

CURRICULUM VITAE

Personal profile:

Name : **NILUFAR YASMIN SHAIKH**
Father's name : Dr. Md. Anwarul Quader Shaikh
Mother's name : Mrs. Zahida Banoo Shaikh
Address : House no. 52, Kallayanpur main road, East Kallyanpur,
(*Permanent & present*) Uttar City Corporation, Post Office: Mohammadpur,
Dhaka-1207, Mobile- 01715-792838; Email: biithiii@gmail.com
Date of birth : November 19, 1971
Nationality : Bangladeshi
National ID number : 1003304167
Language : Bangla (mother tongue), English

Education:

PhD in Agriculture (Plant Breeding & Biotechnology) from Osaka Prefecture University, Japan, completed in 2004

MSc in Agriculture (Plant Breeding & Biotechnology) from Miyazaki University, Japan, Passed in 1999 and obtained **First Class (Grade A)**

BSc (Hons. in Botany) from University of Dhaka, Bangladesh, passed in 1994 and obtained **First Class and stood Third position**

Employment Experiences:

Duration: May 2009 to Date Employer: Bangladesh Rice Research Institute, Gazipur Position: Senior Scientific Officer, Biotechnology Division
Duration: November 2007 to May 2009 Employer: Bangladesh Agriculture Research Institute, Gazipur Position: Senior Scientific Officer, Oilseed Research Center Project: Strengthening of Pulses and Oilseed Research Program in Bangladesh
Duration: July 2007 to November 2007 Employer: Bangladesh Agriculture Research Institute, Gazipur Position: Senior Scientific Officer, Tuber Crops Research Center Project: Strengthening of Tuber Crops Research Program in Bangladesh,
Duration: December 2005 to December 2006 Employer: UNMESH (Poor People Development Organization), Tamai, Sirajgonj Position: Agriculture Officer
Duration: April 2004 to September 2005 Employer: Center for Integrated Rural and Agricultural Development (CIRAD), Tangail Position: Program Director
Duration: April 1999 to March 2000 Employer: Faculty of Agriculture, Miyazaki University, Japan Position: Foreign Researcher

Professional Trainings:**A. Foreign training:**

Field of Training	Place and country	Duration		
		Starting time	Completion time	Length
Training on Biotechnology	Kasetsart University, Thailand	25.5.2010	08.07.2010	1 ½ month
Laboratory Induction Course As Research Student (Pre-requisite to enroll PhD Course.	Osaka Prefecture University, Japan	01.10.2000	31.03.2001	6 month

B. In-country Training:

Field of Training	Place	Year	Duration	
			Months	Days
Administrative and Financial Management	Bangladesh Academy of Rural Development (BARD), Cumilla	2019	-	11-24 Nov (14 days)
Financial and Procurement Management	BARC, Dhaka,	2019		21-26 Sep (6 days)
Basic Molecular Biology & Disease Resistance	Bangladesh Rice Research Institute (BRRI), Gazipur.	2019	-	16-21 March (6 days)
Project Development and Management	Bangladesh Institute of Management (BIM), Dhaka.	2018	-	14-18 Oct (5 days)
Rice Physiological Development through Trait Discovery	Bangladesh Rice Research Institute (BRRI), Gazipur	2018	-	11-16 Aug (6 days)
Experimental Design and Data Analysis Training Program	Bangladesh Rice Research Institute (BRRI), Gazipur	2017	-	8-10 April (3 days)
Stewardship & Regulatory Training Program	Bangladesh Rice Research Institute (BRRI), Gazipur	2017	-	2-4 April (3 days)
Genetic Data Analysis Software	Bangladesh Rice Research Institute (BRRI), Gazipur,	2013	-	23-28 June (6 days)
Research Proposal Preparation and Scientific Report Writing	BRAC-CDM, Rajendrapur,	2013	-	11-16 May (6 days)
Gene Cloning and Rice Transformation	Bangladesh Rice Research Institute (BRRI), Gazipur	2013	-	15-24 April (10 days)

Post Graduate Certificate Course on Seed Technology	Bangabandhu Sheikh Mujibur Rahman Agriculture University	2011	3 Months	04.12.2011-04.03.2012
Foundation Training Course of NARS scientists.	Bangladesh Academy of Rural Development (BARD), Cumilla.	2010	4 Months	19.09.2010-16.01.2011
Rice Production Training	Bangladesh Rice Research Institute (BRRI), Gazipur	2010	1 Month	21.03.2010-19.04.2010
Hands on Training on Application of Genetic Engineering in Crop Improvement	University of Dhaka	2009	-	19-28 July 2009 (10 days)
Hybrid rice development and seed production.	Bangladesh Rice Research Institute (BRRI), Gazipur	2009	-	02-04 Nov 2009 (3 days)
Tissue Culture Technique & Indexing of Virus Diseases Through ELISA method	Tuber Crop Research Center (TCRC), Bangladesh Agriculture Research Institute (BARI)	2007	-	16-20 Sep 2007 (5 days)

Other Experiences:

A) Participation in Technology Development and Transfer Activities

Sl. no.	Name of Technology Developed	Present Status of Adoption	Remarks
1	BRRI dhan96	Area coverage increasing.	DAE has taken the responsibility to disseminate the technology
2	BRRI dhan92		
3	BRRI dhan89		
4	BRRI dhan87		
5	BRRI dhan86		

B) Research program developed, supervised and executed

Sl. No.	Research program	PI	CI	Remarks
1	Development of premium quality rice (Kalizira type) variety through anther culture	PI		Developed, supervised, executed
2	Development of salt tolerant rice variety through anther culture	PI		Developed, supervised, executed
3	Development of low glycemic index (GI) rice variety through anther culture		CI	Executed
4	Development of Aus rice variety through anther culture		CI	Executed
5	Development of BRRI dhan47 through somaclonal variation	PI		Developed, supervised, executed
6	Development of Aus variety through		CI	Executed

Sl. No.	Research program	PI	CI	Remarks
	somaclonal variation			
7	Development of rice variety through wide hybridization followed by embryo rescue	PI		Developed, supervised, executed
8	Identification of QTLs for taller seedling height	PI		Developed, supervised, executed
9	Study on tray-growing rice seedling for mechanical transplanting in the Boro season.	PI		Developed, supervised, executed
10	Progeny Selection	PI		Developed, supervised, executed
11	Observational Trials (PYT): Somaclone lines from BRRRI dhan47	PI		Developed, supervised, executed
12	Preliminary Yield Trials (SYT) Somaclone lines from BRRRI dhan47	PI		Developed, supervised, executed
13	Regional Yield Trials (RYT)		CI	Supervised, executed
14	Advance Line Adoptive Research Trial (ALART)		CI	Supervised, executed
15	Proposed Variety Trials (PVT)		CI	Supervised, executed
A total of research program		9	6	

PI= Principal Investigator, CI=Co-investigator

List of publications:

Published full paper as **Principal Author: (10)**

- i. **N. Y. Shaikh, Alam, M. A. and Islam, A. K. M. S. (2022).** Effect of seeding date on the tray raised seedling quality for rice transplanter in Boro season, *Journal of Science, Technology and Environment Informatics*, vol. 11, no. 2, Page no. 764-774. Cross ref: <https://doi.org/10.18801/jstei.110222.77>
- ii. **N. Y. Shaikh, M. A. Alam, M. Kamruzzaman, M. A. A. Mamun, A. K. M. Saiful Islam 2021.** Effect of Seeding Density on Mat-Type Seedling Quality for Mechanical Transplanting in Dry Season Rice, *Agricultural Sciences*, vol. 12, no. 11, November 2021.
- iii. **N. Y. Shaikh 2020.** Research, cultivation and biosafety issues of GM crops in Agricultural Development of Bangladesh, *Journal of Bangladesh Agriculture*, vol. 10, no. 1, page no. 23-34
- iv. **N. Y. Shaikh 2019.** জিনোম এডিটিং প্রযুক্তি ক্রিসপার-কাস (CRISPR-CAS): কৃষি উন্নয়নে নতুন সম্ভবনা (Genome Editing Technology: CRISPR-CAS), *Journal of Bangladesh Agriculture*, vol. 9, no. 1, page no. 23-27.

- v. **N. Y. Shaikh 2013.** Potential of Yield Enhancing Quantitative Trait Loci (QTLs) in Rice Improvement, *Journal of Bangladesh Agriculture*, vol. 5, no. 1, page no. 49-61.
- vi. **N. Y. Shaikh 2011.** Crop Biotechnology: An emerging science in Bangladesh, *Journal of Bangladesh Agriculture*, vol. 4, no. 1, page no. 32- 46.
- vii. **N. Y. Shaikh 2010.** “কৃষি উন্নয়নে বায়োটেকনোলজির ব্যবহার ও ঝুঁকি”, *Journal of Bangladesh Agriculture*, vol. 3, no. 1, page no. 61-70.
- viii. **N. Y. Shaikh, L. M. Guan and T. Adachi 2002.** Ultrastructural aspects on degeneration of embryo, endosperm and suspensor cells following interspecific crosses in the genus *Fagopyrum*, *Breeding Science*, vol. 52, page no. 171-176.
- ix. **N. Y. Shaikh, L.M. Guan and T. Adachi 2002.** Failure of fertilization associated with absence of zygote development in the interspecific cross of *Fagopyrum tataricum* x *F. esculentum*. *Breeding Science*, vol. 52, page no. 9-13.
- x. **N. Y. Shaikh, L.M. Guan and T. Adachi 2001.** Ultrastructural analysis on breeding barriers of interspecific hybridization in genus *Fagopyrum*. *Kinki Journal of Crop Science and Breeding*, vol. 46, page no. 37-45.

Published full paper as **Co-author: (6)**

- i. **A Sultana, N. Y. Shaikh, M S Zahan, M A Badshah, R Akter, and M Issak, 2020.** Effect of transplanting date on growth and yield of advanced lines of transplanted Aman rice. *Res. Agric. Livest. Fish.*, vol. 7, no. 1, page no. 1-7.
- ii. **A Sultana, M S Zahan, N. Y. Shaikh, R Akter, M Issak, 2019.** Agroclimatic Indices of Rice (*Oryza sativa* L.) Influenced by Different Planting Times. *Bangladesh Rice J.*, vol. 23, no. 2, page no. 87-94.
- iii. **B Karmakar, M A A Mamun, M S Rahman, M A Islam, M R Islam, M H R Mukul, Shamsunnaher, A Zahan, R Barua, M R Biswash, S Parveen, S Akter, N. Y. Shaikh and B Ahmed, 2019.** Adaptation of Promising Rice Genotypes for Broadcast Aus Season. *Bangladesh Rice J.*, vol 23, no. 2, page no. 35-48.
- iv. **Malakar, J. C., K.U. Ahammed, N. Y. Shaikh, S.K. Malakar and M.A. Siddiky. 2009.** Performance of broadcast aus rice + maize intercropping as affected by maize population and nitrogen level. *Int. J. Sustain. Crop Prod.* vol. 4, no. 1, page no. 19-22.
- v. **Malakar, J. C., K.U. Ahammed, N. Y. Shaikh, F. Pervin and M.A. Siddiky. 2009.** Rice- Maize intercropping as affected by nitrogen fertilization. *Eco-Friendly Agril. J.* vol. 2, no. 3, page no. 479-482.
- vi. **Siddiky, M. A., K.U. Ahammad, N. Y. Shaikh, J.A. Mahmud and J.C. Malakar.**

2009. Yield response of mustard, boro, T.aman rice to NPKS fertilizers in High Ganges River Floodplain Soil. *Int. J. Sustain. Crop Prod.* vol. 4, no. 1, page no. 49-54, <http://ggfjournals.com/assets/uploads/49-541.pdf>

Proceedings/seminar/workshop/abstract/article/report as **Principal author: (6)**

- i. **N. Y. Shaikh 2018.** Development of rice variety through wide hybridization followed by embryo rescue. Thursday Seminar presented on 17 May 2018 at BIRRI auditorium, Gazipur.
- ii. **N. Y. Shaikh 2009.** Overcoming breeding barrier in interspecific hybridization of Buckwheat. Thursday Seminar presented on 20 Aug 2009 at BIRRI auditorium, Gazipur.
- iii. **N. Y. Shaikh and M. A. Q. Shaikh 2009.** Improving quantity of quality seeds for food security: Required policy and strategic interventions. *International Conference on Plant Breeding and Seed for food security, Plant Breeding and Genetics Society of Bangladesh*, BARC Auditorium, Dhaka, 10-12 March, 2009, p. 89-93.
- iv. **N. Y. Shaikh and T. Adachi 2007.** Overcoming breeding barriers of interspecific hybridization in Buckwheat: An ultrastructural analysis and future prospects. *Conference on Promotion of Biotechnology in Bangladesh: National and International Perspectives*, April 6-8, 2007, University of Dhaka, p. 128.
- v. **N. Y. Shaikh 2007.** Importance of interspecific hybridization in Buckwheat: World and Bangladesh Perspectives. *7th Annual Conference, Plant Breeding and Genetics Society of Bangladesh*, May 26, 2007, page no. 128.
- vi. **N. Y. Shaikh, L.M. Guan and T. Adachi 2001.** Ultrastructural analysis on breeding barriers in post-fertilization of interspecific hybrids of buckwheat. *Proceedings of 8th International Symposium on Buckwheat (Advances in Buckwheat Research)*, Kanwon National University, Korea, page no. 319-329.

Proceeding/Seminar/Workshop/abstract/report as **Co-author: (2)**

- i. **Hoque M. E., and Shaikh N. Y. 2020.** Production and marketing of tissue culture based planting materials of rice, *Proceedings of the Workshop on Production and marketing of tissue culture based planting materials of High Value Crops*, Crops Division, BARC, Farmgate, Dhaka, page. 60-64
- ii. **Hoque M. E., Sultana S., Ferdous J., Shaikh N. Y., Hisham S. M., Roy R. K.,**

Hossain M. A. and Joya S. D. 2019. Biotechnology Division of BRRI: A center of excellence for rice biotechnological research in Bangladesh. *Abstract of the Annual Plant Tissue Culture & Biotechnology conference 2018*, BAPTC & B, Dhaka, Bangladesh, 31 Aug 2019, page 7.

News article as Principal author: (3)

- i. **N. Y. Shaikh 2022.** “টেকসই উন্নয়নের লক্ষ্যে বাংলাদেশ ধান গবেষণা ইনস্টিটিউট (ব্রি) এর জীবপ্রযুক্তি গবেষণা”, submitted to the magazine “চিরঞ্জীব মুজিব”, বাংলাদেশ ধান গবেষণা ইনস্টিটিউট, গাজীপুর।
- ii. **N. Y. Shaikh 2018.** “বাংলাদেশের কৃষি উন্নয়নে জিএম ফসলের গবেষণা ও আবাদ” (GM Crop Research and production for Agricultural Development); Submitted to *Writer’s pool*, BRRI, Gazipur.
- iii. **N. Y. Shaikh 2013.** কৃষিতে নারীর অবদান (Contribution of Women in Agriculture), *Pakkhik Shunajar*, a fortnightly magazine, vol. no. 3, p. 11-12, March 2013, Gazipur.

Leaflet as Co-author: (3)

1. **Hoque M. E., Sultana S., Ferdous J., Shaikh N. Y., Hisham S. M., Roy R. K., Hossain M. A. and joya S. D. 2019.** Leaflet on BRRI dhan92, a low water requirement high yielding Boro rice variety, Biotechnology Division, BRRI, Gazipur (in Bangla).
2. **Hoque M. E., Sultana S., Ferdous J., Shaikh N. Y., Hisham S. M., Roy R. K., Hossain M. A. and joya S. D. 2018.** Leaflet on BRRI dhan87, a high yielding Aman rice variety, Biotechnology Division, BRRI, Gazipur (in Bangla).
3. **Hoque M. E., Sultana S., Ferdous J., Shaikh N. Y., Hisham S. M., Roy R. K., Hossain M. A. and joya S. D. 2017.** Leaflet on BRRI dhan89, a high yielding Boro rice variety, Biotechnology Division, BRRI, Gazipur (in Bangla).

Poster as Principal author: (1)

1. **N. Y. Shaikh 2001.** Poster presented on Research progress of PhD work, *Conference on Biotechnology*, on 00.10.2001 at Osaka University, Japan.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Bangladesh Rice Research Institute Scientist's Association (BRRISA).
2. Plant Breeding and Genetics Society of Bangladesh.
3. Bangladesh Plant Tissue Culture & Biotechnology.