

Curriculum Vitae of Shampa Das Joya, MS



Senior Plant Breeder (SSO), Biotechnology Division, BRRI, Gazipur-1701. Cell phone:
01758851458 E-mail: shampanjoya@gmail.com

Career Objective:

Aim to be associated with an esteemed organization with fair working environment. To apply the knowledge that I have accumulated from the experience and training, enable me to improve my skills, increase my practical experience, fulfill my personal ambitions and expand my knowledge.

Interests:

- Increase rice production using recent improved machinery and molecular techniques.
- Establishment a high-level proteomics study in rice
- Develop heat and drought tolerant rice variety.
- Cloning of valuable rice gene.
- Find out important rice mutant.
- Development of marker related to important rice gene.
- Development of excellent CRISPR technology in rice.

Area of Specialization: Rice breeding, Tissue culture, Molecular biology, Genetic Engineering of rice, Marker Aided Selection (MAS) and Marker Aided backcross (MAB)

Professional experience with duration

Employer	Designation	Duration	Major areas of research
BRRI, Gazipur, Bangladesh	Senior Plant Breeder (SSO)	15.05.2025 to till now	Tissue culture, genetic engineering and Marker Aided Selection (MAS) for the development of new rice variety

Scholastic Records:

Name of the Exam	Board/University	Field	Year of Passing	Class/CGPA/ Division
Master of Science	Bangladesh Agricultural University, Bangladesh	Genetics and plant Breeding	2010	CGPA 3.823 out of 4
B.Sc. Ag (Hons)	Bangladesh Agricultural University, Bangladesh	Agriculture	2009	CGPA 3.495 out of 4
Higher Secondary Certificate	Educational Board, Dhaka	Science	2004	CGPA 4.00 out of 5
Secondary School Certificate	Educational Board, Dhaka	Science	2002	CGPA 4.63 out of 5

Experience summary:

- Increase rice production using recent improved machinery and molecular techniques.
- Development of stress (Salinity and Drought) tolerant rice varieties through anther culture.
- Field performance evaluation of anther culture derived lines at saline and favorable ecosystem.
- Development of stress (drought and salinity) tolerant rice varieties by integrating *TPSP*, *GlyI* and *GlyII* genes in BRRI dhan29 through agrobacterium mediated transformation.
- Development of rice variety through Marker Assisted Back Cross Breeding (MABC).
- Development of Aus variety through somaclonal variation
- Development of somaclone using EMS treated rice seed
- Introgression of salt tolerant mangrove gene
- Development of high yielding aromatic rice lines through genome editing
- Development of blast resistant rice lines through genome editing

- Development of a new thermo-sensitive genic male sterile rice line by TMS5 gene through CRISPR/Cas9 system

Published Paper:

A. Research Article (Published as full-length paper)

1. **SD Joya^{1*}**, Shamsuddin AKM, Ujjal Kumar Nath 2017. **Genetic Variability, Heritability and Characters Associations in Rapeseed (*Brassica napus L.*)**. *Bangladesh Journal of Plant Breeding and Genetics* and Vol 29 No 2
2. **SD Joya^{1*}**, Shamsuddin AKM, Ujjal Kumar Nath 2017. **GENETIC DIVERSITY OF RAPESEED (*Brassica napus L.*) GENOTYPES IN BANGLADESH**. *Bangladesh Journal of Plant Breeding and Genetics* and Vol 30 No 2
3. Al-Mamun¹, N Parvin^{2*}, S Razia³, **S D Joya³** and S Paul 2014⁴. Organogenesis of DENDROBIUM Orchid with Organic Supplementations and Sugar. *Eco-friendly Agril. J.* 7(07): 69-75
4. **SD Joya^{1*}**, S sultana¹, J Ferdous¹, MA Qayum² and M E Hoque¹, 2019. Response to callus induction and regeneration of newly released BRRI varieties. *Bangladesh. Rice J.* 23 (2):17-25, 2019, doi.org/10.3329/brj.v23i2.48244

B. Research Article (Abstract)

1. Shahanaz Sultana, **Shampa Das Joya**, Jannatul Ferdous, M Enamul Haque. **Introgression of mangrove *AeMDHAR* in rice for the improvement of salt tolerance**. An abstract published in the 7th Annual South Asia Biosafety Conference, September 14-16, 2019 at *The Westin, Dhaka*, located at Main Gulshan Avenue, CWN (B) Road 45, Plot 1, Gulshan 2, Dhaka, Bangladesh.
2. M. Enamul Hoque*, Shahanaz Sultana, Jannatul Ferdous, Nilufar Yasmin, Shaikh S.M. Hisam AI Rabbi, Ripon Kumar Roy, M. Arafat Hossain and **Shampa Das Joya**. **Biotechnology Division of BRRI: A Centre of Excellence for Rice Biotechnological Research in Bangladesh**. An abstract published in the Annual Plant Tissue Cult. & Biotech. Conf. Dhaka, Bangladesh, 31 August, 2019, Department of Botany, University of Dhaka.
3. **Shampa Das Joya^{1*}**, Shahanaz Sultana¹, Jannatul Ferdous¹, Md. Abdul Qayum² and M Enamul Hoque¹. Varietal response to callus induction and regeneration of newly released BRRI rice varieties. 9th International Plant Tissue Culture and Biotechnology Conference 2019 held on February 8-10, 2020 at the Department of Botany, University of Dhaka.

4. **Shampa Das Joya**^{1*}, Shahanaz Sultana¹, Jannatul Ferdous¹ and M Enamul Hoque¹. – “**Development of Aus rice variety through somaclonal variation**”. Annual Plant Tissue Culture and Biotechnology Conference 2020 held in the virtual (Zoom platform) on March 6, 2021 organized by BAPTC & B.

5. Shahanaz Sultana*, Jannatul Ferdous, Nilufar Yasmin, Shaikh S.M. Hisam Al Rabbi, Ripon Kumar Roy, M. Arafat Hossain and **Shampa Das Joya**, Md Sentu Rahman and Md. Enamul Hoque. **Biotechnological Research Advancement in BRRI for Sustainable Rice Production**. International Symposium for the 50 years of BRRI. 24th February, 2023, BRRI, Gazipur.

Leaflet:

1. Dr. Md. Enamul Hoque, Dr. Shahanaz Sultana, Dr. Jannatul Ferdous, Dr. Nilufar Yasmin Shaikh, Dr S.M. Hisam Al Rabbi, Ripon Kumar Roy, Md. Arafat Hossain, **Shampa Das Joya**. 2017. BRRIdhan87-Short duration, lodging resistant, high yielding Boro rice variety. A leaflet published by Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701

2 Dr. Md. Enamul Hoque, Dr. Shahanaz Sultana, Dr. Jannatul Ferdous, Dr. Nilufar Yasmin Shaikh, Dr S.M. Hisam Al Rabbi, Ripon Kumar Roy, Md. Arafat Hossain, **Shampa Das Joya**. 2018. BRRIdhan87- lodging resistant Aman rice variety. A leaflet published by Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701.

3. Dr. Md. Enamul Hoque, Dr. Shahanaz Sultana, Dr. Jannatul Ferdous, Dr. Nilufar Yasmin Shaikh, Dr S.M. Hisam Al Rabbi, Ripon Kumar Roy, Md. Arafat Hossain, **Shampa Das Joya**. 2018. BRRIdhan89-high yielding Boro rice variety. A leaflet published by Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701.

4.. Dr. Md. Enamul Hoque, Dr. Shahanaz Sultana, Dr. Jannatul Ferdous, Dr. Nilufar Yasmin Shaikh, Dr S.M. Hisam Al Rabbi, Ripon Kumar Roy, Md. Arafat Hossain, **Shampa Das Joya**. 2018. BRRIdhan92-high yielding water saving Boro rice variety. A leaflet published by Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701.

5.. Dr. Md. Enamul Hoque, Dr. Shahanaz Sultana, Dr. Jannatul Ferdous, Dr. Nilufar Yasmin Shaikh, Dr S.M. Hisam Al Rabbi, Ripon Kumar Roy, Md. Arafat Hossain, **Shampa Das Joya**, Md Sentu Rahman. 2024. BRRIdhan103-Medium duration, high yielding Aman rice variety. A leaflet published by Biotechnology Division, Bangladesh Rice Research Institute, Gazipur-1701

Poster Preparation:

Shahanaz Sultana, Jannatul Ferdous, **Shampa Das Joya**, M Enamul Haque. **Introgression of mangrove *AeMDHAR* in rice for the improvement of salt tolerance.** An poster published in the 7th Annual South Asia Biosafety Conference will be held at *The Westin, Dhaka*, located at Main Gulshan Avenue, CWN (B) Road 45, Plot 1, Gulshan 2, Dhaka, Banglad

Workshop:

1. 6th National Workshop, Bioinformatics for Sustainable Development in Agriculture, Health and Environment held on 13-14 December 2017 at BRRI.

2. Organization for Women in Science for the Developing World (OWSD) Challenging Research by Women in STEM: OWSD-BDBAEC Auditorium, Dhaka, 10 November, 2018

1. GTI Training (MS Word, MS PowerPoint, MS Excel, Internet Browsing and Fundamental works), GTI, BAU Mymensingh during 09 to 21 May, 2009

2. Data Analysis: MStatc and SPSS during 01 to 12 August, 2010

3. Theory and practice of Molecular Breeding in Rice, BRRI, Gazipur-1701 from Jan 26 to Feb 01, 2012

4. Gene cloning and Rice Transformation in BRRI, Gazipur-1701 from April 15 to April 24, 2013

5. Genetic Data Analysis Software in BRRI, Gazipur -1701 from 23 June to 28 June 2013

6. Two (2) months rice production and communication training course held from 29 February to 28 April, 2016 at BRRI, Gazipur

7. Training on programming R for experimental design and data analysis held from 12 to 16 February 2017 at BRRI, Gazipur

8. Hybrid Rice Development and Seed Production Training held from 5 to 9 November 2017 at BRRI, Gazipur.

9. Research Methodology Training, GTI, BAU Mymensingh during 06 to 19 March, 2018

10. Hybrid Rice Technology for Bangladesh, Yuan Long ping Hi-Tech. Co. Ltd. Hunan province, China during 31th July to 28th September, 2018

11. N-26th Foundation Training Course for NARS Scientist, National Agriculture Training Academy during 17th February to 16th June, 2019

12. Agricultural Research Methodology held from 16 to 20 November 2019 at BRRI, Gazipur

13. Rice Physiological Development Through Trait Discovery held from 28 December 2019 to 2 January 2020 at BRRI, Gazipur

14. Scientific Report Writing held from 1 to 5th November, 2020 at BRRI, Gazipur.

15. C4 rice phenotyping training held from 25th to 26th April, 2021 at BRRI, Gazipur.

16. Hands on training on molecular biology techniques and basics on bioinformatics

held from 16th to 29th, 2021 August at BRRI, Gazipur.

17. Climate Smart Agriculture (CSA)-Concept and Impact held from 6th to 8th, 2021 September at BRRI, Gazipur.

Membership of Professional Societies

a) Krishibid Institution of Bangladesh

b) Genetics and Plant Breeding Society of Bangladesh

c) Bangladesh Rice Research Institute Scientist's Association

d) Bangabandhu Krishibid Parishad

e) General member of Bangladesh Association for plant tissue culture (BAPTC-&B)

f) General member of Bangladesh Bioinformatics and Computational Biology

Association (BBCBA)

Computer literacy:

Ms Word, Ms Excel, Ms Access, Power Point, Photo shop, LAN, internet, mail merge, report designing.

Personal details:

Name	:	SHAMPA DAS JOYA, MS
Permanent address	:	Village: Vora-180/6, PO: Gazipur-1700 Gazipur Sadar Gazipur-1701
Date of birth and place	:	1987-12-10 [YYYY-MM-DD]

Nationality	:	Bangladeshi (By birth)
Religion	:	Hindu
Sex	:	Female
Marital status	:	Married
Height	:	5' 1"
Blood group	:	A ⁺

References

<p>1.. Dr. Shahanaz Sultana PSO & Head, Biotechnology Division, BRRI, Gazipur- 1701 Mail: shahanaz 107 @ yahoo.com Mob: 01748218332</p>	<p>2. Dr. Md. Shahidul Haque Professor Department of Biotechnology Bangladesh Agricultural University, Mymensingh Mail: haquems @ bau.edu.bd haquems@yahoo.com Mob: 01716-066503</p>
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Signature: **Shampa Das Joya, MS**

