

## CURRICULUM VITAE OF NILUFAR YASMIN SHAIKH



**1. Name:** Nilufar Yasmin Shaikh

**2. Date of Birth:**

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**3. Permanent Address:** C/o Dr. Md. Anwarul Quader Shaikh, Former Director General, BINA, House no. 52, Main Road, Kalyanpur, Dhaka – 1207, Bangladesh;

**Telephone no.** 9039483; **Mobile No.** 01715792838;

**Email Address:** biithiii@gmail.com

**4. National ID no.** 2694811452454

**5. Field of Specialization:** Plant Breeding & Biotechnology

**6. Educational Qualifications (Starting from the last):**

| Names of Institutions                       | Degree/Certificate                           | Division/Class/Grade        | Year | Major Subjects                 |
|---|--|-----------------------------|------|--------------------------------|
| Osaka Prefecture University, Japan          | Doctor of Philosophy (Ph.D.) in Agriculture  | “A”                         | 2004 | Plant Breeding & Biotechnology |
| Miyazaki University, Japan                  | Master of Science in Agriculture (M. S. Ag.) | “A”                         | 1999 | Plant Breeding & Biotechnology |
| University of Dhaka, Dhaka                  | Bachelor of Science (Hons. in Botany)        | First Class (3 rd position) | 1994 | Botany, Chemistry & Zoology    |
| Muminunnisa Govt. College, Mymensingh       | Higher Secondary Certificate                 | Higher Second Division      | 1989 | Science subjects               |
| Viddiyamoyee Govt. Girls School, Mymensingh | Secondary School Certificate                 | First Division              | 1987 | Science subjects               |

## 7. Training Information [Starting from the last]:

### A. Local Training:

| <b>Title</b>   | <b>From</b> | <b>To</b>                | <b>Training Venue</b>  | <b>Sponsoring Agency</b>  | <b>Remarks</b>         |
|--|-------------|--------------------------|--|---|------------------------|
| 1. Genetic Data Analysis Software  | 23.06.2013  | 28.06.2013<br>(6 days)   | Bangladesh Rice Research Institute (BRRI), Gazipur                           | BRFD Project, Bangladesh Rice Research Institute                  | Completed Successfully |
| 2. Training Course on Research Proposal Preparation and Scientific Report Writing. | 11.05.2013  | 16.05.2013<br>(1 week)   | BRAC- Centre of Development and Management, Rajendrapur, Gazipur             | KGF, Bangladesh Agricultural Research Council (BARC) & BRAC (NGO) | Completed Successfully |
| 3. Training on Gene Cloning and Rice Transformation.                               | 15.04.2013  | 24.04.2013<br>(1 week)   | Bangladesh Rice Research Institute (BRRI), Gazipur                           | BRFD Project, Bangladesh Rice Research Institute                  | Completed Successfully |
| 4. Post Graduate Certificate Course on Seed Technology                             | 4.12.2011   | 4.03.2012<br>(3 months)  | Bangabandhu Sheikh Mujibur Rahman Agric. University (BSMRAU), Salna, Gazipur | BSMRAU, Salna, Gazipur  | Obtained "A" Grade     |
| 5. Foundation Training Course for NARS Scientists.                                 | 19.09.2010  | 16.01.2011<br>(4 months) | Bangladesh Academy of Rural Development (BARD), Comilla                      | BARC, Dhaka   | Completed Successfully |
| 6. Rice Production Training Course.  | 21.03.2010  | 19.04.2010<br>(1 month)  | BRRI, Gazipur  | BRRI, Gazipur   | Completed Successfully |
| 7. Hands on Training on Application of Genetic Engineering in Crop Improvement.    | 19.07.2009  | 28.07.2009<br>(1 week)   | University of Dhaka  | BARC & FAO  | Completed Successfully |

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| 8. Hybrid Rice Development and Seed Production.                                | 2.11.2009  | 4.11.2009<br>(3 days)  | BIRRI, Gazipur  | BIRRI, Gazipur | Completed Successfully |
| 9. Tissue Culture Technique & Indexing of Virus Diseases Through ELISA method. | 16.09.2007 | 20.09.2007<br>(5 days) | Tuber Crop Research Center (TCRC), Bangladesh Agriculture Research Institute (BARI) | TCRC, BARI     | Completed Successfully |

### B. Foreign Training:

| Title  | From       | To                       | Venue                       | Country  | Sponsoring Agency                        | Remarks                                      |
|--|------------|--------------------------|-----------------------------|----------|--|--|
| Laboratory Induction Course As Research Student. | 1.10.2000  | 31.03.2001<br>(6 months) | Osaka Prefecture University | Japan    | MONBUSHO Scholarship Authority           | Pre-requisite to Enroll in the Ph.D. Course. |
| Training on Biotechnology.                       | 25.05.2010 | 8.07.2010<br>(6 weeks)   | Kasetsart University        | Thailand | Bangladesh Agricultural Research Council | Satisfactorily Completed.                    |

### 8. Attendance in Seminars/ Conferences/ Workshops:

#### A. Local Seminar/Conference/ Workshop:

| Title  | From     | To       | Venue  | Sponsoring Agency                               | Remarks                |
|--|----------|----------|--|---|------------------------|
| Conference on Promotion of Biotechnology in Bangladesh: National and International Perspectives. | 06.04.07 | 08.04.07 | International Centre for Diarrheal Diseases & Research, Bangladesh | University of Dhaka, Bangladesh                 | Poster Presented.      |
| 7 <sup>th</sup> Biennial Conference of the Plant Breeding and Genetics Society of Bangladesh.    | 26.05.07 | 26.05.07 | BIRRI, Gazipur   | Plant Breeding and Genetics Society, Bangladesh | Attended Successfully. |

|  |            |            |                                    |  |  |
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| International Conference on Plant Breeding and Seed for Food Security.                       | 10.03.09   | 12.03.09   | BARC, Dhaka                        | Plant Breeding & Genetics Society of Bangladesh                  | Presented an Article on Quality Seed Production for Food Security. |
| Workshop on Biotechnology for Food Security and Farmer Prosperity.                           | 28.11.2012 | 29.11.2012 | The Westin Hotel, Gulshan-2, Dhaka | Agricultural Biotechnology Support Project (ABSPII)              | Successfully Attended.   |
| International conference on Biotechnology  | 25.05.2013 | 26.05.2013 | The Westin Hotel, Gulshan-2, Dhaka | CARES (Committee of Action for Research, Extension and Services) | Successfully Attended.   |
| 9 <sup>th</sup> Biennial Conference of the Plant Breeding and Genetics Society of Bangladesh | 25.10.2014 | 26.10.2014 | KIB Auditorium, Khamarbari, Dhaka  | Plant Breeding and Genetics Society of Bangladesh                | Successfully Attended.   |

#### B. Foreign Symposium/ Conference/ Study visit:

| Title                                      | From       | To         | Venue                      | Country | Sponsoring Agency          | Remarks   |
|--|------------|------------|----------------------------|---------|----------------------------|---|
| Conference on Plant Biotechnology.         | 00.10.2001 | 00.10.2001 | Osaka University           | Japan   | Osaka University           | Satisfactorily Presented the Research Results of Thesis.  |
| 8 th International Symposium on Buckwheat. | 30.08.2001 | 02.09.2001 | Kanwon National University | Korea   | Kanwon National University | Presented a Paper on Ultrastructural Analysis of Breeding Barriers in Interspecific Hybridization in Buckwheat. |

#### 9. Present Job Information:

a. **Name of Institute:** Bangladesh Rice Research Institute (BRRI)

b. **Designation:** Senior Scientific Officer

c. **Posting:** BRRI Head Office, Gazipur.

d. **Division:** Biotechnology

e. **Date of First Joining in Service:**

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f. **Employee ID no:** 1386

**10. Job Description** (starting from the current):

**(1) SSO, Biotechnology Division, Bangladesh Rice Research Institute, (2009-2015):**

**a. Executed research programs on Rice (2009-2010):**

- i) Development of salt tolerant rice through anther culture. ( as Co-investigator)
- ii) Field performance of tissue culture derived lines. (as Co-investigator)
- iii) Development of transgenic rice through *Agrobacterium* mediated transformation. (as Co-investigator)

**b. Executed research programs on Rice (2010-2011):**

- i) Development of salt tolerant rice through anther culture. ( as Co-investigator)
- ii) Field performance of tissue culture derived lines. (as Co-investigator)
- iii) Diversity analysis in Aus genotypes using SSR markers. (as Co-investigator)
- iv) Distinctness, Uniformity and Stability (DUS) tests for the BIRRI released varieties. (as Co-investigator)

**c. Executed the following Annual Research Program on Rice (2011-12):**

- i) Hybridization and progeny selection in rice.
- ii) Identification of yield enhancement QTLs from wild rice *O. rufipogon*.
- iii) Development of somaclone from the variety BIRRI dhan 47.
- iv) Introgression of submergence tolerance gene (*sub-1*) in variety BIRRI dhan 44 using MAB.

**d. Executed the following Research Program in Rice (2012-13):**

- i) *In vitro* screening for drought tolerant rice variety using PEG.
- ii) Seed increase & observational trial of developed somaclonal lines of BIRRI dhan 47.
- iii) MAB to introduce lodging resistance (*sd-1*) in an Aman rice cultivar, Biroi.

**e. Executed the following Research Program in Rice (2013-14):**

- i) Development of salt tolerant rice through anther culture.
- ii) Identification of QTLs for salinity tolerance at both seedling & reproductive stage.
- iii) Observational trials for desirable materials.
- iv) Development of drought tolerant rice lines through *in vitro* screening.
- v) MAB to introduce lodging resistance (*sd-1*) in an Aman rice cultivar, Biroi.

**f. Executed the following Research Program in Rice (2014-15):**

- i) Development of salt tolerant rice through anther culture.
- ii) Development of aromatic & fine grain rice variety through anther culture.
- iii) Development of somaclonal lines through seed culture.
- iv) Identification of QTLs for salinity tolerance at both seedling & reproductive stage.
- vi) Observational trials & preliminary yield trials for desirable materials.

**(2) SSO, Strengthening of Pulses and Oilseed Research Program in Bangladesh, Oilseed Research Center, Bangladesh Agriculture Research Institute (2008):**

**a. Executed Variety Development Research Programs on Groundnut:**

- i) Evaluation of F<sub>2</sub>, F<sub>4</sub>, F<sub>6</sub> generation of groundnut. (as Principal Investigator).
- ii) Tenth International Short Duration Groundnut Varietal Trial (from ICRISAT). (as Principal Investigator).
- iii) Tenth International Confectionary Groundnut Varietal Trial (from ICRISAT), (as Principal Investigator).
- iv) Preliminary Yield Trial of Groundnut (as Principal Investigator).
- v) Growing of F<sub>1</sub>, F<sub>3</sub>, F<sub>5</sub> generation of groundnut. (As co-investigator).
- vi) Evaluation of Tenth International Medium Duration Groundnut Varietal Trial (Virginia bunch) (ICRISAT). (as co-investigator).
- vii) Sixth International Drought Resistant Groundnut Varietal Trial. (Spanish bunch), ICRISAT. (as co-investigator).
- viii) Regional Yield Trial of Groundnut. (as co-investigator).

**b. Imparted training to farmers on seed production of oilseed crops.**

**(3) SSO, Strengthening of Tuber Crops Research Program in Bangladesh, Tuber Crops Research Center, Bangladesh Agriculture Research Institute (2007):**

- a. Executed variety development research programs on tuber crops.

**(4) Agriculture Officer, UNMESH (Poor People Development Organization)(2005-6): NGO.**

- a. Advised the project staff on variety performance trials of rice & maize and preparation of project proposal & writing report.

**(5) Director (Program), CIRAD (Center for Integrated Rural and Agricultural Development) (2004-5): NGO.**

Designing the Programme & Strategic Planning for Implementation of projects obtained from development programmes of some Agricultural organizations. In the micro level the work involved application of Agricultural Technology, Agriculture Practice Management &

Conduction of Research.

**(6) Foreign Researcher, Faculty of Agriculture, Miyazaki University, Japan (1999-2000):**

Worked as a Foreign Researcher in the Departmental Programme, Faculty of Agriculture, Miyazaki University on “Biotechnological Approaches to Overcoming Breeding Barriers of Buckwheat.

**11. Length of Service:** Year(s): Month(s):

**12. Number of Publication:** 11

**13. List of Publications:**

**(i) Scientific International Journals:**

**Full paper as Principal author (3):**

1. **Shaikh, N.Y.,** 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* **46**: 37-45.
2. **Shaikh, N.Y.,** 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**: 9-13.
3. **Shaikh, N.Y.,** 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**: 171-176.

**(ii) Seminar/Conference/ Symposium:**

**As Principal author (4):**

1. **Shaikh, N.Y.,** L.M. Guan and T. Adachi (2001). Ultrastructural analysis on breeding barriers in post-fertilization of interspecific hybrids of buckwheat. *Proceedings of 8<sup>th</sup> International Symposium on Buckwheat (Advances in Buckwheat Research)*, p. 319-329.
2. **Shaikh, N.Y.** 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.

3. **Shaikh, N.Y.** (2007). Importance of interspecific hybridization in Buckwheat: World and Bangladesh Perspectives. *7th Annual Conference, Plant Breeding and Genetics Society of Bangladesh*, May 26, 2007, p. 128.
4. **Shaikh, N.Y. & 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.

**(iii) Review Papers (4):**

1. **Shaikh, N. Y. 2010.** “Kul Dbqtb evtqvtUKtbvjRi e`envi l SIK” “Bangladesh Agriculture”, *Journal of the Bangladesh Academy of Agriculture*, 3 (1): 61-70.
2. **Shaikh, N. Y. 2011.** “Crop Biotechnology: An emerging science in Bangladesh”. “Bangladesh Agriculture”, *Journal of the Bangladesh Academy of Agriculture*, 4 (1): 32- 46 .
3. **Shaikh, N. Y. 2013** “Potential of Yield Enhancing Quantitative Trait Loci (QTLs) in Rice Improvement”, “Bangladesh Agriculture”, *journal of the Bangladesh Academy of Agriculture*, 5 (1): 49-61.
4. **Shaikh N. Y. 2013** “Contribution of Women in Agriculture” *Pakkhik Shunajar*”, a fortnightly magazine, Vol. no. 3, p. 11-12, March 2013, Gazipur.

**14. Academic/research award if any:**

- i) Was awarded Rotary Yoneyama Memorial Scholarship (April, 1989 – March, 1999) for higher studies leading to Master of Science in Agriculture Degree at the Laboratory of Plant Breeding and Biotechnology, Miyazaki University, Japan.
- ii) Was awarded MONBUSHO Scholarship for higher studies leading to Ph.D. Degree (Oct, 2000 - March, 2004) in the field of Plant Breeding and Biotechnology, Osaka Prefecture University, Japan.



## **15. Membership of Professional Societies:**

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(i) Member, Plant Breeding and Genetics  
Society of Bangladesh.

(ii) Member, BRRI Scientists Association.

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**(Nilufar Yasmin Shaikh)**

**Signature**

**Date: 15.04.2015**