

Complete List of Publications:

1. Alam, M. N. U., Jewel, G. N. A., Azim, T., & Seraj, Z. I. (2020). Comprehensive analysis and genome-wide association studies of biomass, chlorophyll, seed and salinity tolerance related traits in rice highlight genetic hotspots for crop improvement. *bioRxiv*. doi: <https://doi.org/10.1101/2020.12.24.424354>
2. Elias, S. M., Rahman, M. S., Khan, S. F., Biswas, S., Haque, T., Razzaque, S., & Seraj, Z. I. (2020). Combination of traits at two developmental stages under salt stress as a measure of tolerance in a reciprocally crossed rice (*Oryza sativa*) population. *Crop and Pasture Science* 71: 334-348. <https://doi.org/10.1071/CP19560>
3. Haque T, Elias SM, Razzaque S, Biswas S, Khan SF, Jewel GN, Rahman MS, Juenger TE, Seraj ZI. Natural variation in growth and physiology under salt stress in rice: QTL mapping in a Horkuch× IR29 mapping population at seedling and reproductive stages. *bioRxiv*. 2020 Jan 1. <https://www.biorxiv.org/content/10.1101/2020.03.01.971895v1.full>
4. Biswas S, Islam MN, Sarker S, Tuteja N, Seraj ZI (2019). Overexpression of heterotrimeric G protein beta subunit gene (OsRGB1) confers both heat and salinity stress tolerance in rice. *Plant Physiology and Biochemistry* 144: 334-344. <https://doi.org/10.1016/j.plaphy.2019.10.005>
5. Rahman MS, Tareq TM, Sarker PK, Rashid EH, Yasmeen R, Ali MA, Seraj ZI, Shimono H (2019). Genetic variation of phenotypic plasticity in Bangladesh rice germplasm. *Field Crops Research*, 243: 107618. <https://doi.org/10.1016/j.fcr.2019.107618>
6. Noor AU, Jewel GN, Haque T, Elias SM, Biswas S, Rahman MS, Seraj ZI (2019). Validation of QTLs in Bangladeshi rice landrace Horkuch responsible for salt tolerance in seedling stage and maturation. *Acta Physiologiae Plantarum*. 41:173. <https://doi.org/10.1007/s11738-019-2963-1>
7. Sharif Shohan MU, Sinha S, Nabila FH, Dastidar SG, Seraj ZI. HKT1; 5 transporter gene expression and association of amino acid substitutions with salt tolerance across rice genotypes (2019). *Front. Plant Sci.* 10:1420. <https://doi.org/10.3389/fpls.2019.01420>
8. Razzaque S, Elias SM, Haque T, Biswas S, Jewel GN, Rahman S, Weng X, Ismail AM, Walia H, Juenger TE, Seraj ZI (2019). Gene Expression analysis associated with salt stress in a reciprocally crossed rice population. *Sci Rep* 9:8249. <https://doi.org/10.1038/s41598-019-44757-4>
9. Seraj Z.I., Elias S.M., Biswas S., Tuteja N. (2018) Helicases and Their Importance in Abiotic Stresses. In: Kumar V., Wani S., Suprasanna P., Tran LS. (eds) *Salinity Responses and Tolerance in Plants*, Volume 2. Springer, Cham. https://doi.org/10.1007/978-3-319-90318-7_6
10. Rima, F.S., Biswas, S., Sarker, P.K. et al. *Ann Microbiol*: 68, 525–535 (2018). Bacteria endemic to saline coastal belt and their ability to mitigate the effects of salt stress on rice growth and yields <https://doi.org/10.1007/s13213-018-1358-7>
11. Ferdous, N., Elias, S. M., Howlader, Z. H., Biswas, S. K., Rahman, M. S., Habiba, K. K., & Seraj, Z. I. (2018). Profiling Bangladeshi rice diversity based on grain size and amylose content using molecular markers. *Current Plant Biology*, 14, 56-65. <https://doi.org/10.1016/j.cpb.2018.09.002>

12. Tareq, T., Rahman, M., Jewel, N., Islam, T., Shimono, H., & Seraj, Z. (2018). Relative Response of Indigenous Rice Genotypes to Low Versus Normal Planting Density for Determination of Differential Phenotypic Plasticity in Traits Related to Grain Yield. *Plant Tissue Culture And Biotechnology*, 28(1), 109-124.
<http://dx.doi.org/10.3329/ptcb.v28i1.37203>
13. Shabnam Zaman, S. M. Touhidul Islam, Md Kawsar Khan, Mohammad Murshid Alam, Muhammad Ikhtear Uddin, Nabilah Ibnat Baby, Shahidul Islam, Taufiqur Rahman Bhuiyan, Firdausi Qadri, Zeba I. Seraj (2017). Immunogenicity of recombinant bacterial antigens expressed as fusion proteins in transgenic rice seeds. *BioTechnologia* vol. 98(4) C pp. 269-281. DOI: <https://doi.org/10.5114/bta.2017.72288>
14. T Ahmed, S Biswas, SM Elias, MS Rahman, N Tuteja, ZI Seraj (2018). In Planta transformation for conferring salt tolerance to a tissue-culture unresponsive indica rice (*Oryza sativa* L.) cultivar In Vitro Cellular & Developmental Biology-Plant, 1-12.
<https://doi.org/10.1007/s11627-017-9870-1>.
15. Biswas S, Amin USM, Sarker S, Rahman MS, Amin R, Karim R, Tuteja N, Seraj ZI (2018). Introgression, Generational Expression and Salinity Tolerance Conferred by the Pea DNA Helicase 45 Transgene into Two Commercial Rice Genotypes, BR28 and BR47. *Mol Biotechnol*. <https://doi.org/10.1007/s12033-017-0055-2>
16. Faisal, A. R. M., Biswas, S., Zerine, T., Rahman, T., & Seraj, Z. I. (2017). Downregulation of the DST Transcription Factor Using Artificial microRNA to Increase Yield, Salt and Drought Tolerance in Rice. *American Journal of Plant Sciences*, 8(09), 2219-2237. <https://doi.org/10.4236/ajps.2017.89149>
17. Tasmia Islam, Sudip Biswas, Most Umme Habiba, R.H. Sarker, M. Sazzadur Rahman, M. Ansar Ali, K.M.S. Aziz, Zeba I. Seraj. (2017). Characterization of Progenies from Intergeneric Hybridization between *Oryza sativa* L. and *Porteresia coarctata* (Roxb.) Tateoka. *Plant Tiss. Cult and Biotech* 27(1) 63-72.
<https://doi.org/10.3329/ptcb.v27i1.35013>
18. Razzaque, S., Haque, T., Elias, S.M., Rahman, M.S., Biswas, S., Schwartz, S., Ismail, A.M., Walia, H., Juenger, T.E. and Seraj, Z.I., 2017. Reproductive stage physiological and transcriptional responses to salinity stress in reciprocal populations derived from tolerant (Horkuch) and susceptible (IR29) rice. *Scientific Reports*, 7.
<https://www.nature.com/articles/srep46138>
19. Saima Shahid, Rokeya Begum, Samsad Razzaque, Jesmin, Zeba I. Seraj (2016). Variability in amylose content of Bangladeshi rice cultivars due to unique SNPs in *Waxy* allele. *Journal of Cereal Science* 71: 1-9. (Elsevier).
<https://doi.org/10.1016/j.jcs.2016.07.006>
20. Razzaque, S., Khan, S. F., Jewel, N. A., Haque, T., Elias, S. M, Rahman, S., Seraj, Z. I. 2016. Genetic Analysis of SSR Markers in F₂ Reciprocal Populations of the Rice genotypes, Horkuch and IR29 show high segregation distortion. *Biores Comm* 2 (2), 219-229. <http://www.bioresearchcommunications.com/index.php/brc/article/view/76>
21. F Yasmin, S Biswas, GMNA Jewel, SM Elias, ZI Seraj (2015). Constitutive Overexpression of the Plasma Membrane Na⁺/H⁺ Antiporter for Conferring Salinity Tolerance in Rice *Plant Tissue Culture and Biotechnology* 25 (2), 257-272.
<https://doi.org/10.3329/ptcb.v25i2.26259>

22. USM Amin, S Biswas, SM Elias, S Razzaque, T Haque, R Malo, ZI Seraj (2016). Enhanced Salt Tolerance Conferred by the Complete 2.3 kb cDNA of the Rice Vacuolar Na⁺/H⁺ Antiporter Gene Compared to 1.9 kb Coding Region with 5' UTR in Transgenic Lines of Rice. *Frontiers in plant science* 7. <http://dx.doi.org/10.3389/fpls.2016.00014>
23. S Sarker, S Biswas, MA Shahed, A Razzaque, ZI Seraj (2016). Cloning, characterization and analysis of the Arabidopsis RD29A promoter for its inducible expression in rice under salinity and drought stress. *Biores comm* 2 (1), 139-145. <http://bioresearchcommunications.com/index.php/brc/article/view/61>
24. S Parvin, S Biswas, S Razzaque, T Haque, SM Elias, RS Tammi and ZI Seraj (2015). Salinity and drought tolerance conferred by in planta transformation of SNAC1 transcription factor into a high-yielding rice variety of Bangladesh *Acta Physiologiae Plantarum* 37:68. <https://doi.org/10.1007/s11738-015-1817-8>
25. S Biswas, S Razzaque, SM Elias, USM Amin, T Haque, SMT Islam, Lisa LA, Naznin F, Rasul NM and Seraj ZI (2015). Effect of the vacuolar Na⁺/H⁺ antiporter transgene in a rice landrace and a commercial rice cultivar after its insertion by crossing. *Acta Physiologiae Plantarum* 37: 1730. <https://doi.org/10.1007/s11738-014-1730-6>
26. Razzaque, S., Chakraborty, D., Tammi, R.S., Elias, S.M., Seraj, Z.I. and Islam, A. (2014) Cloning of Three Antiporter Genes from Arabidopsis and Rice for Over-Expressing Them in Farmer Popular Tomato Varieties of Bangladesh. *American Journal of Plant Sciences*, 5, 3957-3963. <http://dx.doi.org/10.4236/ajps.2014.526414>
27. Yesmin N, Elias SM, Rahman MS, Hasan AKMM and Seraj ZI (2014). "Unique genotypic differences discovered among indigenous Bangladeshi Rice Landraces". *Int J Genomics*. Article ID: 210328. <http://dx.doi.org/10.1155/2014/210328>
28. Khan MK, Zaman S, Chakraborty S, Chakravorty R, Alam MM, BhuiyanTR, Rahman MJ, Fernandez C, Qadri F and Seraj ZI (2014). "In silico predicted mycobacterial epitope elicits in vitro T-cell responses". *Mol. Immunol* 61: 16-22. Elsevier. <http://dx.doi.org/10.1016/j.molimm.2014.04.009>
29. Elias SM, Begum R, Rahman MR, Ferdouse A, Shozib HB, Ali MM and Seraj ZI (2015). "Genotypic and phenotypic relatedness of a farmer-discovered variant with high yielding rice growing in the same field". *Plant Systematics and Evolution*. 301 (1), 451-465. Springer. <https://doi.org/10.1007/s00606-014-1085-x>
30. Mohammad Arif Ashraf, Sudip Biswas, Samsad Razzaque, Taslima Haque and Zeba I Seraj (2014). Cloning and Characterization of Alcohol Dehydrogenase (*Adh*) Promoter Region for Expression Under Submergence and Salinity Stress. *Plant Tissue Cult & Biotech* 24: 111-120. <https://doi.org/10.3329/ptcb.v24i1.19252>
31. Mahzabin Amin, Sabrina M. Elias, Alamgeer Hossain, Aliya Ferdousi, Md. Sazzadur Rahman, Narendra Tuteja and Zeba I. Seraj (2012). "Overexpression of a DEAD box helicase, PDH45, confers both seedling and reproductive stage salinity tolerance to rice (*Oryza sativa* L.)" *Molecular Breeding* 30: 345-354. <https://doi.org/10.1007/s11032-011-9625-3>
32. Sabrina M. Elias, A. K. M. Mahbub Hasan and Zeba I. Seraj (2011). Microsatellite marker diversity and sequence polymorphism in the red gene locus of indigenous rice populations of Bangladesh. *Plant Syst Evol*. 296:157-165. <https://doi.org/10.1007/s00606-011-0482-7>
33. Laisa A. Lisa, Sabrina M. Elias, M. Sazzadur Rahman, Saima Shahid, Tetsushi Iwasaki, Mahbub Hasan, Keiko Kosuge, Yasuo Fukami and Zeba I. Seraj (2011). Physiology and

- gene expression of the rice landrace Horkuch under salt stress. *Functional Plant Biology*, 38: 282-292/ <https://doi.org/10.1071/FP10198>
34. Rejbana Alam, M. Sazzadur Rahman, Zeba I. Seraj, Michael J. Thomson, Abdelbagi M. Ismail, Ellen Tumimbang-Raiz and Glenn B. Gregorio (2011). *Plant Breeding* 130: 430-437. <https://doi.org/10.1111/j.1439-0523.2010.01837.x> Wiley Blackwell publications.
 35. Saima Shahid, Sabrina M. Elias, Sudip Biswas, Zeba I. Seraj (2010). READS- a resource for plant non-coding regulatory sequence analysis. *Plant Tissue Cult & Biotech.* 20: 211-223. <https://doi.org/10.3329/ptcb.v20i2.6916>
 36. Michael J. Thomson, Marjorie de Ocampo, James Egdane, M. Akhlaur Rahman, Andres Godwin Sajise, Dante L. Adorada, Ellen Tumimbang-Raiz, Eduardo Blumwald, Zeba I. Seraj, Rakesh K. Singh, Glenn B. Gregorio and Abdelbagi M. Ismail (2010). Characterizing the Saltol Quantitative Trait Locus for Salinity Tolerance in Rice. *Rice* 3:148-160. <https://doi.org/10.1007/s12284-010-9053-8>
 37. M Sazzadur Rahman, Keshob C Das, Dipok K Das, Kuntal Biswas, M Badrul H Chowdhury, Nilufer H Karim, M Abdus Salam and Zeba I Seraj (2010). Breeding and anther-derived lines of rice for saline coastal areas of Bangladesh *Bang J Bot* 39: 71-78. <https://doi.org/10.3329/bjb.v39i1.5529>
 38. S.M. Touhidul Islam, R.S. Tammi, Sneha L Singla-Pareek, Z.I. Seraj (2010). Enhanced Salinity Tolerance and improved yield properties in Bangladeshi rice Binnatoa through Agrobacterium Mediated Transformation of PgNHX1 from *Pennisetum glaucum*. *Acta Physiol Plant* 32: 657-663. <https://doi.org/10.1007/s11738-009-0443-8>
 39. SM Touhidul Islam, Rumana S. Tammi, Richard Malo, Mahzabin Amin, M. Sazzadur Rahman, Sabrina M. Elias and Zeba I. Seraj (2009). Constitutive expression of OsNHX1 under the promoter Actin1D can improve the tolerance and yield characteristics of Bangladeshi rice Binnatoa in salt stress. *Australian J. of Crop Sci* 3: 329-335. <http://www.cropj.com/november2009.html>
 40. SM Touhidul Islam, Rumana S Tammi, Sneha L Singla-Pareek and Zeba I Seraj (2009) Agrobacterium-mediated Transformation and Constitutive Expression of PgNHX1 from *Pennisetum glaucum* L in *Oryza sativa* L cv Binnatoa *Plant Tissue Cult & Biotech* 19: 25-33. <https://doi.org/10.3329/ptcb.v19i1.4912>
 41. SM Touhidul Islam and Zeba I Seraj (2009) Vacuolar Na⁺/H⁺ antiporter expression and salt tolerance conferred by actin1D and CaMV35S are similar in transgenic Binnatoa rice *Plant Tissue Cult & Biotech* 19: 257-262. <https://doi.org/10.3329/ptcb.v19i2.5444>
 42. Laisa A Lisa, Zeba I Seraj, C M Fazle Elahi, Keshob C Das, Kuntal Biswas, M Rafiqul Islam, M Abdus Salam and A R Gomosta (2004). Genetic variation in microsatellite DNA, physiology and morphology of coastal saline rice (*Oryza sativa* L) landraces of Bangladesh *Plant & Soil* 263 (1-2): 213-228 Kluwer Academic. <https://doi.org/10.1023/B:PLSO.0000047727.24160.f3>
 43. Tumimbang EB, Adorada DL, Nunez J, Elahi F, Seraj ZI, Dvorjak J and Gregorio GB (2002). Developing near isogenic lines to fine map salinity tolerance genes in chromosome 1. In *Plant Breeding, Genetics and Biochemistry Annual Report*, International Rice Research Institute Publication. <https://agris.fao.org/agris-search/search.do?recordID=PH2003001189>
 44. Seraj ZI and Salam MA (2000) Growing rice in saline soils: biotechnological approaches for Bangladesh *Asia-Pacific Tech Monitor* 17 (6): 55-59.
 45. Sarker RH, Islam MN, Islam A and Seraj ZI (2000). *Agrobacterium*-mediated genetic transformation of peanut (*Arachis hypogea* L.). *Plant Tiss. Cult.* 10: 137-142.

46. Islam MR, Khan MH, Zohra FT, Hossain MR & Seraj ZI (1999). Stable transformation of jute (*Corchorus capsularis* L. CVL-1) calli and high efficiency marker gene insertion in explants. *Plant Tiss. Cult.* 9: 53-61.
47. Keya C., Seraj Z I, and Mahmood S (1999) Restriction Fragment Length Polymorphism (RFLP) between *Porteresia coarctata* and traditional Salt Tolerant rice varieties (*Oryza sativa*). *Suppl. Issue Dhaka University J. of Biological Sciences* 8:17-24.
48. Faruque MO, Farzana T, Seraj ZI, Sarker R H and Khatun A A (1998) Variation in green plant regeneratin response from anthers of indica rice and their hybrids with japonica cv Taipei 309 *Plant Cell, Tissue and Organ Culture* 54: 191-195.
49. Seraj Z I, Islam Z, Faruque M O, Devi T and Ahmed S (1997) Identification of the regeneration potential of embryo derived calluses from various Indica rice varieties *Plant Cell, Tissue, Organ Culture* 48: 9-13.
50. Ali MM, Islam Z, Ali, KM, Rasul NM, Farzana T, Faruque MO and Seraj Z I and Mahmud I (1997). Relationship of glyoxalase-1 activity with regeneration potential of embryo-derived rice callus. *Bangladesh. J. Biochem.* 3:87-93.
51. Rasul NM, Ali KM, Islam R and Seraj Z I, (1997) Transformation of an Indica Rice Cultivar Binnatoa with *Agrobacterium tumefaciens*. *Plant Tissue Cult* 7:71-80.
52. Seraj Z I, Faruque M O, Hossain K G, Sarker R H, Devi T, Islam Z and Islam A S (1996) Attempted Wide Hybridization between *Oryza sativa* L and *Porteresia coarctata* T *International Rice Research Notes* 21 (nos 2-3), 35.
53. Seraj Z I, Mahmood S, Farzana M and Amara U. (1996). Detection of single copy homologous genomic DNA by the non radioactive enhanced Chemiluminescence method. *Bangladesh J. of Biochem* 2:1-7
54. Seraj Z I, Motaleb M A, Hossain GMF, Huq E, Rahman M, Samad M A and Hossain M A (1995) Study of homology between salt tolerant *Porteresia coarctata* and *Oryza sativa* through analysis of protein, isozyme and DNA patterns *Dhaka university J of Biol Sci* 4 91-97
55. Talukder A H, Hossain GMF, Akhter M, Islam Z, Seraj Z I, and Hossain MA (1995). Salinity Tolerance Index of six *Oryza sativa* L. Indica land races of Bangladesh. *Dhaka University J. of Biol. Sciences* 4 : 81-83
56. Sarker R H, Samad M A, Seraj Z I, Hoque M I and Islam A S (1993) Post pollination development of pollen tube following intergeneric cross, *P coarctata* x *O sativa* var BR-9 with fluorescent microscopy *Euphytica* 69 : 129-134
57. Seraj Z I, Sarker A B and Islam A S (1992). Plant regeneration in a jute species (*C. capsularis*) and its possible relationship with glyoxalase. *Plant Cell Reports* 12 : 29-33.
58. Halder S K and Seraj Z I (1992) Cell suspension cultures in three varieties of jute. *Plant Tissue Culture* 2: 15-20
59. Seraj Z I, Samad M A and Talukder A H (1992) Comparative study of protein and esterase profiles of wild salt tolerant rice with local and high yielding cultivars. *Dhaka University Studies* 7, Part E : 65-70.
60. Al Mamun A A M, Ahmed Z U and Seraj Z I, (1991) A gene bank of *Shigella dysenteriae* – 1 in a cosmid. *Bangladesh J. of Microbiol* 8: 73-78.
61. Seraj Z I, Samad M A, Talukder A H and Hossain M A (1991). Regeneration of six *Oryza sativa* L. indicas Salt tolerant varieties from mature embryos. *Plant Tissue Culture* 1: 51-56.

Conference paper

62. Abdullah-Al-Emran, Richard Malo, Mahzabin Amin, Debashis Chakraborty, Aliya Ferdousi and Zeba I. Seraj - Cloning and Transformation of the Transcription Factor

- SNAC1 from Rice (*Oryza sativa* L.) Landrace Pokkali In: Role of Biotechnology in Food Security and Climate Change. Islam AS, Haque MM, Sarker RH and Hoque MI (Eds). Proc. Sixth Intl. Plant Tissue Cult. & Biotech. Conf., December 3-5, 2010, Bangladesh Assoc. Plant Tissue Cult. & Biotech. Dhaka, Bangladesh. pp. 155-164.
63. Hossain MB, Khan MH, Choudhury EH, Zohra FT, Seraj ZI, Khan H and Sarker RH (1999). Transformation of Jute (*Corchorus capsularis* L. vars. CVL-1 and D-154) with the plasmids pCAMBIA 1201, pBI121 and pBINCHI.11 and high efficiency marker gene insertion in explants. In Proc. of the workshop on Application of Biotechnology in the Improvement of Jute, Kenaf and Allied Fibers-PhaseII, Haikou, China, 15-17 December. Intl. Jute Organ. publication, pp28-38
64. Haseena Khan, Zeba I. Seraj, Rakha Hari Sarker, Lais Khandekar, Selina Begum, Nazir Hossain, K. Mohammad Ali, M. Bakhtiar Hossain, Fatema Tuz Zohra, Samiul Haque and Shamim Hossain (2000). Potential Improvement of Jute by Biotechnological Approaches. In Proc. of the -18. workshop on Application of Biotechnology in the Improvement of Jute, Kenaf and Allied Fibers-PhaseII, Beijing, China, Aug. 10-12, 2000, pp 7

Book Chapters

65. Seraj, Zeba I., Sabrina M. Elias, Taslima Haque, Nurnabi A. Jewel, and Tabassum R. Sunfi. "Combination of DNA markers and eQTL information for introgression of multiple salt-tolerance traits in rice." In *Advancement in Crop Improvement Techniques*, pp. 1-22. Woodhead Publishing, Elsevier. 2020. <https://doi.org/10.1016/B978-0-12-818581-0.00001-2>
66. Seraj, Zeba I., Mohammad Umer Sharif Shohan, Sabrina M. Elias, Umme Habiba, Sudip Biswas, and Narendra Tuteja. "The scope of transformation and genome editing for quantitative trait improvements in rice." In *Advancement in Crop Improvement Techniques*, pp. 23-43. Woodhead Publishing, Elsevier 2020. <https://doi.org/10.1016/B978-0-12-818581-0.00002-4>
67. Seraj, Z.I., Elias, S.M., Biswas, S. and Tuteja, N., 2018. Helicases and Their Importance in Abiotic Stresses. In *Salinity Responses and Tolerance in Plants, Volume 2* (pp. 119-141). Springer, Cham. https://doi.org/10.1007/978-3-319-90318-7_6
68. MA Salam, MR Islam, MS Rahman, MA Rahman, MAR Bhuiyan, ZI Seraj, TL Aditya, MK Uddin, MK Mandal, AM Ismail, DL Adorada, RD Mendoza, EB Tumimbang-Raiz and GB Gregorio (2010) Rice varieties and cultural management practices for high and sustained productivity in the coastal wetlands of Bangladesh In *Tropical Deltas and coastal zones: Food production, communities and environment at the land-water interface* Eds: CT Hoanh et al CAB International Pp 183-198.
69. Hossain Mahabub and Seraj Zeba I (2008) Biotechnology for crop improvement global status and potential gains for Bangladesh In 'Emerging issues in Bangladesh economy', ed, Osmani SR, CPD, University Press Ltd, Dhaka, pp 83-100.
70. Zeba I Seraj, Laisa A Lisa, M Rafiqul Islam, Rokeya Begum and Deepok K Das (2006) Genetic diversity of saline coastal rice (*Oryza sativa* L) landraces of Bangladesh In *Abiotic stress tolerance of plants Towards the improvement of global environment and food* Eds Rai, Aswani K and Takabe Teruhiro Springer Verlag pp 229 244

71. Elahi CMF, Seraj ZI, Rasul NM, Das KC, Biswas K, Salam MA, GomostaAR, Tumimbang E, Adorada D, Gregorio G, Bennett J (2004). Breeding rice for salinity tolerance using the Pokkali allele: finding a linked DNA marker In: *In Vitro Culture, Transformation and Molecular markers for Crop Improvement*. Ed. Islam AS Science Publishers, Inc, USA, pp 157-170.
72. Seraj Z I, Khan H, Sarker RH, Khan S N and Islam AS (2004) *Harnessing Biotechnology In: Bangladesh in the New Millenium*, A Dhaka University Study Ed Abul Kalam, University Press Limited, Dhaka, Bangladesh, pp 393-421.
73. Seraj ZI, Hossain MB, Rasul NM, Akhter , Khan H, Hossain S, Salam MA and Gregorio G (2002) Agrobacterium mediated transformation of Bangladesh indica rice for conferring salt tolerance In: R Ahmad and KA Malik (eds) *Prospects for saline agriculture* Pages 167-176 Kluwer Academic Netherlands.
74. Islam AS Clark G and Seraj ZI 2004 Current strategies in molecular breeding to increase food production In *In vitro application in Crop Improvement* Eds Mujib A, Myeong-je C and Banerjee S Science Publishers Inc Enfield (NH), USA pp 203-216
75. Seraj ZI, Bose ML, Bashar MK and Hossain M. Rice biodiversity: use of this resource can be the key to sustainable rice production. In: *Proc. of the Bangladesh Rice Foundation seminar on the 'Next step in Rice'*, Jan. 29th, 2003. Ed. Bhuiyan SI. Bangladesh Rice Foundation.
76. Islam AS, Haque MM, Hoque MI and Seraj ZI (1992) Tissue Culture and micropropagation of jute (*Corchorus* spp) In: *Biotechnology in Agriculture and Forestry Vol 19 High tech and Micropropation III* Ed YPS Bagaj Springer Verlag, Berlin, Heidelberg PP 505-526
77. Knowler JT, McGregor CW and Islam Z (1986), Ribonucleoprotein particles containing heterogenous nuclear RNA In *Nuclear Structures: Their isolation and characterization* (MacGillivray A J and Birnie G D eds) PP 118-129 Butterworths Scientific, London.