

HABIBUL BARI SHOZIB, PhD.

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Objective: I would like to engage myself in sophisticated research and academic activities in biological sciences including cell physiology, biochemistry, molecular biology, clinical nutrition, and cereal chemistry.

Area of research experiences:

Subjects	Major responsibilities
Clinical Biochemistry	<ul style="list-style-type: none">Analyzing blood chemistry.Assaying hormones and secondary body metabolites in humans.Immune assay.
Cell Physiology and Proteomics	<ul style="list-style-type: none">Gut electrophysiology.Protein expression, isolation, and purification.
Cereal Chemistry and Nutrition.	<ul style="list-style-type: none">Physiochemical and nutraceutical characterization of rice grainMineral and vitamin profiling of HYVs rice varieties.Amino acid and Fatty acid profiling of rice grain.Baseline survey on dietary intake of street children of Dhaka city.Formulation of nutritionally balanced rice-based food items.
Microbiology	<ul style="list-style-type: none">Assessment of water quality and microflora of cultured Tilapia (<i>Tilapia Mossambica</i>) in lakes of Dhaka.
Molecular Biology and Plant Biotechnology	<ul style="list-style-type: none">Molecular marker-assisted selection (MAS) in molecular plant breeding in rice.QTL mapping in salinity tolerant landrace in Bangladesh.Gene expression by RT-PCR.Whole genome sequencing by NGS and Sanger sequencing.
Analytical Chemistry	<ul style="list-style-type: none">ISO 17025:2017 standards for testing laboratories for accreditation of quantification method of analysis.Vitamins and bioactive compound analysis by HPLCMineral and heavy metal analysis by AAS & ICP-OESMulti-residue pesticide, amino acid, and metabolic analysis by LCMS & LCMSMSGreenhouse gas and volatile compound analysis by GC, GCMS & GCMSMS

Education:

- PhD degree (Grade A) was awarded in Medical Science (Cell Physiology) from Nagoya University Graduate School of Medicine, Nagoya, Japan in September 2013.
- MS degree (2nd class) was attained in 2002 (Exam held in 2005) in Biochemistry and Molecular Biology from Dhaka University, Dhaka, Bangladesh.
- BSc degree (2nd class) was attained in 2001 (Exam held in 2004) in Biochemistry and Molecular Biology from Dhaka University, Dhaka, Bangladesh.
- HSC (Higher School Certificate) degree (1st division) was attained in 1997 from Dhaka College, Dhaka, Bangladesh.
- SSC (Secondary School Certificate) degree (1st division) was attained in 1995 from Motijheel Ideal High School. Dhaka, Bangladesh.

Other qualifications:

- Higher Diploma in IT System Management (Grade B) from NIIT, Beximco system. Dhaka, Bangladesh in 2004.
- Business English Certificate Vantage1 course. (February 17, 2007 to April 16, 2007) at British Council, Dhaka, Bangladesh.
- Technical Assessor of Bangladesh Accreditation Board (BAB), Ministry of Industries. (ISO17025:2017 standards for testing and calibration laboratories)

Job experiences:

Position	Duration	Division, Institute	Major research activities
Senior Scientific Officer (SSO) & Deputy Program Director (DPD as Deputation)	February, 2024 to 2028	BP-ATC, BARC	Developing and functioning BP-ATC center at BIRRI
SSO & Quality Manager (QM as Additional Charge)	July 2021 to today	Rice Analytical Laboratory (RAL), BIRRI, (Deputation)	Accreditation of BIRRI central Laboratory (ISO17025;2017 standards)
SSO & Program Director (PD as Deputation)	July 2019-June, 2022	BIRRI Central Laboratory (BCL), BIRRI, Ministry of Agriculture (MoA). (Deputation)	Establishment of BIRRI Central Laboratory
Senior Scientific Officer (SSO)	23 rd September 2014 to today	Grain Quality and Nutrition (GQN) Division, Bangladesh Rice Research Institute (BIRRI) Gazipur	1. Nutraceutical rice research activities. 2. Formulation of rice-based food items
Researcher	20 th October 2013 to 22 nd September 2014	Plant Biotechnology Laboratory, Department of Biochemistry and Molecular Biology, Dhaka University	1. Molecular marker-assisted selection (MAS) in molecular plant breeding in rice. 2. QTL mapping in salinity tolerant landrace in Bangladesh.
PhD Candidate	October 2009 to September 2013	Cell Physiology Laboratory. Department of Cell Information Medicine. Nagoya University Graduate School of Medicine. Nagoya, Japan	1. Measurement of ileal pacemaker activity in mice's small intestinal tract. 2. Spatial-temporal analyses of ileal pacemaker activity in the small intestinal tract of diseased model mice like IL-10 knockout (IBD disease) and SERT knockout.
Senior Research Associate	April 2008 to September 2009	Plant Biotechnology Laboratory, Department of Biochemistry and Molecular Biology, Dhaka University	1. Molecular marker-assisted selection (MAS) in molecular plant breeding in rice. 2. QTL mapping in salinity tolerant landrace in Bangladesh. 3. Managing laboratory equipment.
Visiting GCP Research Fellow	September, 2007 – March, 2008	Crop Science and Environmental Science (CESD), IRRI, Philippines	1. Identification of salinity tolerant QTL from Bangladeshi landraces Boilam using molecular marker technology.
Research Associate	July 2006 to August 2007	Plant Biotechnology Laboratory, Department of Biochemistry and	1. Molecular marker assisted selection (MAS) in molecular plant breeding in rice.

		Molecular Biology, Dhaka University	2.QTL mapping in salinity tolerant landrace in Bangladesh.
Clinical Biochemist	November 2005 to June 2006	Prime Diagnostic Laboratory Ltd. 36, Purana Paltan Line, VIP Raod Dhaka, Bangladesh. Contact 8313215, 9334060	1.Clinical Biochemistry (Body metabolites assay). 2.Immunological-assay. 3.Hepatitis-assay. 4.Cancer Marker-assay. 5.Serological assay
Postgraduate student	February, 2005 – October, 2005	Department of Biochemistry and Molecular Biology, Dhaka University, Ramna, Dhaka-1000, Dhaka, Bangladesh	1.Study the water quality of Dhaka city lakes. 2.Microbial effects on cultured Tilapia fishes in Bangladesh (<i>Tilapia nilotica</i>)

Trainer and Course Coordinator:

1. International Rice Research Institute (IRRI) selected me as a resource personal for the GCP (Generation Challenge Program) Training workshop on Marker Assisted Breeding for Bangladesh at Bangladesh Rice Research Institute (BRRI) which was held from 18th November to 27th November 2008, at BRRI, Gazipur, Bangladesh.
2. Act as a training expert on nutrition for 2 months long rice production training for agriculture extension officers from 2018 to today.
3. Trainer and course Coordinator of a three-day long hands-on training on HPLC method development at Grain Quality and Nutrition, Division, BRRI, Gazipur 3 days, 17th to 19th December 2019
4. Trainer of a 12 days long hands-on training on grain quality assessment for ACI and IRRI scientists at Grain Quality and Nutrition, Division, BRRI, Gazipur.12 days, 1-12 September 2019
5. Trainer and Course Coordinator of a five-day long training entitled on the introduction of ISO17025;2017 standards which was held on 13-17th September 2020 at the training division of BRRI, Gazipur.
6. Trainer and Course Coordinator of a five-day long training entitled to Hands-on training in PCR, Realtime PCR, and LCMS which was held on 13-17th September 2020 at the training division of BRRI, Gazipur.
7. Trainer and Course Coordinator of a 10-day long training entitled Hands-on training in AAS, HPLC, LCMS, and ICPOES which was held from 22 December 2020 to 1st January 2021 at the training division of BRRI, Gazipur.
8. Trainer of a 10-day long training entitled Hands-on training in Laboratory Management which was held from 6th June 2021 to 17th June 2021 at the training division of BRRI, Gazipur.
9. Trainer of a 10-day long training entitled Hands-on training in Molecular Biology Techniques and Basics of Bioinformatics which was held from 16th August 2021 to 29th August 2021 at the training division of BRRI, Gazipur.
10. Regular trainer of modern rice cultivation for Sub-Assistant Agricultural Officer (SSO) from 2022 to today (Every week)

Organizer:

1. Successfully organized 1st National workshop on CRISPR-Cas9 genome editing technology as GNOBB EC member on 28th March. 2017 at Center for Advance Research in Sciences (CARS), Dhaka University, Bangladesh.
2. As a GNOBB EC and Conference Organizing Committee (COC) member, I am actively engaged in organizing an international conference on biotechnology in health and agriculture (ICBHA 2017) in Dhaka, Bangladesh on 29-30 December 2017. <http://gnobb.org/conference/organizer>.

3. As a GNOBB EC and Conference Organizing Committee (COC) member, I am actively engaged in organizing 5th International Conference on Biotechnology in Health and Agriculture (ICBHA) as a joint conference with the Bangladesh Biosafety and Biosecurity Society (BBBS) and the Federation of Asian Biotech Associations (FABA). The Conference was held from September 1 to 3, 2023. <https://gnobb.org/conference/5th-icbha-2023-conference>

Extracurricular volunteer activities during the COVID-19 pandemic:

Serving as a Volunteer Molecular Biologist in setting up RTPCR laboratory facilities in several medical hospitals, training medical professionals including doctors, technicians, and students during the COVID-19 pandemic in Bangladesh from March 2020 to June 2020 as frontliner.

- https://bangla.bdnews24.com/bangladesh/article1762063.bdnews?fbclid=IwAR3V8nLD RXGqdU5ZiFSxDILTK3D3PDK0Eah_r_a8Zsj8KH6NFbR9-HqdeLo
- <https://www.facebook.com/voabangla/videos/279740179689756/?t=8>
- https://www.uttorbangla.com/199673?fbclid=IwAR3F5PMOZkMlyRekwFjxw3Yp2KkZ 9vm-44aY0zKDvU72k5M4HmAjUXe3yU#.XpX5vvt_SM.facebook

Publications: (45)

1. Md. Manjurul Haque, Md. Rahat Bari Rupok, Md. Abul Hossain Molla, Md Mizanur Rahman, **Habibul Bari Shozib**, Md Khaled Mosharaf. Rhizoengineering with biofilm producing rhizobacteria ameliorates oxidative stress and enhances bioactive compounds in tomato under nitrogen-deficient field conditions. **Heliyon**. July 08, 2024. DOI://doi.org/10.1016/j. Heliyon.2024.e34276
2. SAJ Quazi, J ferdous, **HB Shozib**, A Khaton , Najam Waris Zaidi Role of *Trichoderma asperelloides* and *Trichoderma brevicompactum* in improving drought tolerance in rice. **Plant Stress**. Volume 12, June 2024, 100457
3. Md Alauddin,Afroza Sultana, Md. Omar Faruque, Fariha Islam, Md. Alamgir Kabir, **Habibul Bari Shozib**, Muhammad Ali Siddiquee and Zakir Hossain Howlader. Functional evaluation of fermented rice bran and extracted rice bran oil addressing human health benefit. **J. Oleo Sci**. Vol.73. No.3 (2024).
4. Kazi Turjaun Akhter, **Habibul Bari Shozib**, Md. Hafizul Islam, Sneha, Sarwar, Md. Mariful Islam, Md. Rubel Akanda, Muhammad Ali Siddiquee, Md. Mohiduzzaman, Abu Torab MA Rahim, Nazma Shaheen. Variation of major nutrient composition of dominant high-yield varieties (HYVs) due to parboiling and polishing of rice in Bangladesh. **Foods** 2023, 12(21), 3997; <https://doi.org/10.3390/foods12213997>
5. Mahmuda Umme Rayhan, **Habibul Bari Shozib**, Fardous Mohammad Safiul Azam, Tofazzal Islam, Variability in 2-acetyl-1-pyrroline production and associated mutations in BADH2 gene in aromatic rice cultivars of Bangladesh, **Gene Reports**, 2023,101847, ISSN 2452-0144,<https://doi.org/10.1016/j.genrep.2023.101847>.
6. Md. Forshed Dewan, Md. Ahiduzzaman, Md. Nahidul Islam, **Habibul Bari Shozib**, Potential Benefits of Bioactive Compounds of Traditional Rice Grown in South and South-East Asia: A Review, **Rice Science**, 2023, ISSN 1672-6308, <https://doi.org/10.1016/j.rsci.2023.07.002>.
7. Md. Manjurul Haque, Md. Sanaullah Biswas, Md Khaled Mosharaf, Md. Amdadul Haque, Md. Shahidul Islam, Kamrun Nahar, Md. Mynul Islam, **Habibul Bari Shozib**, Md. Mariful Islam & Ferdous-E-Elahi. **Scientific Report** 12, 5599 (2022). <https://doi.org/10.1038/s41598-022-09519-9> Halotolerant biofilm-producing rhizobacteria mitigate seawater-induced salt stress and promote growth of tomato.

8. Afroza Sultana, Mohammad Zinnah, **Habibul Bari Shozib**, Zakir Howlader, Md. Alauddin. Functional profiling and future research direction of rice bran oil in Bangladesh. **Journal of Oleo Science**, 202, J. Oleo Sci. **70**, (11) 1551-1563 (2021). doi: 10.5650/jos.ess21212
9. Saima Jahan, Sultan Abu Saleh Mahmud, Iftekharul Haq Chowdury, Muhammad Ali Siddiquee and **Habibul Bari Shozib**. Formulation of rice based low cost balanced, nutritious and safe diet for the malnourished children. **Acta Scientific Nutritional Health**. 2021, June 30, 2021; Volume 5 Issue 7: 97-106. DOI: 10.31080/ASNH.2020.05.0899.
10. **Habibul Bari Shozib**, Md. Mariful Islam, Sultan Abu Saleh Mahmud, Md. Nazmul Bari, Nasima Akter, Saima Jahan, Shakir Hosen, Mohammad Nazir Hossain, A.H.M. Nurun Nabi, Muhammad Ali Siddiquee and Md. Manjurul Haque. Application of Cyanidin-3-Glucosides as a functional food ingredient in rice-based bakery products. **Saudi Journal of Biological Science**, 23 August 2021, doi.org/10.1016/j.sjbs.2021.08.042
11. Mahmuda Khatun, **Habibul Bari Shozib**, Tomoko Yamaguchi, Hitoshi Takamura and Teruyoshi Matoba. Characterization of antioxidant properties of common spices and effect of thermal treatment on their antioxidant activity. **EC Nutrition** 2021, 16 (6).
12. **HB Shozib**, MA Siddiquee, NMF Rahman, MAA Mamun, MAR Sarkar, S M H A Rabbi, M U Salam and M S Kabir. Grain quality research of rice for ensuring nutritional food security. **Bangladesh Rice Journal**, 2020, 24 (2).
13. Kabir M S, M U Salam, A K M S Islam, M A R Sarkar, M A A Mamun, M C Rahman, B Nessa, M J Kabir, **H B Shozib**, M B Hossain and A Chowdhury. Doubling rice productivity in Bangladesh: A way to achieving SDG and moving forward. **Bangladesh Rice Journal**, 2020, 24(2).
14. Md. Anwarul Haque, Nilufa Ferdous, **Habibul Bari Shozib** and Shamima Akter. Detection and quantification of heavy metals and toxins in rice bran related products. **IJRDO - Journal of Biological Science**, 2020, 6 (12) 1-9
15. Md. Manjurul Haque, Md. Khaled Mosharaf, Moriom Khatun, Md. Amdadul Haque, Md. Sanaullah Biswas, Md. Shahidul Islam, Md. Mynul Islam, **Habibul Bari Shozib**, Md. Main Uddin Miah, Abul Hossain Molla, Muhammad Ali Siddiquee. Biofilm producing rhizobacteria with multiple plant growth-promoting traits promote growth of tomato under water-deficit stress. **Front. Microbiol.** 2020 11:542053. DOI: 10.3389/fmicb.2020.542053.
16. Mohammad Azizur Rahman¹, Jannatul Ferdous, Shakir Hosen, Mahmudul Hasan, Afroza Parvin, **Habibul Bari Shozib**. Hypercholesterolemia ameliorating effect of Bangladeshi high yield variety rice bran oil. **International Journal of Advanced Biological and Biomedical Research**, 2020 Volume 9, Issue 1, pp. 48-57.
17. Nilufa Ferdous, M. Zakir Hossain Hawlader, Sunil Kumar Biswas, M. Akhlasur Rahman, Shakir Hosen, **Habibul Bari Shozib**, Tapash Kumar Sarkar, Md. Anwarul Haque and Muhammad Ali Siddiquee. Bio-physicochemical study for glutinous and nonglutinous rice with genetic diversity of Bangladeshi rice germplasm. **IJRDO - Journal of Biological Science**, March, 2020, 6(3)1-15.
18. B C Nath, MGK Bhuiyan, MM Haque, D Chanda, MA Rahman, **H B Shozib**, 2019. Use of Zn enriched rice byproduct as Zn fertilizer. *Journal of Agricultural Engineering*. **The Institution of Engineers**, Bangladesh, Vol. 42/AE Number 2, September 2019 Page: 59-62
19. Reemana Fatema, Jamilur Rahman, **Habibul Shozib**, Mohammad Nazrul, Kaniz Fatima. Genetic Diversity and Nutritional Components Evaluation of Bangladeshi Germplasms of Kidney Bean (*Phaseolus vulgaris* L.). **J Genet Resour** 2019 ;5(2): 83-96.
20. **Habibul Bari Shozib**, Shakir Hosen, Md. Mehdi Hasan, Md Abu Sayed, Suman Chandra Das, Md. Samsul Alam, Armin Bhuiyan, Saima Jahan and Muhammad Ali Siddiquee. Physicochemical and cooking properties of short grain aromatic kalijira rice cultivars in Bangladesh. **Biores Comm.** 2019, 5:1:659-669.

21. Muhammad Anwarul Haque, Md. Abu Sayed, Mahfuzul Alam, Saima Jahan **Habibul Bari Shozib**, Post-harvest loss minimization of rice bran for quality bran oil production in Bangladesh. **EC Nutrition**, 2018, 13.11: 667-75.
22. **Habibul Bari Shozib**, Sultan Abu Saleh Mahmud and Muhammad Ali Siddiquee. Energy dense rice biscuit formulation to improve malnutrition status of urban street children in Bangladesh. **J Food Nutr Health** (JFNH), 2018, 1:1:16-19.
23. **Habibul Bari Shozib**, Editorial on: Nutraceutical properties of Bangladeshi rice varieties. **Vitam Miner** 2018, 7:4:175.
24. **Habibul Bari Shozib**, Sultan Abu Saleh Mahmud, Rifat Bin Amin, Mohammad Nazir Hossain, Jiban Krishna Biswas, Jagadish Timsina, Muhammad Ansar Ali, Muhammad Ali Siddiquee. Nutraceutically Enriched Rice-Based Food to Mitigate Malnutrition in Bangladesh. **EC Nutrition**, 2018, **13:5:240-49**.
25. **Habibul Bari Shozib**, Saima Jahan, Muhammad Zakir Sultan, Samsul Alam, Suman Chandra Das, Rifat Bin Amin, Mahedi Hasan and Muhammad Ali Siddiquee. Nutritional Properties of Some BRRI HYV Rice in Bangladesh. **Vitam Miner**, 2018, **7: 1: 174**. doi:10.4172/2376-1318.1000174
26. **Shozib, H.B.**, Hossain, M.M., Jahan S., Alam, M.S., Das, S.C., Alam, S., Amin, R.B., Hasan, M.M., Malo, R., Islam, M.R., Shekhar, H.U., Siddiquee, M.A. Study of biochemical and cooking quality traits of major rice varieties of Bangladesh. **Malays. Appl. Biol.** (2017) 46(4): 55–62
27. Muhammad Ali Siddiquee, **Habibul Bari Shozib**, Saima Jahan. Prospects of Bangladeshi antioxidant enriched HYV rice and its bran oil. Full length conference paper in the 4th International Conference on **Rice Bran Oil 2017 (ICRBO 2017)** Rice Bran Oil Application: Pharma-Cosmetics, Nutraceuticals and Foods 24-25 August 2017, P:3-8.
28. **Habibul Bari Shozib**, Saima Jahan, Suman Chandra Das, Samsul Alam, Rifat Bin Amin, Mahedi Hasan, Richard Malo and Muhammad Ali Siddiquee. Mineral profiling of HYV rice in Bangladesh. **Vitam Miner**, 2017, 6: 164. doi:10.4172/2376-1318.1000164
29. **Habibul Bari Shozib**, Salinity tolerance QTL mapping from Coastal Aus Landrace Boilam. **IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB)** 3(6)2017: 30-35, doi: 10.9790/264X-03063035.
30. **Shozib HB**, Editorial Notes on Vitamins & Minerals, **Vitam Miner** 6:4. 6:e151. 2017, Doi: 10.4172/2376-1318.1000e151
31. Siddiquee M.A., Jahan S., Kabir Y., **Shozib H.B.** BRRI dhan31 generate elevated level of bioactive component, γ -aminobutyric acid (GABA) at pre-germinated brown rice condition. **International Journal of Scientific Research (IJSR)**, 2017, 6 (7) 511-513
32. **Habibul Bari Shozib**, Shourab Bhowmick, Saima Jahan, Muhammad Ali Siddiquee. In vivo screening for low glycemic index (GI) rice varieties in Bangladesh and evaluate the effect of differently processed rice and rice products on GI. **Biojournal of Science and Technology**, July 2017, Vol 5, Article no: m170001 (ISSN 2410-9754).
33. Shakir Hosen, Saima Jahan, Md Mahfuzur Rahman, Muhammad Ali Siddiquee, **Habibul Bari Shozib**, Grain quality evaluation and comparative analysis of physicochemical properties of traditional cultivars and high yielding (HYV) Aman rice varieties in Bangladesh. **Biojournal of Science and Technology**, July, 2017, Vol 5, Article ID: m160004. (ISSN 2410-9754).
34. Shakir Hosen, Md. Abdur Rahman, Saima Jahan, Muhammad Ali Siddiquee, **Habibul Bari Shozib**. 2016, Characterization of grain quality of selected Aus landraces in Bangladesh. **International Journal of Sustainable Agricultural Technology** 12(11): 07-13, November 2016. (ISSN: 1815-1272).

35. Shakir Hosen, Md. Rakib Ullah, Saima Jahan, Muhammad Ali Siddiquee, **Habibul Bari Shozib**, 2016, Physicochemical and cooking quality of selected traditional Boro rice varieties of Bangladesh. **International Journal of Sustainable Agricultural Technology** (Int. J. Sustain. Agril. Tech.) 12(11): 01-06, November 2016. (ISSN: 1815-1272).
36. Hosen, S., Siddiquee, M. A., Jahan, S., Alam, M. S., Hoque, F., Bhowmick, S., Ferdous, N, **Shozib, H.B.** 2016. Physicochemical properties of Aus cultivars in Bangladesh. **Biores Comm.** 2(1), 200-204. (ISSN 2411-0272).
37. **Habibul Bari Shozib**, Saima Jahan, Shourab Bhowmick, Farzana Hoque, Darmin Chakma, Mahmud Hosain, Mohammad Omar Faruque, Md. Sazzadur Rahman, Muhammad Ali Siddiquee, 2015, Dietary administration of rice in improving the antioxidant status in Long-Evans Rat. **Bio journal of Science and Technology**, 2015, Volume 2:1-7. (ISSN: 2410-9754)
38. Shakir Hosen, Muhammad Ali Siddiquee, Saima Jahan, Nilufa Ferdous, **Habibul Bari Shozib**, 2015, Comparative study on physicochemical properties of some HYV and local aman cultivars in Bangladesh. **International Journal of Sustainable Agricultural Technology** IJSAT 2015:11(2) 1-5. (ISSN: 1815-1272)
39. Sabrina M. Elias, Rokeya Begum, Md. Sazzadur Rahman, Afroza Ferdouse, **Habibul B. Shozib**, Md. Muntasir Ali, Zeba I. Seraj, 2014, Genotypic and phenotypic relatedness of a farmer-discovered variant with high-yielding rice growing in the same field. **Plant Syst Evol.** 4th June, 2014 (Online): DOI 10.1007/s00606-014-1085. (ISSN: 2199-6881)
40. Mizuki Taniguchi, Shunichi Kajioka, **Habibul B. Shozib**, Kenta Sawamura, Shinsuke Nakayama, 2013, Spatial analysis of slowly oscillating electric activity in the gut of mice using low impedance arrayed microelectrodes. **PLOS ONE** 2013 Oct; DOI: 10.1371/journal.pone.0075235. (ISSN: 1932-6203)
41. **Habibul B. Shozib**, Haruhiko Suzuki, Satoshi Iino, Shinsuke Nakayama, 2013, Acceleration of Ileal Pacemaker Activity in Mice Lacking Interleukin-10. **Inflamm Bowel Dis.** 2013 Jul; 19(8):1577-85. (ISSN: 1536-4844)
42. **H.B. Shozib**, E.K.Chowdhury and S.R. Alim, 2007, Bacteriological analysis of cultured Tilapia and the rearing water. **The Dhaka University Journal of Biological Sciences.** Volume 16. No 2. July, 2007, P.P:143-47. (ISSN 1021-2787)
43. S.Ahmed, S.Shahnaz, **H.B. Shozib**, E.K. Chowdhury and S.R.Alim,2007, Association of potential bacteria in the intestine and kidney of some fresh water fishes available at the local market of Dhaka city. **The Dhaka University Journal of Biological Sciences.** Volume 16. No 2. July, 2007, P.P:161-164. (ISSN 1021-2787)
44. M Nasir Uddin, Akim Uddin Mohammad, **Habibul Bari Shozib**, Tanveer Tazib, Nuruzzaman Masum, ASM Matlubur Rahman, Donald J Gomes, 2006, Evaluation of prostate specific antigen levels in sera of patients with prostate diseases using ELISA. **Bangladesh Journal of Medical Science.** Volume12; Number2, September. 2006, P.P:98-102. (ISSN:1607-0755)
45. M Nasir Uddin, Baigid Alam Shibib, Akim Uddin Mohammad, Tanveer Tazib, Rasel Ahsan, **Habibul Bari Shozib**, Nuruzzaman Masum, Donald J Gomes, 2006, Changes in physiological properties of soyabean oil under various conditions. **Bangladesh Journal of Medical Science.** Volume 12. Number 1, March. 2006, P.P:28-34. (ISSN:1607-0755).

Submitted articles (3)

1. Sayma Alam, Md. Hafizul Islam, Sneha Sarwar, Kazi Turjaun Akhter, **Habibul Bari Shozib**, Mohammad Moniruzzaman, Nazma Shaheen, Comparative study on the nutritional composition of

small and large size Tenuulosa ilisha of Meghna River, Bangladesh, Manuscript Number: FOODRES-D-24-07012 (Submitted in Food Research International)

2. **Habibul Bari Shozib**, Shah Ashadul Islam, Ripon Kumar Roy, Md. Abdullah Al Mamun, Md. Mariful Islam, Md. Rubel Akanda, S.M. Hisam Al Rabbi, Masuda Akter, Nasima Akter, Md. Nazmul Bari. Detection of novel volatile compounds of Bangladeshi aromatic rice by Headspace solid-phase extraction GCMS method (Submitted in Journal of Agriculture and Food Research JAFR-D-24-01061)
3. Shakir Hosen, **Habibul Bari Shozib**, Shah Ashadul Islam, Md Mariful Islam, Md Rubel Akanda, Abdullah Al Saba, A.H.M. Nurun Nabi, Physicochemical, antioxidant properties and gene expression study of pigmented and non-pigmented rice cultivars of Bangladesh (Submitted in Journal of Agriculture and Food Research JAFR-D-24-01060)

Booklet and Book Chapter (5)

1. Md. Anwarul Haque and **Habibul Bari Shozib**. Post-harvest loss minimization of rice bran for quality rice bran oil. BRRI publication 261 (20 pages), 2018.
2. Md. Anwarul Haque, Nilufa Ferdous and **Habibul Bari Shozib**. Detection and quantification of heavy metals and toxins in rice bran related product: Use of spent bleaching earth as fertilizer. BRRI publication 278 (24 pages), 2019.
3. **Habibul Bari Shozib**. Nutraceutical aspects of rice and rice-based food items to mitigate malnutrition in Bangladesh. Trends in Biochemistry and Molecular Biology, 2019. Chapter 5, Pages 111-26, Nova Science Publishers, USA
4. **Habibul Bari Shozib**, Muhammad Ali Siddiquee, Niaz Md. Farhat Rahman, Md. Abdullah Al Mamun, Md. Abdur Rouf Sarkar, S. M. Hisam Al Rabbi, Moin U. Salam and Md. Shahjahan Kabir. Chapter 5: Grain quality research of rice for ensuring nutritional food security. Bangladesh Rice Journal, 2020
5. Md. Anwarul Haque, Nilufa Ferdous, **Habibul Bari Shozib** and Shamima Akter. A study on the detection and quantification of heavy metals (As, Pb, Cd, Cr, and Ni) and toxins in rice bran-related products. Current Perspective of Agriculture and Food Science, B P International, 7th July 2023.

Editorial member of Journals:

1. Member of Editorial Board, Journal of Vitamins and Minerals (ISSN: 2376-1318), Halaris SRL publisher USA. <https://www.omicsonline.org/editor-profile/habibul-bari-shozib/> (International)
2. Member of Editorial Board (2023-2025), Bangladesh Association for Plant Tissue Culture & Biotechnology (BAPTC&B), Department of Botany, University of Dhaka, Bangladesh. <https://www.bap tcb.org/page/editorial-board/4> (National)

International Reports: (2)

1. Russell Reinke, Raul Boncodin, Don MacKenzie, Mallikarjuna Swamy, Inez Slamet Loedin, Rudi Trijatmiko, Norman Oliva, Temina Lalani-Shariff Martijn Pakker, Aileen Garcia, Patricia Vega, Rey Ordonio, Ronan Zagado, Jessie Beltran, Fe Bongat, Md. Abdul Kader, Md. Abdul Momin, Muhammad Ali Siddiquee, **Habibul Bari Shozib**, Ibrahim Saiyed, Mahjabeen Rahman, Ahmed Salahuddin, Noel Magor, Rajib Bhowmick, Sadikur Rahman, Munia Hoque, 2021. Annual Report 2020: Healthier Rice Project, January 28, 2021, 1-107.
2. Russell Reinke, Raul Boncodin, Don MacKenzie, Mallikarjuna Swamy, Inez Slamet-Loedin, Rudi Trijatmiko, Norman Oliva, Temina Lalani-Shariff Martijn Pakker, Aileen Garcia, Patricia Vega, Rey Ordonio, Ronan Zagado, Jessie Beltran, Fe Bongat, Md. Abdul Kader, Md. Abdul Momin, Muhammad Ali Siddiquee, **Habibul Bari Shozib**, Ibrahim Saiyed, Mahjabeen Rahman, Ahmed Salahuddin, Noel Magor, Rajib Bhowmick, Gloria Das, Munia Hoque. Healthier Rice Mid-Year Report 2021, Report compiled June 30, 2021

Product Development: (10)

1. Rice-based low-cost, nutritionally balanced bakery food items formulation.
2. Energy-dense rice cake (ED 5.02) formulation for emergency relief operations, disaster management, school feeding nutritional, and malnutrition mitigation programs as a dry food supplement.
3. Energy-dense rice biscuit (ED 5.20) formulation for emergency relief operation, disaster management, school feeding nutritional, and malnutrition mitigation programs as a dry food supplement.
4. In-house method development for detection and quantification of aflatoxins in rice grain matrix by LCMSMS.
5. In-house method development for detection and quantification of bioactive compound (cyanidin 3 glucoside, C3G) in rice matrix by HPLC.
6. In-house method development for detection and quantification of quantification method of aroma (2AP) in rice matrix by GCMS.
7. In-house method development for detection and quantification of quantification method of total and inorganic arsenic in rice matrix by ICPOES.
8. In-house method development for high molecular weight genomic DNA (HMW gDNA) extraction protocol from rice plant.
9. In-house method development for measurement of in-vivo Glycemic Index (GI) of rice by animal experiment.
10. In house method development for measuring GABA in rice

Abstracts in Proceeding papers:

1. Habibul Bari Shozib (Keynote speaker). Advanced nutraceutical research activities of BRRI to mitigate malnutrition of the Bangladeshi population. 5th International Conference on Biotechnology in Health and Agriculture (ICBHA) as a joint conference with the Bangladesh Biosafety and Biosecurity Society (BBBS) and the Federation of Asian Biotech Associations (FABA). The Conference was held from September 1 to 3, 2023.
2. In vivo screening for low Glycemic Index (GI) rice varieties in Bangladesh and evaluate the effect of differently processed rice and rice products on GI. **Habibul Bari Shozib**, Saima Jahan, Muhammad Ali Siddiquee. 8th International Plant Tissue Culture & Biotechnology Conference, December 3-5, 2016. Dhaka University.
3. To evaluate the effect of differently processed rice and rice products on glycemic index (GI), Saima Jahan, **Habibul Bari Shozib**, Farzana Hossain Tamanna. International Conference on analysis of repeated measures data, 25 - 26 November, 2016. Dhaka University.
4. BRRI dhan28: A potential source of rice bran oil in Bangladesh. Muhammad Ali Siddiquee, Taposh Kumar Sarkar, **Habibul Bari Shozib**. The 3rd International Conference of Rice Bran Oil (ICRBO 2016), ITO International Research Center, The University of Tokyo, Tokyo, JAPAN, October 24 - 25, 2016.
5. Pre-germinated brown rice generates the elevated level of bio-active component, γ -aminobutyric acid (GABA). Muhammad Ali Siddiquee, **Habibul Bari Shozib**, Saima Jahan, Yarul Kabir. Proceedings of National conference on Biochemistry, Industry and Sustainable Economy, Dhaka University, 21 March, 2015:29-31.
6. Comparative study on Apparent Amylose Content and Protein in Bangladeshi rice cultivars. **Habibul Bari Shozib**, Saima Jahan, Muhammad Ali Siddiquee. Proceedings of National

- conference on Biochemistry, Industry and Sustainable Economy, Dhaka University, 21 March, 2015:101-102
7. Physicochemical properties of some aman cultivars in Bangladesh. Shakir Hosen, Muhammad Ali Siddiquee, Saima Jahan, Nilufa Ferdous, **Habibul Bari Shozib**. Proceedings of National conference on Biochemistry, Industry and Sustainable Economy, Dhaka University, 21 March, 2015:138-140.
 8. Ileal pacemaker activity analysis by microelectrode array (MEA) in mice lacking interleukin-10. **Habibul Bari Shozib**, Saima Jahan, Muhammad Ali Siddiquee, S. Nakayama. Proceedings of International Conference of Biotechnology in Health and Agriculture 2nd GNOBB Conference, Dhaka, Bangladesh. 2015; 57-58.
 9. Comparative study on phytic acid content of traditional and HYV rice in Bangladesh. MA Siddiquee, **HB Shozib**, S Hosen and Y Kabir. Proceedings of 6th international Botanical Conference, Dhaka University, 2014:7
 10. Microelectrode analysis of gut pacemaker activity in mice lacking IL-10. **Shozib. HB**, Suzuki, H, Nakayama, S. Physiology 2012 (Edinburgh) (2012) Proc Physiol Soc 27, PC163.
 11. Microelectrode Array analysis of ileal pacemaker activity in mice lacking IL-10. **Shozib, Habibul Bari**, Nakayama, Shinsuke, Suzuki, Haruhiko. The Journal of Physiological Sciences Vol 63-supplement 1, 2013(3PK-071, P-S251). Proceedings of the 90th Annual Meeting March 27-29, 2013, Tokyo, Japan.
 12. Cooperative gut motility requires the network of pacemaker cells. Nakayama, Shinsuke, Taniguchi, Mizuki, **Shozib, Habibul Bari**. The Journal of Physiological Sciences Vol 63-supplement 1, 2013(2MS4B-4P-S15). Proceedings of the 90th Annual Meeting March 27-29, 2013. Tokyo, Japan.
 13. Identification of salt tolerance QTLs in the rice landrace, Boilam and their introgression into farmer popular varieties. **H.B. Shozib**, M.J. Thomson, M.A. Salam, A.M. Ismail and Z.I. Seraj. Proceedings of Bangladesh Plant Tissue Culture and Biotechnology, Conference 2008 at Dhaka University, Dhaka, Bangladesh.2008:43
 14. Identification of quantitative trait loci for salinity tolerance to rice in an advanced backcross population derived from two indica varieties, Boilam and BRRI Dhan 27. **HB Shozib**, MJ Thomson, MS Rahman, MA Salam, AM Ismail and ZI Seraj. Proceedings of GCP Annual Research Meeting, Bangkok, Thailand 16-20 September, 2008:3.5(36).

Inter institutional Series Seminar: (8)

1. **Habibul Bari Shozib**. Prospects of rice-based bakery products in Bangladesh, Presented in Thursday seminar on 11 October 2020 at Zoom platform, BRRI, Gazipur.
2. **Habibul Bari Shozib** and Muhammad Ali Siddiquee, Nutraceutical properties of rice and prospect of rice based food items in Bangladesh. Presented in Thursday seminar at BRRI auditorium on 9th August, 2018.
3. Muhammad Ali Siddiquee, **Habibul Bari Shozib**, Md Alauddin. Current trends in rice bran oil (RBO) research activities in Bangladesh. Presented in Thursday seminar at BRRI auditorium on 12th October, 2017.
4. **Habibul Bari Shozib** and Muhammad Ali Siddiquee, 2017, Nutraceutical aspect of rice and rice products-GQN activities in BRRI. Presented in Thursday seminar at BRRI auditorium on 6th April, 2017.
5. Muhammad Ali Siddiquee and **Habibul Bari Shozib**, 2017, Emerging prospects of rice bran oil (RBO) - Bangladesh context. Presented in a special seminar at BRRI auditorium on 18.01.2017.

6. Muhammad Ali Siddiquee and **Habibul Bari Shozib**, 2016, A study on Glycemic Index (GI) of rice and rice based diet. Presented in Thursday seminar at BIRRI auditorium on 1.09.2016.
7. Muhammad Ali Siddiquee and **Habibul Bari Shozib**, 2015, Recognizing and Assessing Biological Hazards in the Laboratory. Presented in Thursday seminar at BIRRI auditorium on 11.06.2015.
8. **Habibul Bari Shozib** and Muhammad Ali Siddiquee, 2015, Bridge between rice and human physiology – an experimental rat model view. Presented in Thursday seminar at BIRRI auditorium in 2015.

Few selected meetings, conferences, workshop, training and courses:

1. Participated in an International workshop entitled on “Molecular characterization of inbred lines and heterogeneous populations in Maize.” Which was held on April 1-3, 2007, IARI, New Delhi, India and sponsored by GCP and CIMMYT.
2. Participated in a course entitled on “Basic experimental design and data analysis using CropStat” which was held on February 18-22, 2008 at IRRI, LosBanos, Laguna, Philippines and sponsored by IRRI.
3. Participated in an inception meeting of GCP funded project entitled on Speeding the development of salt-tolerant rice varieties through Marker-Assisted Selection (MAS) and their dissemination in salt-affected areas of Bangladesh which was held on 29th March 2008 at IRRI, Bangladesh office, Dhaka, Bangladesh.
4. Participated in a workshop entitled on “Candidate gene discovery” which was held on 14-15th September, 2008, at Bangkok in Thailand and sponsored by GCP and BIOTECH, Thailand.
5. The 2nd International Symposium "Novel Approaches for Neurological and Psychiatric Disorders" 3-3, Sakae 1-chome, Naka-ku, Nagoya, Japan 26-27 November, 2009.
6. 3rd GCOE NAGOYA Global Retreat, February 26 -27, 2011, Aichi Kenko Plaza, Japan.
7. Physiology 2012, 2-5 July, Edinburgh international conference center, Edinburgh, UK.
8. Project Development and Management related training at Bangladesh Agriculture Research Council (BARC), Dhaka, Bangladesh from 4-11 December, 2014.
9. Training on “Phytosanitary measures and food safety issues in Bangladesh” organized by Bangladesh Agriculture Research Council (BARC), Dhaka, Bangladesh from 7-8th June, 2015.
10. 58rd training programme on HPLC (High Performance Liquid Chromatography) Center for Advanced Research in Sciences (CARS), University of Dhaka, Dhaka. 15 days, 1st to 15th October, 2015
11. Two-month long rice production and communication training course organized by Training Division, BIRRI, Gazipur-1701 from 29th February to 28th April, 2016.
12. Consultation meeting for preparation of the smallholder agricultural competitiveness project’s (SACP) background papers on 09 November, 2016, Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka, Bangladesh.
13. Training on Biosafety and Biosecurity organized by Bangladesh Biosafety and Biosecurity Association (BBBA) from 6-7 January, 2017 at Director General of Health Services (DGHS), Mohakhali. Dhaka, Bangladesh.
14. Participated in a 5 (five) day long training on Application of R software in agricultural statistic in BIRRI, 11-16 February, 2017.
15. Participated in 1st National workshop of GNOBB on CRISPR-Cas9 genome editing technology on 28th March. 2017 at CARS, Dhaka University, Bangladesh.
16. Participated in a three-day long Stewardship and regulatory training program on GM crops by Arcadia Biosciences, USA at Biotechnology Division, BIRRI from 2-4 April, 2017.

17. Participated in 1st National Conference on Neuroscience Research in Bangladesh on 15th April, 2017 at Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka.
18. Participated in a workshop on Networking and Communication to establish a National Network on Agriculture for Nutrition (Nag4N) on 5th May, 2017 at Shere Bangla Agriculture University (SAU), Dhaka, and the workshop was jointly organized by UODA and YPARD Bangladesh.
19. Participated in workshop in a Workshop entitled on Food Systems for Healthier Diets in Bangladesh on 5th July, 2017 at Gulshan 2, Dhaka, Bangladesh and the workshop was jointly organized by IFPRI, CGIAR and Wageningen University, The Netherlands.
20. Participated in a six-day long training on Rice physiological development through trait discovery in BRRI, 11-16 August, 2018.
21. Participated in International Rice Congress 2018, Singapore on 16th October, 2018 and presented research article on Mitigation of Malnutrition with rice-based products in Bangladesh.
22. Participated in Training of Trainers (ToT) on iBAS++ budget execution which was held on 23.11.2020 at IPF, Shegunbagicha, Dhaka.
23. Participated in five days long 27th Assessor Training Course on ISO/IEC 17025:2017. March 7 to 11th March, 2021. Organized by Bangladesh Accreditation Board (BAB), Dhaka.
24. Online workshop on Biosafety and biosecurity in biomedical research and diagnosis. 14th March, 2021, Organized by Bangladesh Biosafety and Biosecurity Society (BBBS), at BBBS: Conference 2021.
25. Online workshop on BSC Selection, Installation, Validation, Calibration and Certification. 15th March, 2021, Organized by Bangladesh Biosafety and Biosecurity Society (BBBS), at BBBS: Conference 2021.
26. Online workshop on Writing SOPs from scratches. 16th March, 2021, organized by BBBS. Bangladesh Biosafety and Biosecurity Society (BBBS), at BBBS: Conference 2021.
27. Hands on training for using high throughput phenotypic system for C₄ rice research which was held on 20th to 21st April, 2021 at training division of BRRI, Gazipur.
28. Day long online Awareness Training on Nutrition and Food Safety on 28th April, 2021, BARC, Dhaka.
29. OMICSLOGIC bioinformatics online training on Genomics for Biomedical and Drug discovery, 26th April to 18th May, 2021. Federation of Asian Biotech Associations (FABA), Academy.
30. 21st IUFOST World Congress of Food Science & Technology and Shimadzu 3rd Global Food Summit 2022 in Singapore, 1-2 November, 2022.
31. IRC2023 International Rice Congress at Philippines, 16-19th October, 2023.
32. AFACI AFCD workshop 2024, Bangkok, Thailand 27-31 May, 2024.

Supervision of MS students for their research (MS students no, 16)

1. Dietary administration of rice in improving the antioxidant status in Long-Evans Rat. MS. Thesis of Farzana Hoque (Examination Registration No: 11329089126 Session: 2011-12, Submitted February 2016) for the fulfillment of MS in Biochemistry and Molecular Biology, Tejgoan College, National University.
2. Screening of lead uptake in Bangladesh rice varieties for Aman season. MS. Thesis of Md. Shahin Alam (Examination Registration No: 11329089105 Session: 2011-12, Submitted February 2016) for the fulfillment of MS in Biochemistry and Molecular Biology, Tejgoan College, National University.

3. In vivo screening for low glycemic index (GI) rice varieties in Bangladesh and evaluate the effect of differently processed rice and rice products on GI. MS. Thesis of Shourab Bhoumik (Examination Registration No: 12329114742 Session: 2012-13, Submitted October 2016) for the fulfillment of MS, 2016 in Biochemistry and Molecular Biology, Tejgoan College, National University.
4. Investigation of physicochemical properties of rice germplasm. MS. Thesis of Md. Faisal Noor (Examination Registration No: 12329114735 Session: 2012-13, Submitted October 2016) for the fulfillment of MS, 2016 in Biochemistry and Molecular Biology, Tejgoan College, National University.
5. Physicochemical and functional characterization of selected HYV BRRI rice varieties. MS. Thesis of Md. Mobarok Hossain (Exam Roll: 1512, Registration No: 2010-412-938 Session: 2014-15) for the fulfillment of MS, 2016 in Biochemistry and Molecular Biology, Dhaka University.
6. Screening of cadmium uptake in Bangladesh rice varieties for Aman season at seedling stage. MS Thesis of Rifat Bin Amin (Examination Registration No: 133299101576 Session: 2013-14 Submitted September 2017) for the fulfillment of MS, 2017 in Biochemistry and Molecular Biology, Tejgoan College, National University.
7. Beneficial role of rice bran oil in comparison of other edible oils in Bangladesh. BSc (honors) course paper of Ms Anika Rahman (Examination Registration No: 36426 Session: 2012-13, Submitted September 2017 for the fulfillment of BSc, 2017 in Public health and informatics, Jahangirnagar University, Savar, Dhaka.
8. Mineral profiling of HYV rice in Bangladesh. MS. Thesis of Suman Chandra Das (Examination Registration No: 5155542 Session: 2014-2015 , Submitted September 2018) for the fulfillment of MS, 2018 in Biochemistry and Molecular Biology, Tejgoan College, National University, Bangladesh.
9. Physicochemical properties of small grain aromatic Kalijira rice varieties in Bangladesh. MS. Thesis of Mahedi Hasan (Examination Registration No: 5155530 Session: 2014-2015, Submitted September 2018) for the fulfillment of MS, 2018 in Biochemistry and Molecular Biology, Tejgoan College, National University, Bangladesh.
10. Nutritional Properties of Some BRRI HYV Rice in Bangladesh. MS. Thesis of Samsul Alam (Examination Registration No: 5155540 Session: 2014-2015, Submitted September 2018) for the fulfillment of MS, 2018 in Biochemistry and Molecular Biology, Tejgoan College, National University, Bangladesh.
11. Post harvest loss minimization of rice bran to attain good quality rice bran oil in Bangladesh. MS thesis of Md. Abu Sayed (Examination Registration No: 2015423008 Session: 2015-2016, Submitted September 2018) for the fulfillment of MS, 2018 in Biochemistry and Molecular Biology, Shahjalal University of Science and Technology, Shylet, Bangladesh.
12. Study of glycemic index (GI) and non esterified fatty acid (NEFA) status of energy dense rice biscuits (EDRB). MS thesis of Sultan Abu Saleh Mahmud (Examination ID No: 01201152005 Session: Fall 2015, Submitted Fall 2018) for the fulfillment of two years long MS, 2018 in Biochemistry and Cell Biology, Bangladesh University of Health Sciences (BUHS), Mirpur 1, Dhaka. Bangladesh.
13. Estimation of antioxidant contents of 20 different pigmented rice ethanolic extracts through the spectrophotometric assay anatomization. MS thesis of Tasmiah Binte Sayeed ID: 1915464670 Fall 2020 for the fulfillment Masters of Science in Biotechnology in North South University, Dhaka.

14. In vivo screening of glycemic index analysis of local cultivars of different rice species in Bangladesh. MS thesis of Md. Rafiul Islam Sarker ID: 1815540670 Fall 2020 for the fulfillment Masters of Science in Biotechnology in North South University, Dhaka.

15. Shifullah Mahmud Registration no. : 12-04765 fulfillment of the requirements MS degree in Institute of seed technology Semester: January-June, 2020

16. A total of 24 BSc students of Biochemistry, Primeasia University, Dhaka took training program at GQN Division under my supervision for 15 days.

Co-Supervisorship of Post Graduate Student (2018-till today).

1. Shakir Hosen, PhD student of Biochemistry and Molecular Biology department of Dhaka University. Title: Anti-carcinogenic, anti-diabetic and anti-inflammatory roles of anthocyanin extracted from wild type Bangladeshi rice varieties (Funding Source: National Agriculture Technical Project NATP Phase II, Bangladesh, PhD fellowship, Duration: 2017-2021).
2. Shah Ashadul Islam, PhD student of Biotechnology, Bangladesh Agriculture University, Session 2022-2025. Fellowship OFANS-KGF-GQN, Nutriomics study on anthocyanin enriched rice and use of fermented rice bran in the formulation of rice-based bakery product in Bangladesh.
3. Shorov Bhoumik, MPhil student of Biochemistry and Molecular Biology department of Dhaka University. Production of abiotic stress tolerant high yielding Kalijira rice by down regulation of Drought and Salinity Tolerant (DST) transcription factor

Popular articles in BRRRI newsletter and national newspaper:

1. **Habibul Bari Shozib** and Muhammad Ali Siddiquee, Black rice research initiatives in BRRRI, BRRRI Newsletter, December Edition, 2016.
2. **Habibul Bari Shozib** and Muhammad Ali Siddiquee. Disease resistant compound in BRRRI HYV rice. BRRRI Newsletter, April – June Edition, 2015.
3. **Habibul Bari Shozib** and Muhammad Ali Siddiquee. Antioxidant properties of rice. BRRRI Newsletter, 2015.
4. Md. Anowarul Haque, Nilufa Ferdous and **Habibul Bari Shozib**, Safe Food digest 1(1) 1st October 2020.
5. Md. Anowarul Haque, Nilufa Ferdous and **Habibul Bari Shozib**, Prospect of rice bran oil, The Daily Nayadigonto. 19th September 2020.

Involvement in projects as Co-PI/Co-Investigator (CoI)/Program Director (PD):

1. An industrial pilot study of zinc fortification of whole rice through parboiling process in an Engleberg mill. (Funding Source: Global Alliance for Improved Nutrition (GAIN) Bangladesh. Project Number: 40BD02-PD, 2015, BRRRI component). Nutritious Rice Value Chain (NRVC) Innovation in Bangladesh (Phase-II). (**Status: Executed**) (**Co-Principal Investigator**)
2. Post harvest loss minimization of rice bran to attain good quality rice bran oil in Bangladesh (Funding Source: Ministry of Agriculture, Bangladesh, Duration: 2017-2018). (**Status: Executed**) (**Co-Principal Investigator**)
3. Value addition and standardization of nutritional level in selected food items to mitigate malnutrition (Funding Source: National Agriculture Technical Project NATP Phase II, Bangladesh, Duration: 2018-2021, Project ID-099 under PBRG.) (**Status: Executed**). (**Co-Principal Investigator**)
4. Detection and quantification of heavy metals and toxins in rice bran, bran oil and de-oiled rice bran (Funding Source: Ministry of Agriculture, Bangladesh, Duration: 2018-2019). (**Status: Executed**) (**Co-Principal Investigator**)

5. Accreditation of BRRRI central Laboratory (**Executed**). Special Program was funded by MoA. (**Program Director**)
6. Formulation of rice-based foods supplemented with anthocyanin-enriched fermented rice bran. Funded by KGF funded Project (**On going**) (**Principal Investigator**)
7. Establishment of BPATC center at BRRRI (**On Going**) (**DPD, BRRRI**)
8. **PARTNER project activities** of DLI 6.1 & 6.2 (Co-Investigator, RAL, BRRRI)

Award and fellowship:

1. GCP (Generation Challenge Program) Fellowship 2007.
2. Obtained third position for Poster presentation in Bangladesh Plant Tissue Culture and Biotechnology, conference 2008 which was held on April 11-13, 2008 at Dhaka University, Dhaka, Bangladesh. <http://www.gnobb.org/Poster-Prize.pdf>.
3. Awarded Japanese Government Scholarship (Monbukagakusho) in 2009 (duration: October 2009 to September 2013)
4. Champion award for best oral presentation in 3rd International Conference on Biotechnology in Health and Agriculture which was held on 29-30th December, 2017 at Dhaka University, Dhaka, Bangladesh.
5. National Integrity Award (Shodrachar Poruschar) 2019-20, BRRRI for best Scientific officer as an employee.
6. National Integrity Award (Shodrachar Poruschar) 2021-22, BRRRI for Scientific officer as an employee.

Affiliation in professional organization:

1. Associate Member, Bangladesh Botanical Society (BBS).
2. Life Member, Bangladesh Association of Plant Tissue Culture and Biotechnology (BAPTC&B).
3. Life Member, GNOBB (Global Network of Bangladeshi Biotechnologists), EC member for 2016-2018.
4. Life Member, Bangladesh Biosafety and Biosecurity Association (BBBA).

Achievements: As a senior scientist of Grain Quality and Nutrition (GQN) Division, BRRRI, I am actively involved in modern HYV rice breeding varietal program from 23rd September, 2014 to till today. During these period BRRRI has released a total of 35 BRRRI HYVs including 38 inbred such as BRRRI dhan70, BRRRI dhan71, BRRRI dhan72, BRRRI dhan73, BRRRI dhan74, BRRRI dhan75, BRRRI dhan76, BRRRI dhan77, BRRRI dhan78, BRRRI dhan79, BRRRI dhan80, BRRRI dhan81, BRRRI dhan82, BRRRI dhan82, BRRRI dhan83, BRRRI dhan84, BRRRI dhan85, BRRRI dhan86, BRRRI dhan87, BRRRI dhan88, BRRRI dhan89, BRRRI dhan90, BRRRI dhan91, BRRRI dhan92, BRRRI dhan93, BRRRI dhan94, BRRRI dhan95, BRRRI dhan96, BRRRI dhan97, BRRRI dhan98, BRRRI dhan99, BRRRI dhan100 , BRRRI dhan101, BRRRI dhan102, BRRRI dhan103, BRRRI dhan104, BRRRI dhan105, BRRRI dhan106 and 4 Hybrids such as BRRRI Hybrid dhan5, BRRRI Hybrid dhan6, BRRRI Hybrid dhan7 and BRRRI dhan8. GQN Division of BRRRI had the mandate and responsibilities to analyze physicochemical and cooking properties of all of the above released BRRRI HYVs during this period.

Referees:

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