

# Curriculum Vitae of Sarowar Hosen

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## Personal Information

**Name** : Sarowar Hosen  
**Father's Name** : Keramat Ali Howlader  
**Mother's Name** : Selina Begum  
**Date of Birth** : 07 July 1991  
**Permanent Address** : Village: Molladi Bajitpur, Post: Bajitpur,  
Upazilla: Rajoir, Dist.: Madaripur, Division: Dhaka  
**Present Address** : Holding-10/11, Kajlar par, Chan Mia Road, Word-63, Thana-  
Jatrabari, Dhaka-1236  
**Blood Group** : O<sup>+</sup>  
**Nationality** : Bangladeshi  
**Marital Status** : Married  
**Sex** : Male  
**Religion** : Islam

## Educational Qualifications:

**SSC** : Ghatakchar High School, Passing Year: 2006, Result: GPA 4.88  
**HSC** : Govt. Nazimuddin College, Passing Year: 2008, Result: GPA 5.00  
**B.S. (Hons.)** : University of Dhaka, Passing Year: 2013, Result: CGPA 3.96 out of  
4.00 scale (Position 1<sup>st</sup>).  
**M.S.** : University of Dhaka, Passing Year: 2014, Result: CGPA 4.00 out of  
4.00 (Position 1<sup>st</sup>)

## Dissertation

- MS 2014. “**Management of anthracnose and soft rot diseases of *Corchorus capsularis* L**”.  
Mycology and Plant Pathology Laboratory, Department of Botany, University of Dhaka.

## Work Experience

- Lecturer: 17 July 2016 – 08 September 2020
- Assistant Professor: 09 September 2020- Present

### **Research Interest:**

- Isolation, morphological and molecular identification of fungi associated with different hosts.
- Molecular identification of plant pathogens associated with different diseases of cereal crops including seeds (wheat, rice, maize, etc.), and pathogens associated with mustard seeds as well as vegetables (potato, tomato, chilli, basella etc.).
- Chemical and biological control of different pathogens.
- Morphological and molecular characterization of *Pyricularia oryzae* isolates causing wheat blast in Bangladesh.
- Genetic diversity and virulence assay of *Pyricularia oryzae* isolates causing wheat blast in Bangladesh.
- Identification of sources of resistance gene to wheat blast pathogen from wild cultivars of wheat.
- S-nitrosylation regarding plant immunity.

### **Research Projects received:**

01. Project title: Management of seed borne fungi associated with selected newly released BRRI rice varieties. Special Allocation 2020-2021 (**Extension**), Funded by Ministry of Sciences and Technology, Govt. of the People's Republic of Bangladesh. Principal Investigator: Prof. Dr. Shamim Shamsi and Associate Investigator: Sarowar Hosen.
02. Project title: Biodiversity of endophytic mycoflora associated with three medicinal plants of Curzon Hall campus, University of Dhaka. Centre for Advanced Studies and Research in Biological Sciences financed research grants in the year 2019-2020. Investigator: Sarowar Hosen.
03. Project title: Management of seed borne fungi associated with selected newly released BRRI rice varieties. Special Allocation 2019-2020, Funded by Ministry of Sciences and Technology, Govt. of the People's Republic of Bangladesh. Principal Investigator: Prof. Dr. Shamim Shamsi and Associate Investigator: Sarowar Hosen.
04. Project title: Identification and management of seed borne fungi associated with selected BRRI rice varieties. Special Allocation 2016-2017, Funded by Ministry of Sciences and Technology, Govt. of the People's Republic of Bangladesh. Principal Investigator: Prof. Dr. Shamim Shamsi and Associate Investigator: Sarowar Hosen.
05. Project Title: Isolation, characterization, molecular identification and in vitro management of pathogenic fungi of leaf blight of tomato (*Lycopersicon esculentum* Mill.). University Grants Commission financed research grants in the year 2017-18. Investigator: Sarowar Hosen.
06. Project title: Isolation, characterization, identification and management of pathogens of leaf spot of *Basella alba* L. and *Basella rubra* L. Centre for Advanced Studies and Research in Biological Sciences financed research grants in the year 2017-2018. Investigator: Sarowar Hosen.

## Academic award & Scholarships:

1. Secured **academic award** of merit for the first position in each year of B. S. (Honrs.) examination.
2. Awarded “**Gold Medal**” for securing first position in B. S. (Hons.) Examination by the Department of Botany, University of Dhaka.
3. Obtained **NST Fellowship** from Ministry of Science and Technology, the Government of the People’s Republic of Bangladesh for M. S. research.
4. Obtained **EBL-DUAA** (Eastern Bank Limited & Dhaka University Alumni Association) **Scholarship** 2010-11 and 2011-12.

## List of Publications:

1. Abdullah-Al-Kaium, **Hosen S** and Shamsi S 2022. Frequency, abundance and distribution of lichen in National Botanical Garden, Mirpur, Dhaka, Bangladesh. Dhaka University Journal of Biological Sciences. (Submitted)
2. **Hosen S**, Noman AA and Shamsi S 2022. Report on fungi associated with coral skeleton from saint martin's island, Bangladesh. Bangladesh Journal of Plant Taxonomy. (Submitted)
3. Johora FT, **Hosen S** and Shamsi S 2022. *In vitro* screening of fungicides and plant extracts against two pathogenic fungi of *Chrysanthemum morifolium* Ramat. Dhaka University Journal of Biological Sciences. (Submitted)
4. Noman AA, **Hosen S** and Shamsi S 2021. Morphological and molecular characterization of *Pyricularia oryzae* isolates causing wheat blast in Bangladesh. Indian Phytopathology **74**: 123-131.
5. Noman AA, **Hosen S** and Shamsi S 2022. Elucidating genetic diversity and population structure of *Pyricularia oryzae* isolates causing wheat blast in Bangladesh. Archives of Microbiology **204**(2):134.
6. Shova NJ, **Hosen S** and Bashar MA 2020. Evaluation of fungicides and plant extracts against pathogenic fungi associated with *Basella* spp. J. Asiat. Soc. Bangladesh, Sci. **46**(1): 81-89.
7. Shamsi S, Islam MN, **Hosen S**, Al-Mamun M, Chowdhury P, Momtaz MS, Naher N, Yeasmin Z, Sultana S, Khatun A, Abu-Al-Islam and Bashar MA 2019. Morphological and molecular identification of ten plant pathogenic fungi. Bangladesh J. Plant Taxon. **26**(2): 169–177.
8. Nahar MN, **Hosen S** and Shamsi S 2019. Prevalence of fungi associated with seeds of three cotton varieties (*Gossypium arboreum* L.) in storage. Bioresearch Communications **5**(1): 642-648.
9. Helal RB, **Hosen S** and Shamsi S 2018. Mycoflora associated with post-harvest disease of papaya (*Carica papaya* L.) and their pathogenic potentiality. Bangladesh J. Bot. **47**(3): 389-395.
10. Shamsi S, **Hosen S** and Ahmed A 2018. Fungi associated with leaves of *Sonneratia apetala* Buch. Ham. and *Sonneratia caseolaris* (L.) Engler from Rangabali coastal zone of Bangladesh. Dhaka Univ. J. Bio. Sci. **27**(2): 155-162.
11. Nasim ASM, Hosen S and Bashar MA 2017. Incidence of diseases in germplasm of *Corchorus olitorius* L. and control of fungal pathogens. Dhaka Univ. J. Bio. Sci. **26**(2): 189-198.
12. Miah A, Shamsi S, **Hosen S** and Morshed MS 2017. *In vitro* efficacy of plant extracts on seed germination and fungal infection of six varieties of wheat (*Triticum aestivum* L.). Bioresearch Communications **3**(2): 415-421.
13. Shamsi S, **Hosen S** and Begum M 2017. New record of *Gonatophragmium mori* (Sawada) Deighton on *Ficus hispida* L. from Bangladesh. Bangladesh J. Plant Taxon. **24**(1): 125-127.

14. Al-Ameen M, Shamsi S, **Hosen S** and Bashar MA 2017. Antagonistic potentiality of four soil fungi against pathogenic fungi associated with infected fruits of *Musa sapientum* L.” Bangladesh J. Bot. **46**(2): 733-738.
15. Islam MA, Shamsi S, **Hosen S** and Bashar MA 2017. *In vitro* effect of five plant extracts and five fungicides on *Fusarium oxysporum* Schlecht. and *F. solani* (Mart.) Sacc. causal agent of brinjal (*Solanum melongena* L.) wilt. Dhaka Univ. J. Bio. Sci. **26**(1): 39-44.
16. Shamsi S and **Hosen S** 2016. Report on mycoflora associated with infected stems and capsules of *Nigella sativa* L. (Black Cumin). Bioresearch Communications **3**(1): 298-301.
17. Shamsi S and **Hosen S** 2016. Mycoflora associated with fruit rot of custard apple (*Annona squamosa* L.). Bangladesh J. Sci. Res. **29**(2):173-176.
18. Shamsi S, **Hosen S**, Manun MA and Begum M 2016. Mycoflora associated with infected fruits of *Momordica cochinchinensis* (Lour.) Spreng. Bangladesh J. Plant Taxon. **23**(2): 181-188.
19. Shamsi S and **Hosen S** 2016. New record of *Monochaetia karstenii* var. *gallica* (Stey.) Sutton on *Brassica napus* L. from Bangladesh. J. Asiat. Soc. Bangladesh, Sci. **42**(1):127-128.
20. **Hosen S**, Shamsi S and Bashar MA 2016. *In vitro* efficacy of fungicides and plant extracts on the growth of *Colletotrichum gloeosporioides* (Penz.) Penz. & Sacc. and *Sclerotium rolfsii* Sacc. the causal organisms of anthracnose and soft rot of jute. Dhaka Univ. J. Bio. Sci. **25**(2):195-199.
21. **Hosen S**, Shamsi S and Bashar MA 2016. *In vitro* biological control of *Colletotrichum gloeosporioides* (Penz.) Sacc. and *Sclerotium rolfsii* Sacc., causal agent of anthracnose and soft rot of *Corchorus capsularis* L. Bangladesh J. Bot. **45**(1): 175-180.

### Seminar:

1. Lecture on **Canola (*Brassica napus*) Molecular Breeding-Research at University of Alberta, Canada**. Speaker: Dr. Habibur Rahman, University of Alberta, Canada. 20 July 2016. Organized by Chromosome Research Centre, University of Dhaka.
2. Seminar lecture on **“Increasing genetic variation in rapeseed by chemical mutagenesis and genome editing”** given by Prof. Dr. Christian Jung, Plant Breeding Institute, Christian-Albrechts University of Kiel, Olshausenstr. 40, 24098 Kiel, Germany, organized by Department of Botany, University of Dhaka. Dated: 03 December 2017.
3. Seminar lecture captioned **“Development of QTL conferring Ascochyta blight and Fusarium wilt resistance in chickpea (*Cicer arietinum* L.)”** delivered by Dr. Hamwieh Aladdin, International Center for Agricultural Research in the Dry Areas (ICARDA), P.O. Box. 114/5055, Beirut, Lebanon, organized by Department of Botany, University of Dhaka. Dated: 03 December 2017.
4. Lecture on **“Application of cell technologies and gene editing tools for crop improvement”**. Speaker: Pankaj Bhowmik, Research scientist, National Research Council of Canada. Organized by Department of Botany, University of Dhaka. Dated: 12 July 2018.

## Conferences:

1. 7<sup>th</sup> International Tissue Culture and Biotechnology Conference, Department of Botany, University of Dhaka, Bangladesh, 2014 (March).
2. 6<sup>th</sup> International Botanical Conference, 6-7 December, 2014, Dhaka, Bangladesh. Organized by Bangladesh Botanical Society. **Theme: “Role of Botanist in Global Climate Change”.**
3. Annual Botanical Conference, 4-5 December, 2015, Dhaka, Bangladesh. Organized by Department of Botany, Faculty of Biological Sciences, Jahangirnagar University, Savar, Dhaka-1342, Bangladesh and Bangladesh Botanical Society. **Theme: “Plant Sciences: Challenges and Opportunities”.**
4. 9<sup>th</sup> Biennial Bangladesh Phytopathological Conference, 19 February 2016, Bangladesh Agricultural Research Institute, Gazipur. Organized by Bangladesh Phytopathological Society. **Theme: “Challenges ahead to Pathologists for the changed plant disease scenario due to climate change”.**
5. 7<sup>th</sup> International Botanical Conference 2017, 3-4 February 2018, Dhaka, Bangladesh. Organized by Bangladesh Botanical Society. **Theme: “Plant Diversity – Food security and environmental management”.**

## Workshop:

1. Workshop on “**National Integrity, Service Delivery and Good Governance**”, Ministry of Planning, The Government of the People’s Republic of Bangladesh.
2. A day long 2nd workshop on **Self-Assessment Improvement Plan (SAIP)** under Institutional Quality Assurance Cell, Dhaka University (IQAC-DU), 14 July 2016.
3. 3rd workshop on **Post Self-Assessment Plan (PSAIP)** under Institutional Quality Assurance Cell, Dhaka University (IQAC-DU), 18 April 2016.
4. A day long workshop on Course Curriculum Design of **SA-Entity under IQAC-DU** organized by Department of Botany, University of Dhaka, 26 June 2018.
5. Workshop on "**Fundamentals of IT and Advanced IT skills**" organized by Centre of Excellence in Teaching and Learning (CoETL), University of Dhaka. 06 August 2018.

## Courses taught & taken at undergraduate level

### Theory courses (2):

- BOT 102: Lower fungi and
- BOT 413: Seed Pathology

## **Practical courses (8):**

### Departmental:

- BOT 102 (Lower fungi)
- BOT 104 (Bryophytes)
- BOT 201 (Higher fungi)
- BOT 204 (Synecology)
- BOT 206 (Fundamental Plant Physiology)
- BOT 302 (Plant Pathology)
- BOT 304 (Physiological Ecology and Conservation Biology)
- BOT 309 (Pteridophyta)
- BOT 412 (Microbial Plant Pathology)
- BOT 413 (Seed Pathology)

### Extra-Departmental:

- BOT 2003 (Ecology, Environment and Plants)

## **Member of Organization/Association:**

1. Bangladesh Botanical Society (BBS)
2. Bangladesh Association for Plant Tissue Culture and Biotechnology (BAPTC&B)
3. Bangladesh Association of Plant Taxonomists (BAPT)
4. Dhaka University Botany Alumni Association (DUBAA)

## **Excursion or Study Tour:**

1. Departmental tour in National Mushroom Development and Extension Centre (NAMDEC), Sobhanbag, Savar, Dhaka-1340, Bangladesh. Department of Agricultural Extension, Ministry of Agriculture.
2. Departmental tour in Salban Bihar, Mainamati, Comilla, Bangladesh.
3. Departmental tour in Chittagong Hill Tracts, Khagrachari, Chittagong, Bangladesh.
4. Departmental tour in Sylhet-Moulvibazar-Sreemongal.

## **Others:**

- An **active member** in the organization of countrywide **Botany Olympiad** organized by the association of Bangladesh Botanical Society, Dhaka University Botany Alumni Association and Department of Botany, University of Dhaka.
- **Acting as judge** in the **National Science Quiz Competition** on the occasion of National Science and Technology week, organized by National Museum of Science and Technology, Agargaon, Sher-E-Banglanagar, Dhaka, Bangladesh.