breeding	31 March 2011	1 February 2013	Led the development of salt tolerant variety, premium quality rice variety, upland <i>Aus</i> rice, Pyramiding of <i>Saltol</i> and <i>Sub1</i> locus into BRRRI dhan49 through marker-assisted selection; conducted PVS, Resistance Breeding and collaborative research (STRASA, CPWF & CURE) with IRRI
Plant Breeding Division, BRRRI Regional Station, Rangpur	Senior Scientist-Plant Breeding	21 May 2010	30 March 2011	Research planning and management, designing, implementation and monitoring of research program on rice breeding, breeder seed production and evaluation of yield and adaptive trials, and report writing, staff management
IRRI Philippines	Ph.D. Research Scholar (Doctoral Research) and Senior Scientist, BRRRI	8 May 2006	20 May 2010	<ul style="list-style-type: none"> <li>➤ Introgression of <i>Saltol</i> locus into two mega varieties (BR11 and BRRRI dhan28) through marker-assisted backcrossing (MABC)</li> <li>➤ Physiological and molecular characterization (SNPs, SSRs) of rice germplasm for salt tolerance, genetic diversity and QTL mapping</li> <li>➤ Application of high throughput SNP platform and SSR in MABC and genetic diversity analysis</li> </ul>
Plant Breeding Division, BRRRI, Gazipur	Scientist-Plant Breeding	17 May 2002	7 May 2006	Coordinating and managing research project, development of salt tolerant rice variety, premium quality rice variety, upland rice, participatory varietal selection (PVS) and IRRI-BRRRI collaborative research through International Network for Genetic evaluation of Rice (INGER) and other projects (PETRRA, IFAD and CPWF PN-7)
Plant Breeding Division, BRRRI Regional Station, Barisal	Scientist-Plant Breeding	8 February 2001	16 May 2002	Planning, designing & implementation of research program on rice breeding, Evaluation of yield trials (AYT and RYT) and report writing, Dissemination of technology (extension activities) and training of farmers and extension workers

Plant Breeding Division, BRRI, Gazipur	Scientist-Plant Breeding	28 February 1999	7 February 2001	Planning, designing and implementation of research program on rice breeding, hybridization, selection of segregating breeding materials and evaluation of replicated yield trials (PYT, SYT and RYT/MLT), collaborative research with IRRI through INGER and IFAD, extension of new rice varieties and report writing
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\*Promoted to Principal Scientist on **April 16, 2014** during work at IRRI;

**Reviewer:** Molecular Biology Report, Critical Reviews in Biotechnology, Eco-friendly Agriculture, Proceedings of the National Academy of Sciences, Biological Sciences (NASB), Journal of Phytopathology

### **Experience in research and training coordination**

Experienced in working and coordinating research activities with a diverse, multi-partner, multidisciplinary, multi-institutional, and multi-cultural work environment.

### **Coordination/collaboration with different partners**

Experienced in working with people from different nationalities (Australia, Bangladesh, India, Myanmar, Philippines, South Korea, Sudan, USA) and very strong communication and coordination with different collaborators in national and international level (e.g. Dhaka University, BAU, BARC, BINA, BARI, DAE, BRAC, IRRI, DANIDA, PhilRice, Department of Agriculture [DoA], Myanmar, Department of Agricultural Research [DAR], Yezin, Myanmar)

### **Training/Teaching experience**

Coordinated training program for scientists/researchers, extension personnel and farmers.

- Successfully organized/ coordinated the **Training on “Rice Production Technique” for i) Farmers, ii) Assistant Agricultural Extension Officer at BRRI, Regional Station, Barisal in 2001, iii) “Theory and Practice of Molecular Breeding in Rice” for 30 Scientists of BRRI at Plant Breeding Division, BRRI Gazipur-1701, Bangladesh on 29 January- 3 February 2012, iv) “Theoretical and Applied Molecular Breeding” for NARS Scientists at Plant Breeding Division, BRRI Gazipur-1701, Bangladesh of 30 participants on 24-29 September 2012, v) “Field and Data Management of PVS Trials” for sixteen participants from the LIFT project of IRRI, Ministry of Agriculture and Irrigation in Bogale and NGO partners from the Ayeyarwady Delta held on 3-4 April 2013 at the IRRI Myanmar office in Bogale Township, Myanmar.**
- Served as resource person in national and international training courses (GCP Training Workshop organized by IRRI-BRRI collaboration on **Marker-Assisted Breeding for Bangladesh held from 17-28 November 2008** at BRRI, Gazipur-1701, Bangladesh; **Molecular Breeding Course held from 22 February to 5 March 2010** at IRRI,

LosBanos, Laguna, Philippines; **contributed to course designing of Hands-on Training on Quality Rice Seed Production** for 49 participants **held from 10-12 October 2013** at Department of Agricultural Research (DAR), Yezin, Myanmar

- At least two workshops organized at the Institute level on various research extension linkages.

### Supervision of MS/Ph. D program

Serving Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur and Bangladesh Agricultural University, Mymensingh as a “Research Supervisor/Committee member” for the students of the Department of Biotechnology; Dept. of Genetics and Plant Breeding since 2011. One student received MS in Biotechnology degree under my supervision.

**Language skills: (Mark 1 to 5 for competence, 5= very good)**

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
English	5	5	5
Bengali	Native/Mother language		

### Salient Research Accomplishments (in brief)

#### (A) DEVELOPMENT OF RICE VARIETIES

#### Research Achievements/ Technologies/products developed

(Rice varieties developed and released in Bangladesh as Lead PI /Co-PI)

<b>Technologies/products (Variety name)</b>	<b>Method(s) of development</b>	<b>Type of technology</b>	<b>Year of release/Remarks</b>
BRRRI dhan42 (BR6058-6-3-3)	Pedigree breeding	Drought tolerant upland <i>aus</i> rice variety	2004
BRRRI dhan43 (BR5543-5-1-2-4)	Pedigree breeding	Drought tolerant upland <i>aus</i> rice variety	2004
BRRRI dhan44 (BR6110-10-1-2)	Pedigree breeding	Tidal submergence tolerant rice variety	2005
*BRRRI dhan47 (IR 63307-4B-4-3)	PVS	Salt tolerant <i>Boro</i> rice variety/ Irrigated rice	2007
BRRRI dhan50 (BR6902-16-5-1-1)	Pedigree breeding	Premium quality rice (Basmati type)/ Irrigated rice	2008
BRRRI dhan54 (BR5999-82-3-2-HR1)	Pedigree breeding	Salt tolerant <i>T. Aman</i> rice variety	2010
BRRRI dhan55 (IR 73678-6-9B)	PVS	Salt, cold and drought tolerant rice variety	2011
**BRRRI dhan28-Saltol (IR 89573-84)	Marker-assisted backcrossing (MABC)	Salt tolerant <i>Boro</i> rice line/ Irrigated rice	MABC product
**BR11-Saltol (IR 89574-7)	MABC	Salt tolerant <i>T. Aman</i> rice line	MABC product

BRRi dhan61 (BR7105-4R-2)	Pedigree breeding & PVS	Salt tolerant <i>Boro</i> rice variety/ Irrigated rice	2013
BRRi dhan65 (OM1490)	Pure line selection & PVS	Early, direct seeded rice ( <i>aus</i> ) for drought prone ecosystem	2014
BRRi dhan67 (BR7100-R-6-6)	Pedigree breeding & PVS	Salt tolerant <i>Boro</i> /Irrigated rice variety	2014

\*A large range of salt tolerant improve genotypes was grown in mother and baby trials of participatory varietal selection (PVS) in coastal areas of Bangladesh. BRRi dhan47 (IR 63307-4B-4-3) was finally selected and released as salt tolerant variety for *Boro* season in Bangladesh.

\*\*First introgression of *Saltol* locus into the mega varieties and developed two salt tolerant rice genotypes, IR89573-84 (BRRi dhan28-Saltol) and IR89574-7 (BR11-Saltol) through marker-assisted breeding at IRRi that are under advance stage of testing for release in Bangladesh and Myanmar.

## LIST OF PUBLICATIONS

### Research papers

1. **Rahman, M. A.**, M. A. I. Khan, S. M. Jobair Hossain, M. S. Hossain, M. A. Hossain and S. S. Haque 2002 Quantitative Karyotype Analysis of *Lycopersicon esculentum* cv. Oxheart. Pakistan Journal of Biological Sciences 5(5): 581-584.
2. **Rahman, M. A.**, M. S. Alam, Q. N. Ahmad, M. A. I. Khan and Abdullah-Al-Mahbub 2003. Genetic analysis on yield and its component traits of tomato (*Lycopersicon esculentum* Mill.). The Agriculturists, Vol.1 (1): 21-26.
3. **Rahman, M. A.**, M. S. Alam, Q. N. Ahmad and A A Mahbub 2003 Character association and path analysis in tomato (*Lycopersicon esculentum* Mill.). The Agriculturists, Vol.1 (1): 15-20.
4. **Rahman, M.A.**, H Hossain, M.A.Hossain, M. K. Hossain and M. Khatun 2006. Genotypic response to environment and stability appraisal in tomato (*L. esculentum* Mill.). The Agriculturists Vol. 4 (1&2): 59-66.
5. Thomson, M. J, M de Ocampo, J. Egdane, **M.A. Rahman** et al. 2010. Characterizing the *Saltol* Quantitative Trait Locus for Salinity tolerance in Rice. Rice Vol. 3: 148-160. DOI 10.1007/s12284-010-9053-8 (**Springer**)
6. Hossain, H., **M.A. Rahman**, M. S. Alam and R. K. Singh 2014. Mapping of quantitative trait loci associated with reproductive-stage salt tolerance in rice. J Agro Crop Sci. (published online):1-15. doi:10.1111/jac.12086. © 2014 **Wiley-Blackwell Verlag GmbH**
7. Hossain, H., **M.A. Rahman**, M. S. Alam and R. K. Singh 2011. Physiology and genetics of salt-proof rice- bringing hope for the researcher. Eco-friendly Agril. J. 4(5): 599-604.

8. Hossain, H., **M.A. Rahman**, M. S. Alam and R. K. Singh 2011. Inheritance pattern of important traits associated with reproductive-stage salt tolerance in rice. Intl. J. BioRes. 10(5):53-57.
9. Hossain, H., **M.A. Rahman**, M. S. Alam and R. K. Singh 2011. Path analysis: a new approach to determine the contribution of traits to reproductive-stage salt tolerance in rice. Intl. J. BioRes. 10(6):47-51.
10. Islam, M.R, M. A. Salam, T. L. Aditya, M. A. R. Bhuiyan, **M. A. Rahman**, M. S. Rahman, S. Khatun and H. U. Ahmed. 2008. Improvement of rice genotypes for salt affected areas of Bangladesh. Intl. J. BioRes. 4 (5): 81-85.
11. Islam, M.R, M A Salam, M. A. R. Bhuiyan, **M. A. Rahman** and G.B. Gregorio. 2008. Participatory variety selection for salt tolerant rice. Intl. J. BioRes. 4 (3): 21-25.
12. Biswas, P.S, M.A. Salam and **M. A. Rahman** 2001. Improved deepwater rice (*Oryza sativa* L.) genotypes for shallow flooding. Bangladesh J. Pl. Breed. and Genet. 14(1): 37-41.
13. Haque, E, **M.A. Rahman**, M.A. Hossain, M.A Salam and M. Haque 2002. Genetic composition of BRRI varieties: II. BRRI dhan27-BRRI dhan41 and BRRI hybrid dhan1. Bangladesh Rice J., 11 (Special Issue): 53-63.
14. Hossain, M.S, **M.A. Rahman**, M.A.I. Khan, Abdullah-Al-Mahbub and G.M. Mujibar Rahman, 2000. Use of solar energy as seed treating agent to control the seed borne fungi of rice. Bangladesh J. Environ Sci., 6(2): 447-450
15. Hossain, S.M. J, M.A.I. Khan, **M.A. Rahman**, M.A. Hossain, S.S. Haque and G.R. Janardhana.2002. Biodiversity study of *Fusarium* spp. on stored cereal grains in Karnataka State, India. Pakistan Journal of Biological Sciences. 5(4): 446-448.
16. Hossain, M.A., B.C. Roy, **M.A. Rahman**, A.I. Khan and A.W. Julfikar, 2004. Performance of IR68877H and IR69690H (BRRI Hybrid dhan1) in the South-central Region. J. Biol. Sci. 4(2): 130-133.
17. Hossain, H., M.A. Newaz, **M.A. Rahman** and M.A. Hossain, 2004. Genotype- environment interaction for yield and yield contributing characters in tomato (*L. esculentum* Mill.). Bangladesh J. Environ. Sci. 10: 141-146.
18. Hossain, H., M.A Newaz, **M.A. Rahman** and M.A. Hossain, 2004. Genetic variability, heritability and scope of improvement in tomato (*L. esculentum* Mill.). Bangladesh J. Environ. Sci. 10: 131-136.

19. Hossain, K., A. Akter, **M. A. Rahman**, M.H. Ali and M. A. Hossain 2009. Prediction of heterosis for yield and its component traits among hybrids of line X tester crosses in rice. *Eco-friendly Agril. J.* 2 (2): 494-498.
20. Khatun, S., 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. *Intl. J. BioRes.* 4 (5): 48-51.
21. Khan, M.A.I., S. Hossain, **M.A. Rahman**, S.M. Jobair Hossain and G.M. Mujibar Rahman. 2002. Solar heat: it's use for controlling seed borne fungal infections of wheat. *Pakistan Journal of Biological Sciences* 5(4): 449-451.
22. Khan, M.A.I, M.A. Hossain, M.A.H. Khan, **M.A. Rahman**, B.C. Roy and Nur-E-Elahi, 2001. Yield performance and comparative cost analysis of wet seeded and transplanted boro rice. *Bangladesh J. Seed Sci. & Tech.* 5 (1&2):79-84.
23. Khatun, M., **M. A. Rahman**, S. Khatun, K. M. Akther and H. Hossain 2006. Genetic variability, character association and path coefficient analysis in wheat (*Triticum aestivum* L.). *Bangladesh J. Pl. Breed. Genet.* 4 (1&2): 41-46.
24. Khatun, M., T. L. Aditya, **M. A. Rahman**, K.M. Iftakharuddaula, and M. A. Salam 2010. Stability analysis of premium quality rice genotypes. *Intl. J. BioRes.* 8(2): 1-5.
25. Roy, B. C., M. A. Hossain and **M. A. Rahman** 2004. Ratooning ability of photoperiod-sensitive rice varieties transplanted in *boro* season. *PJBS* 7(3):368-371.
26. Islam, M.R, M A Salam, M. A. R. Bhuiyan, **M. A. Rahman**, R. Yasmeen, M. S. Rahman, M. K. Uddin, G. B. Gregorio and A. M. Ismail. 2008. BRRI dhan47: a salt tolerant rice variety for *boro* season isolated through participatory variety selection for salt tolerant rice. *Intl. J. BioRes.* 5 (1): 1-6.
27. Sharma N., M. R. A. Sarker, **M. A. Rahman** and M. R. Islam, 2013. Participatory varietal selection of modern T. Aman rice varieties in salt affected coastal area of Bangladesh. *Eco-friendly Agril. J.* 6(08): 141- 145.
28. Sharma N, M. R. A. Sarker, **M. A. Rahman** and M. R. Islam 2013. Varietal evaluation of rice for improving productivity in southern Bangladesh. *Intl. J. BioRes.* 15(4): 7-13.

### **Book Chapters (Peer Reviewed)**

- (i) Ismail, A. M, M. J. Thomson, G. V. Vergara, **M. A. Rahman** and R. K. Singh 2010. Designing resilient rice varieties for coastal deltas using modern breeding tools. CAB International 2010, *Tropical Deltas and coastal Zones: Food production*: 154-165.
- (ii) Salam, M. A., M. R. Islam, M. S. Rahman and **M. A. Rahman** et al. 2010. Rice varieties and cultural management practices for high and sustained productivity in the



- coastal wetlands of southern Bangladesh. CAB International 2010. Tropical Deltas and coastal Zones: Food Production: 183-198
- (iii) Salam, M A, **M. A. Rahman**, M. A. R. Bhuiyan, K. Uddin et al. 2007. BRRI dhan47: a salt-tolerant variety for the boro season. IRRN Vol 32/1: 42-43.
- (iv) Manzanilla D., **M. A. Rahman**, M. A Salam and N. Sharma 2012. Farmers gain from ‘salinity-buster BRRI dhan47. CURE Matters Vol. 2 No. 1: page 4.
- (v) **Rahman, M. A.**, M. R. A. Sarker, N. Sharma, M. R. Islam, G. B. Gregorio and E. Humphreys 2013. Turning adversity into opportunity. CURE Matters Vol. 3 No. 1: page 16.
- (vi) Salam, M. A., P. S. Biswas and **M. A. Rahman** 2004. Strategies for increasing productivity of rice in medium flooded areas of Bangladesh. Rice Research and Development in the Flood-prone Ecosystem. Edited by S. I. Bhuiyan, M. Z. Abedin. V. P Singh and B. Hardy, 2004 IRRI, 163p.

### **Invited Talks and Seminars**

- Rahman, M. A.** 2006. Marker-assisted backcrossing of *Saltol* and development of near-isogenic lines for additional quantitative trait loci to characterize salt tolerance mechanisms in rice. Seminar paper presented on June 20, 2006 at Department of Genetics and Plant Breeding, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh
- Rahman, M. A.** 2010. Marker-assisted breeding for salinity tolerance in rice. Paper presented on October 2010 at BRRI Thursday Seminar, Gazipur 1701, Bangladesh
- Rahman, M. A.** 2011. Mapping novel QTLs for salt tolerance in rice by selective genotyping. Paper presented on February 24, 2011 at BRRI Thursday Seminar, Gazipur 1701, Bangladesh
- Rahman, M. A.** 2011. Marker-assisted backcrossing of *Saltol*, discovery of additional quantitative trait loci and assessment of allelic variability in *Saltol* in rice germplasm. Paper presented on January 2011 at Department of Genetics and Plant Breeding, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh
- Rahman, M. A.** 2012. Development of salt tolerant rice for Bangladesh. Paper presented on 16 April 2012 at STRASA Phase2-Review and Planning Workshop, Dhaka, Bangladesh
- Rahman, M. A.** 2014. Breeding methodologies to accelerate adoption of improved pearl millet cultivars in West and Central Africa. Paper presented on 20 January 2014 at ICRISAT Regional Hub WCA, Bamako, Mali
- Rahman, M. A.** 2014. Transforming rice breeding for irrigated regions in South Asia. Seminar paper presented on 14 February 2014 at IRRI LosBanos, Philippines.
- Rahman, M. A.** 2014. Challenges and opportunities for *aman* rice cultivation in *ghers* used for brackish water shrimp production. Paper presented in CPWF conference ‘Revitalizing the Ganges Coastal Zone’, Dhaka, 21-23 October 2014

## Proceedings/ abstracts

1. **Rahman, M. A.**, M. Thomson, M. Ocampo, J. Egdane, M. A. Salam, A. Ismail 2008. Marker-assisted backcrossing to introgress the *Saltol* QTL for rapid conversion of a Bangladeshi mega-variety to salt-tolerant type. Abstract no. CS4-S1, P7. 5th International Crop Science Congress & Exhibition (ICSC 2008). [www.cropscience2008.com](http://www.cropscience2008.com). April 13-18, 2008. Jeju, Korea, p281.
2. **Rahman, A.**, M. J. Thomson, M. P. de Ocampo, J. Egdane, A. M. Ismail 2009. Marker-assisted backcrossing of *Saltol* and mapping novel QTLs associated with salinity tolerance in rice by selective genotyping. Paper presented at the Generation Challenge Programme's Annual Review Meeting, 19-23 Sep 2009, Bamako, Mali
3. Thomson MJ, **M. A. Rahman**, M. de Ocampo, J. Egdane, R. K. Singh, S. R. McCouch and A. M. Ismail 2009. Allelic variation from the salt tolerant landrace Pokkali for improved salinity tolerance in rice. Poster presented at the International Plant & Animal Genome XVII Conference, 10-14 Jan 2009, San Diego, CA, USA
4. Hossain H, **M. A. Rahman**, M.S. Alam, M. P. De Ocampo, A.G. Saijse, A. N. Vispo, L. Refuerzo, M. Arceta, E. F. C. Mercado, M. J. Thomson, A.M. Ismail, G. B. Gregorio and R. K. Singh 2009. QTL identification for reproductive-stage salinity tolerance in rice. Poster presented at the 6<sup>th</sup> International Rice Genetics Symposium, 16-19 Nov2009, Manila, Philippines
5. Thomson M. J., K. Zhao, M. Wright, M. Y. Reveche, J. Rey, **M. A. Rahman**, K. L. McNally, H. Leung and S. R. McCouch 2009. Development and application of 96 and 384-plex SNP sets for diversity analysis and mapping in rice. Poster presented at the 6th International Rice Genetics Symposium, 16-19 Nov2009, Manila, Philippines.
6. De Ocampo M. P., M. J. Thomson, J. Egdane, **M. A. Rahman**, R. E. Zantua, J. C. T. Concepcion and A. M. Ismail 2009. Genetic dissection of seedling-stage salt tolerance in rice using an indica-japonica population. Paper presented at the 6th International Rice Genetics Symposium, 16-19 Nov2009, Manila, Philippines.
7. Thomson, M. J., K. Zhao, M. Wright, A. Reynolds, **M. A. Rahman**, A. M. Ismail, K. L. McNally, C. D. Bustamante and S. R. McCouch 2010. Application of Illumina BeadXpress 384-plex SNP sets for diversity analysis and genetic mapping in rice. PAGXVIII, Town & Country Convention Center, San Diego, CA ([http://www.intl-pag.org/18/abstracts/P05b\\_PAGXVIII\\_249.html](http://www.intl-pag.org/18/abstracts/P05b_PAGXVIII_249.html)) January 9-13, 2010.
8. Thomson, M. J., M. Ocampo, J. Egdane, M. Katimbang, **M. A. Rahman**, R. K. Singh, G. B. Gregorio and A. M. Ismail 2007. QTL mapping and marker-assisted backcrossing for improved salinity tolerance in rice. PAGXV, Town & Country Convention Center, San Diego, CA January 13-17, 2007.
9. Thomson, M.J.; M. De Ocampo, J. Egdane, M. Katimbang, **M. A Rahman**, R.K. Singh, G.B. Gregorio and A.M. Ismail 2007. QTL mapping and marker-assisted backcrossing for improved salinity tolerance in rice. In: Proceedings of BioAsia 2007: 6th Asian Crop Science Association Conference and 2nd International conference on rice for the future, Bangkok 5-9 November, 2007. Pages 6-12.
10. **Rahman, M. A.**, M. J. Thomson, M. P. De Ocampo, J. A. Egdane and A. M. Ismail 2010. Marker-assisted backcrossing of *Saltol* and identification of novel QTLs conferring salinity tolerance in rice using selective genotyping. IRC 28 Abstract no. 4004, 8-12 November, 2010, Hanoi, Vietnam.
11. Hossain, H., **M. A. Rahman** et al. 2010. Identification of novel QTLs for salinity tolerance at reproductive stage in rice. IRC 28 Abstract no. 3822, 8-12 November, 2010, Hanoi, Vietnam.
12. De Ocampo M. P., M. J. Thomson, J. A. Egdane, **M. A. Rahman**, R. E. Zantua, A. M. Ismail 2010. QTL mapping and marker-assisted backcrossing for salinity tolerance in rice using an *indica-japonica* population. IRC 28 Abstract no. 3913, 8-12 November, 2010, Hanoi, Vietnam.
13. Gregorio G. B., M. R. Islam, **M. A. Rahman** and A.M. Ismail 2011. Rice Varieties with Multiple Traits for Intensive Cropping in the Coastal Zones of the Ganges. The 3rd International Forum on Water and Food, Tshwane, South Africa November 14 – 17, 2011
14. **Rahman, M. A.**, M. J. Thomson, M. Ocampo, J. Egdane, A. M. Ismail 2012. Identification of novel QTLs associated with salinity tolerance in rice by selective genotyping. Presented in 12th SABRAO Congress: Plant breeding towards 2025, January 13-16, 2012, Chiang Mai, Thailand.

15. Islam, M. R., H. Khatun, M. Anisuzzaman, **M. A. Rahman**, A. M. Ismail and G. B. Gregorio 2012. Progress of salt tolerant rice variety development in Bangladesh. Presented in 12th SABRAO Congress: Plant breeding towards 2025, January 13-16, 2012, Chiang Mai, Thailand.
16. Salam, M.A. M.R. Islam, M.A.R. Bhuiyan, **M.A. Rahman** and M.A.B. Faruque, 2004. Development of Salt Tolerant Variety through PVS for Boro Season. Proceedings Technology Development Workshop. Organized by: PETRRA-IRRI and BRRI, 23-24 May, 2004, 80p.

### **Membership of the professional association**

- a) Life member, Plant Breeding and Genetic Society of Bangladesh.
- b) Member, *Krishibid* (Agriculturist) Institution of Bangladesh.
- c) Member, BRRI Scientists Association (BRRISA).

### **Referees**

#### **1. Dr. Jiban Krishna Biswas**

Director General

Bangladesh Rice Research Institute

Gazipur 1701, Bangladesh

Email: [biswas.jiban@gmail.com](mailto:biswas.jiban@gmail.com)

[dg@bri.gov.bd](mailto:dg@bri.gov.bd)

#### **2. Dr. Rakesh K. Singh**

Senior Scientist II and Plant Breeder

Plant Breeding, Genetics and Biotechnology Division

International Rice Research Institute

DAPO Box 7777, Metro Manila, Philippines

Tel: +63-2-580-5600; Ext: 2279

Fax: +63 (2) 580-5699

Mobile: +63 91 7577 0859

Email: [r.k.singh@irri.org](mailto:r.k.singh@irri.org)

**(Mohammad Akhlasur Rahman)**

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