



Associate professor (Agriculture)

School of Agriculture and Rural Development (SARD)
Bangladesh Open University (BOU), Gazipur-1705, Bangladesh
PABX: +88-02 09666-730730 Ex. 682 (Personal)
Phone: +88-02-9291110 (Dean Office)
Cell: +88 01777514291
Fax +88-02-9291110 (Dean Office)
e-mail: sobahan_74@yahoo.com

Area of Specialization and Research Interest

- Bioscience, Salt tolerance mechanism, Environmental stress tolerance, Crop diversification and production, Plant physiology and adaptation.

Educational Qualification

- Doctor of Philosophy in Bioscience (3 years), Graduate School of Environmental and Life Science, Okayama University, Okayama, Japan under JASSO Honors Scholarship and Rotary Yoneyama Memorial Foundation Scholarship (2006- 2009), 2009. Grade A.
- Master of Science in Agronomy. Bangladesh Agricultural University (BAU), Mymensingh. (2000-2001). 2001. First class.
- Bachelor of Science in Agriculture, Major- Agriculture. BAU, Mymensingh. (1991-1995), 1999. First Class.
- Higher Secondary School Certificate, Science, Tejgaon College, Dhaka. 1991. Second Division.
- Secondary School Certificate, Science, Dhaka Board, 1989. First Division.

Professional Experiences

- March 2021 ~ to date: **Associate Professor** (Agriculture), SARD, BOU, Gazipur.
- May 2013 ~ Feb. 2021: **Assistant Professor** (Agriculture), SARD, BOU, Gazipur
- 2002 ~ 2006: **Research Officer**, North West Crop Diversification Project (NCDP), Department of Agricultural Extension, Government of Bangladesh and Asian Development Bank.

List of Publications

1. **Sobahan, MA.**, Akter, N., and Rana, MM. (2022). Polyethylene glycol mediated drought stress impacts on germination, growth and accumulation of proline in rice (*Oryza sativa* L.), *SAARC Journal of Agriculture*, 20(1): 107-119. Bangladesh.
2. Akter, N., **Sobahan, MA.**, Islam, MS., and Parveen, S. (2021). Effect of Water Stress and Potassium Fertilizer on Growth and Yield of Transplanted Aman Rice, *South Asian Journal of Agriculture*, 8 (1 & 2): 36-44. Bangladesh.
3. Mori, IC., Arias-Barreiro, CR., Ooi, L., Lee, N_H., **Sobahan, MA.**, Nakamura, Y., Hirai, Y., and Murata, Y. (2021) Cadmium uptake via apoplastic bypass flow in *Oryza sativa*, *Journal of Plant Research*, 134(5):1139-1148. Japan.
4. **Sobahan, MA.** (2018). Effect of seed priming with proline on germination and seedling growth of mungbean under salt stress condition, *South Asian Journal of Agriculture*, 7(1&2): 15-18, Bangladesh.
5. **Sobahan, MA.** (2018). Effect of exogenous proline and glycinebetaine on antioxidant enzymes activity in rice seedlings under salt stress, *Albanian Journal Agricultural Science*, 17 (4): 1-5, Albania.
6. **Sobahan, MA.**, Akter, N., Murata, Y., and Munemasa, S. (2016). Exogenous proline and glycinebetaine mitigate the detrimental effect of salt stress on rice plants, *Silpakorn University Science and Technology Journal*, 10(3): 38-43, Thailand.
7. Alam, MM., **Sobahan, MA.**, Akter, N., and Hossain, I. (2016). An investigation on disease incidence, grain yield and quality of BRRI Dhan29 in Bangladesh, *International Journal of Applied Sciences and Biotechnology*, 4: 311-317, Nepal.
8. **Sobahan, MA.**, Akter, N., Okuma, E., Uraji, M., Ye, W., Mori, IC., Nakamura, Y., and Murata Y. (2015).

Allyl isothiocyanate induces stomatal closure in *Vicia faba*, *Bioscience, Biotechnology and Biochemistry*, 79: 1737- 1742, Japan.

9. Shamim, AHM., **Sobahan, MA.**, Saha, B., Sarkar, BK., and Tabrig, MSU. (2015). Deterioration of soil and water quality by practicing shrimp culture in sathkira, Bangladesh, *Journal of Soil and Nature*, 8: 7-13, Bangladesh.
10. Chowdhury, SZ., **Sobahan, MA.**, Shamim, AHM., Akter N., and Hossain, MM. (2015). Interaction effect of phosphorus and boron on yield and quality of lettuce, *Azarian Journal of Agriculture*, 2: 147-154, Iran.
11. Akter, N., Okuma, E., **Sobahan, MA.**, Uraji, M., Munemasa, S., Nakamura, Y., Mori, IC., and Murata, Y. (2013). Negative regulation of methyl jasmonate-induced stomatal closure by glutathione in *Arabidopsis*, *Journal of Plant Growth Regulation*, 32, 208-215, USA.
12. **Sobahan, MA.**, Akter, N., Ohno M., Okuma, E., Hirai, Y., Mori, IC., Nakamura, Y., and Murata Y. (2012). Effects of exogenous proline and glycinebetaine on the salt tolerance of rice cultivars, *Bioscience, Biotechnology and Biochemistry*, 76: 1568-1570, Japan.
13. Akter, N., **Sobahan, MA.**, Uraji, M., Ye, W., Hossain, MA., Mori, IC., Nakamura, Y., and Murata, Y. (2012). Effects of depletion of glutathione on abscisic Acid- and methyl jasmonate-induced stomatal closure in *Arabidopsis thaliana*, *Bioscience, Biotechnology and Biochemistry*, 76: 2032-2037, Japan.
14. Akter, N., **Sobahan, MA.**, Hossain, MA., Uraji, M., Nakamura, Y., Mori, IC., and Murata, Y. (2010). The involvement of intracellular glutathione in methyl jasmonate signaling in *Arabidopsis* guard cells, *Bioscience, Biotechnology and Biochemistry*, 74: 2504-2506, Japan.
15. **Sobahan, MA.**, Arias, CR., Okuma, E., Shimoishi, Y., Nakamura, Y., Hirai, Y., Mori, IC., and Murata, Y. (2009). Exogenous proline and glycinebetaine suppress apoplastic flow to reduce Na⁺ uptake in rice seedlings, *Bioscience, Biotechnology and Biochemistry*, 73: 2037-2042, Japan.
16. Wadud, A., Kabir, M. S., Akter, N., **Sobahan, M. A.**, and Ali, M. A., Vector transmission of leaf curl virus in chilli. *Bangladesh Journal of Environmental Science*, 16, 143-146 (2009). Bangladesh.
17. Al-Mamun, MA., Akter, N., Kabir, MS., Kamal, AMA., and **Sobahan, MA.** (2008). Effect of variety and nitrogen fertilization on the growth and yield of wheat, *Bangladesh Journal of Environmental Science*, 15: 203-207, Bangladesh.
18. Kabir, MS., Ali, MA., Akter, N., **Sobahan, MA.**, and Anwer, MT. (2008). Impact of time of infection of mungbean yellow mosaic disease on performances of winter mungbean, *Bangladesh Journal of Environmental Science*, 15: 131-134, Bangladesh.
19. Hossain, MS., **Sobahan, MA.**, Alam, MA., Ali, MS., and Bhuiyan, MSH. (2007). Effects of organic manures and nitrogen levels on plant height and number of tillers per hills of T. Amon rice, *Journal Subtropical Agricultural Research Development*, 5: 291-296, Bangladesh.
20. Akter, N., Ahmad, MU., and **Sobahan, MA.** (2007). Bio-control of root knot (*Meloidogyne incognita*) of okra, *Bangladesh Journal of Environmental Science*, 13: 50-52, Bangladesh.
21. **Sobahan, MA.**, Anwer, MP., Islam, MM., and Islam, MA. (2003). Effect of number of seedlings and spacing on the yield of hybrid rice variety Sonar Bangla-1, *Bangladesh Journal of Environmental Science*, 9: 132-137, Bangladesh.

Postgraduate Student Supervisor

- No of MS student: 05

Research Project

- Dr. Muhammad Abdus Sobahan. 2017-2018. Effect of Polyethylene Glycol Induced Drought Stress on Germination, Seedling Growth and Proline Content in Rice Varieties, Bangladesh Open University, Accepted.

List of Study Material Developed

- Author, 2020. Integrated Agriculture Farming, Fist Paper, H.S.C, Open School, BOU

Video and Audio Programs

- No of video program recorded: 13
- No of audio program recorded: 10

Academic and/or Administrative Responsibilities/Duties

-
- **Coordinator of Publishing, Printing & Distribution**, SARD, BOU, from 26/08/2015 to 15/11/2017
 - **Member of School Committee**, SARD, BOU, from 26/05/2015 to 29/01/2018
 - **Coordinator of Syllabus and Course Curriculum Preparation Committee for Master in Sustainable Agriculture and Rural Livelihood program**, SARD, BOU
 - **Member of Laboratory Establishment and Management Committee**, SARD, BOU
 - **Laboratory Coordinator**, SARD, BOU, from 01/03/2017 to 12/01/2019
 - **Coordinator of BAged Programe**, SARD, BOU, 23/04/2017 to 30/06/2019
 - **Laboratory Associate Coordinator**, SARD, BOU, from 13/01/2019 to 25/06/2019
 - **Laboratory Coordinator**, SARD, BOU, from 26/06/2019 to date

Certificate Awarded for Training/Short Course/Workshop

- Common wealth Higher Education Consortium for Youth Work (CHEC4YW) Training Workshop under the partnership between the Commonwealth Secretariat, the University of the West Indies (UMI), the Commonwealth of Learning (COL) and Bangladesh Open University from 20-22 November, 2019.
- 13th International Knowledge Globalization Conference, Workshop on E-Learning-Use of Moodle : Level-1 organized by International University of Business Agriculture and Technology (IUBAT), Dhaka and Knowledge Globalization Institute, Boston, USA on 25 February, 2018.
- Capacity Enhancement Programme on Open Educational Resources for BOU Academics (Master Trainers) organised by Bangladesh Open University and Commonwealth Educational Media Center for Asia (CEMCA), India from 03-05 November, 2016.
- Interactive script Writing and Presentation Technique organized by Media Center, Bangladesh Open University, Gazipur from 16-19 September, 2013.

Recognition and Merit Awards

- Japan Student Service Organization (JASSO) Scholarship (2007 to 2008) for International Student from the Okayama University, Okayama, Japan.
- Rotary Yoneyama Memorial Foundation Scholarship (2008 to 2009) for International Student from Japan.