

# Curriculum Vitae

## Personal Details

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1. **Name** - Dr. Nasima Akter
2. **Husband's Name** - Dr. Muhammad Abdus Sobahan
3. **Father's Name** - Nur Mohammad
4. **Mother's Name** - Kamrun Nahar
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10. **Marital Status** - Married
11. **Sex** - Female
12. **Religion**- Islam

## 13. Academic Qualification

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(Year)	(Degree), (Major), (Institution), (Grade/Class/Div.)
2009-2012	Doctor of Philosophy, Bioscience, Natural Science and Technology, Okayama University, Japan. Grade A.
2005-2006	Master of Science in Plant pathology, Bangladesh Agricultural University, Mymensingh. Grade A.
2000-2003	Bachelor of Science in Agriculture, Major - Agriculture. First Class (43th).
1999	Higher Secondary School Certificate, Science, Sarishabari Mahmuda Salam Mohilla College, Dhaka, First Division (*).
1997	Secondary School Certificate, Science, Sarishabari Pilot Girl's High School, Dhaka, First Division.

## 14. Thesis

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- Masters – Bio-control of Root Knot (*Meloidogyne incognita*) of Okra.
- PhD – Roles of Glutathione in Abscisic Acid- and Methyl Jasmonate-Induced Stomatal Closure in Arabidopsis.

## 15. Work Experience

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Position	Duration		Institution
	From	To	
Plant Pathologist	03-02-2013	23-7-2015	MNT Seed Testing Lab, Lal Teer Seed Limited,
Senior Scientific Officer	26-7-2015	17-11-2016	BRRI, R/S Sonagazi, Feni
Senior Scientific Officer	18-11-2016	To date	Agronomy Division, BRRI, Gazipur

## 16. Specializations

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Agricultural Science: Bioscience, Environmental stress physiology in higher plants, Stress physiology-salinity and drought tolerance, Agronomical management in Rice.

## 17. Professional training

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### (a) In Country:

Organization	Year	Duration		Training on
		Months	Days	
Seed Pathology Centre, Bangladesh Agricultural University, Mymensingh (Organized by BADC)	2014	26-28 October	3	Seed health testing
Bangladesh Rice Research Institute, Gazipur	2015	1 August-30 September	-	Rice production
National Agricultural Training Academy, Gazipur	2016	-	3	Disaster management
National Agricultural Training Academy, Gazipur	2017	-	4	Seed technology
National Agricultural	2017	-	5	Food security

Training Academy, Gazipur				
Bangladesh Rice Research Institute, Gazipur	2017		3	Data analysis on star software
Bangladesh Agricultural Research Council, Farmgate, Dhaka	2018		5	Project development and management
Bangladesh Rice Research Institute, Gazipur	2018		5	Hybrid rice
Bangladesh Rice Research Institute, Gazipur	2018	-	5	Physiological development through trait discovery for boosting rice yield in changing climatic conditions
Bangladesh Rice Research Institute, Gazipur	2018	-	2	Procedure of soil and plant analysis
Bangladesh Rice Research Institute, Gazipur	2019	-	5	Basic molecular biology and disease resistance
Bangladesh Agricultural Research Council, Dhaka	2019	7-12 December	6	Financial and procurement management
Bangladesh Rice Research Institute, Gazipur	2019	17-19 December	3	Hands on training on HPLC method development
Bangladesh Rice Research Institute, Gazipur	2019	22-26 December	5	Agricultural research methodology
Bangladesh Rice Research Institute, Gazipur	2020	13-17 September	5	Introduction to ISO17025: 2017 standards for laboratory accreditation
Bangladesh Rice Research Institute, Gazipur	2020	8-12 November	5	Hands on training in PCR, Real time PCR and LCMS course
National Agricultural Training Academy, Gazipur	2020 and 2021	23 Feb. to 23 March, 2020 & 19 Dec., 2020 to 18 March, 2021	-	Foundation training course for NARS scientists
Bangladesh Wheat and Maize Research Institute, Nashipur, Dinajpur	2021	12-25 February		Breeding techniques & agronomic management of Wheat and maize
Bangladesh Rice Research Institute, Gazipur	2021	6-17 June	5	Hands on training in laboratory management course

**(b) Abroad:**

Organization	Year	Duration		Training on
		Months	Days	
Horticultural Research Institute, Depok, Bogor, Indonesia (Organized by ISTA)	2014	9-13 November	5	Seed health testing
IRRI Headquarters, Los Banos, Laguna, Philippines	2019	7-11 October		Basic experimental design and data analysis using STAR

## **18. Course**

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- Beginners I Japanese Language Course completion certificate, Japan.
- Interdisciplinary course, Okayama University, Japan.

## **19. Computer and data management skill**

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- General computing: Microsoft Office, Microsoft excel and PowerPoint
- Statistical computing: Crop Stat, R software, Star software
- Photosynthesis system in Rice: Li-Cor Photosynthesis system, Li-Cor Leaf area meter, Spad meter for chlorophyll measurement
- Analytical Capabilities: Nitrogen analyzer, Fluorescence microscope, spectrophotometer, Atomic absorption spectrophotometer, Flame photometer, HPLC, PCR, Electrophoresis, electron microscope.

## **20. Professional membership**

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- 2018-Life Member, Bangladesh Weed Science Society
- 2018: Member, Bangladesh Society of Agronomy
- 2015-present: Member of BRRRI Scientist's Association (BRRISA)

## **21. Grants and Awards**

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- National integrity award, 2020 for Best worker from Bangladesh Rice Research Institute, Gazipur.
- PhD – Honors scholarship (2009-2012) for international students, Japan Student Service organization (JASSO).

- Masters – National Science and Information & Communication Technology (NSICT) fellowship (2005-2006) from Bangladesh government.

## 22. Journal Publications

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- i) **N Akter**, Sobahan, MA, Uraji M, Ye W, Hossain MA, Nakamura Y, Mori IC, and Murata Y, Effects of Depletion of Glutathione on Abscisic Acid- and Methyl Jasmonate-induced Stomatal Closure in Arabidopsis. *Bioscience, Biotechnology and Biochemistry*, 76 (11), 2032-2037 (2012) (Japan).
- ii) **N Akter**, Okuma E, Sobahan MA, Uraji M, Shintaro M, Nakamura Y, Mori IC, and Murata Y, Negative Regulation of Methyl Jasmonate-Induced Stomata Closure by Glutathione in Arabidopsis. *Journal of Plant Growth Regulation*, 32 (1), 208-215 (2013) (Springer, USA).
- iii) **N Akter**, Sobahan MA, Hossain MA, Uraji M, Nakamura Y, Mori IC, and Murata Y, The Involvement of Intracellular Glutathione in Methyl Jasmonate Signaling in Arabidopsis Guard Cells. *Bioscience, Biotechnology and Biochemistry*, 74, 2504-2506 (2010) (Japan).
- iv) **N Akter**, Ahmad MU, and Sobahan MA, Bio-control of Root Knot (*Meloidogyne incognita*) of Okra. *Bangladesh Journal of Environmental Science*, 13, 50-52 (2007).
- v) Sobahan MA, **N Akter**, Okuma E, Uraji M, Mori IC, Nakamura Y, Murata Y, Exogenous Proline and Glycinebetaine Mitigate the Detrimental Effect of Salt Stress on Rice Seedlings, *Silpakorn University Science and Technology Journal*, Thailand.
- vi) Alam MM, Sobahan MA, **N Akter** and Hossain I, An Investigation on Disease incidence, grain yield and quality of BRRI dhan29 in Bangladesh. *International Journal Applied Sciences and Biotechnology*, 2016 79 (10):1737-42. Doi: 10.3126/ijasbt.v4i3.
- vii) Chowdhury SZ, Sobahan MA, Shamim MAH, **N Akter**, Hossain MM, Interaction effect of phosphorus and boron on yield and quality of lettuce. *Azarian Journal of Agriculture*, 2 (6): 147-154 (2015).
- viii) Sobahan MA, **N Akter**, Okuma E, Uraji M, Mori IC, Nakamura Y, Murata Y, Allyl Isothiocyanate (AITC) Induces Stomatal Closure in *Vicia faba*. *Bioscience, Biotechnology and Biochemistry*, 2015 Oct; 79(10):1737-42. Doi: 10.1080/09168451.2015.1045827.
- ix) **N Akter**, M A Sobahan, MSh Islam and S Parveen, Effect of water stress and potassium fertilizer on growth and yield of transplanted aman rice. *South Asian Journal of Agriculture*, 2021 July (Accepted).
- x) A Sultana, MS Zahan, SA Islam, **N Akter**, MM Mahbub, M Issak, Response of transplanting date on growth and yield components of selected advanced genotypes of short duration T. Aman rice. *Eco-friendly Agril. J.* 13(03):23-29, 2020 (March).
- xi) Sobahan MA, **N Akter**, Ohno M, Okuma E, Hirai Y, Mori IC, Nakamura Y, Murata Y, Effects of Exogenous Proline and Glycinebetaine on Salt Tolerance of Rice Cultivars. *Bioscience, Biotechnology and Biochemistry*, 76, 120233-1-3, (2012).

- xii) Wadud MA, Kabir MS, **N Akter**, Sobahan MA, and Ali MA, Vector Transmission of Leaf Curl Virus in Chilli. *Bangladesh Journal Environmental Science*, 16, 143-146 (2009).
- xiii) Wadud MA, **N Akter**, Kabir MS, Ali MA, and Islam MS, Protection Techniques of Leaf Curl Infection in Chilli. *Bangladesh Journal Environmental Science*, 16, 127-130 (2009).
- xiv) Al-Mamun MA, **N Akter**, Kabir MS, Kamal AMA, and Sobahan MA, Effect of Variety and Nitrogen Fertilization on the Growth and Yield of Wheat. *Bangladesh Journal Environmental Science*, 15, 203-210 (2008).
- xv) Kabir MS, Ali MA, **N Akter**, Sobahan MA, and Anwer MT, Impact of Time of Infection of Mungbean Yellow Mosaic Disease on Performances of Winter Mungbean. *Bangladesh Journal Environmental Science*, 15, 131-134 (2008).
- xvi) Anwer MT, Ahmad MU, Hossain I, and **N Akter**, Management of Root-Knot (*Meloidogyne javanica*) of Grasspea by BAU-Biofungicide and Soil Organic Amendment. *Bangladesh Journal Seed Science and Technology*, 10, 1-5 (2006).

### 23. Conference Proceedings

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- i) **Nasima Akter**, Muhammad Abdus Sobahan, Mohammad Anowar Hossain, Misugi Uraji, Yoshimasa Nakamura, Izumi C. Mori, and Yoshiyuki Murata (2010). Glutathione Functions in Methyl Jasmonate Signaling in Arabidopsis Guard Cells. Graduate School of Natural Science and Technology, Okayama University, P- 22.
- ii) **Nasima Akter**, Muhammad Abdus Sobahan, Mohammad Anowar Hossain, Misugi Uraji, Yoshimasa Nakamura, Izumi C. Mori, and Yoshiyuki Murata (2010). Involvement of Intracellular Glutathione in Methyl Jasmonate Signaling in Arabidopsis Guard Cells. *Japanese Society for Bioscience Biotechnology and Agrichemistry*, 28<sup>th</sup>, B-03.
- iii) **Nasima Akter**, Muhammad Abdus Sobahan, Mohammad Anowar Hossain, Misugi Uraji, Yoshimasa Nakamura, Izumi C. Mori, and Yoshiyuki Murata (2010). Glutathione Involves in Methyl Jasmonate Signaling in Arabidopsis Guard Cells. *Bioactive Okayama. International Conference on Biologically Active Substances. Okayama Prefectural University*, 6<sup>th</sup>, P-16.
- iv) **Nasima Akter**, Muhammad Abdus Sobahan, Misugi Uraji, Yoshimasa Nakamura, Izumi C. Mori, and Yoshiyuki Murata (2011). Methyl Jasmonate-Induced Stomatal Closure along with Intracellular Glutathione in Arabidopsis. *Japanese Society for Bioscience Biotechnology and Agrichemistry*, 30<sup>th</sup>, A-07.
- v) **Nasima Akter**, Muhammad Abdus Sobahan, Misugi Uraji, Wenxiu Ye, Mohammad Anowar Hossain, Izumi C. Mori, Yoshimasa Nakamura, and Yoshiyuki Murata (2012). Effects of Depletion of Glutathione on Abscisic Acid- and Methyl Jasmonate-Induced Stomatal Closure in Arabidopsis. *Japanese Society for Bioscience Biotechnology and Agrichemistry*, 33<sup>th</sup>, C-06.
- vi) **Nasima Akter**, Muhammad Abdus Sobahan, Eiji Okuma, Misugi Uraji, Shintaro Munemasa, Yoshimasa Nakamura, Izumi C. Mori, and Yoshiyuki Murata. Negative Regulation of Methyl

Jasmonate-Induced Stomatal Closure by Glutathione in Arabidopsis. Bioactive Okayama 2012 **International Conference** on Biologically Active Substances (Food and Health). Okayama University, P-48, 14.09.2012 (Japan).

#### **24. Collaborators & Other Affiliations**

- 1) Yoshiyuki Murata, PhD, Professor, Department of Bioscience, Faculty of Agriculture, Graduate school of Natural Science and Technology, Okayama University, Japan.
- 2) Dr. Md. Moin Uddin Ahmed, Professor and Ex Head (Department of Plant Pathology) and Dean (Faculty of Agriculture) Bangladesh Agricultural University, Mymensingh, Bangladesh.

#### **Referees:**

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