

Curriculum Vitae of  
**Md. Abul Kashem**



**Contact address**

Lecturer  
Ecology and Environment Laboratory  
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**Research area**

My research area and teaching are Plant Ecology and Environmental Biology. Research interests on understanding adaptation mechanisms of plants and interactions between plants (including legumes) and rhizobia in relation to environmental stresses e.g. salinity, drought, and arsenic.

**Academic Qualifications**

|                        |   |
|------------------------|---|
| 2014<br>(Held in 2015) | M.S. (Masters of Science), GPA 4.00 out of 4.00 scale, Department of Botany, University of Dhaka.     |
| 2013<br>(Held in 2014) | B.S. (Bachelor's of Science), CGPA 3.86 out of 4.00 scale, Department of Botany, University of Dhaka. |
| 2008                   | H.S.C. (Science), GPA 5.00 out of 5.00 scale, Hazi Hamejuddin Mridha college, Patuakhali.             |
| 2006                   | S.S.C. (Science) GPA 4.94 out of 5.00 scale, Kuripaika High School, Patuakhali.                       |

**Profession**

**Employment**

|            |   |
|------------|---|
| Lecturer   | Department of Botany, University of Dhaka, Dhaka (October 01, 2019 – till now)                          |
| Researcher | Worked as Research Assistant, Department of Botany, University of Dhaka (July 01, 2016 - June 30, 2019) |

**Teaching responsibility**

Teaching courses Pteridophyta (B.S) and Ecology and Environment (B.S.)

**Skills**

**Laboratory techniques**

1. Basic microbiological: Plating, culturing, inoculation, isolation, purifying, staining, microscopy
2. Chemical analysis: Basic elements, organic and inorganic compound analysis of plant and soil samples
3. Molecular biology: DNA extraction, purification, PCR, Sequencing

### **Computing**

1. Word processing (Word), Graphics Software (Power Point, Photo editor, Photo Shop, Image J), Data-sheets (Excel)
2. Comparative Genomics: Blast and specialized software to infer on gene sequences
3. Multivariate Statistics: JMP (SAS Institute),

### **Publication**

1. Jake FA, Rahman MH, **Kashem MA** and Hossain MZ 2020. Spatio-temporal variation in leaf traits of Sal (*Shorea robusta* Gaertn.) populations in Bangladesh. *Tropical Plant Research* 7(2): 452–459
2. Kabir S, **Kashem MA**, Rahman MA, Hasan MM, Khan MAA and Hossain MZ 2020. Variation in leaf traits of *Lantana camara* L. in relation to its adaptation with the soil condition of Bangladesh. *Journal of Advanced Plant Sciences* 10(2): 37- 44
3. Hossain MZ, Hussaini SM, **Kashem MA**, Hasan MM and Khan MAA 2020. Litter quality and nitrogen mineralization of dominant tree species in the Ratargul swamp forests, Bangladesh. *International Journal of Ecology and Environmental Sciences* 46 (2): 195-201
4. Kabir S, **Kashem MA**, Hossain MZ 2020. Genetic diversity and introductions patterns of *Lantana camara* L. in the territory of Bangladesh as revealed by microsatellite profiles. *Species* 21(67): 140-149
5. Satu SI, Nahar K, **Kashem MA** and Ahmad S 2019. Understanding urban tourism in Balda garden and Bahadur Shah Park of Dhaka city (Bangladesh) by studying the interactions between visitors and plants. *Mol.* 19: 96-104
6. Ferdous J, **Kashem MA**, Ahmed A and Hossain MZ 2018. Effects of salinity on the soil bacteria associated with the rhizosphere of lentil. *Mol.* 18: 9-18
7. Hossain MZ, Hasan MM and **Kashem MA** 2018. Intervarietal variation in salt tolerance of lentil (*Lens culinharis* Medik.) in pot experiments. *Bangladesh J Botany* 47(3): 405-412
8. Satu SI, **Kashem MA** and Hossain MZ 2017. The extent of soil salinity in some selected areas of Bangladesh and the growth responses of lentil (*Lens culinaris* Medik. var BARI masur 4) to salt stress. In: *Advances in Environmental Research*, (Editor: Justin A. Daniels), 60: 161-179
9. Hossain MZ, Khan MAA, **Kashem MA**, Hoque S. 2016. Plant community composition in relation to soil physico-chemical properties of the Ratargul swamp forest, Bangladesh. *The Dhaka Univ. J. Biol. Sci.* 25(1): 1-8
10. **Kashem MA**, Ahmed A, Hoque S and Hossain MZ. 2015. Effects of land-use change on the properties of top soil of deciduous Sal forest in Bangladesh. *Journal of Mountain Area Research* 1: 5-12

### **Award and Achievements**

1. Dean's Award 2014 (Faculty of Biological Sciences, University of Dhaka)
2. National Science and Technology (NST) Fellowship 2014, Ministry of Science and Technology, Government of People's Republic of Bangladesh
3. EBL-DUAA (Eastern Bank Limited & Dhaka University Alumni Association) Scholarship 2010-11 and 2011-12.
4. Board Scholarship 2015 for outstanding performance in B.S. (Honours).

## **Seminars**

1. Seminar lecture entitled “Canola (*Brassica napus*) Molecular Breeding-Research at University of Alberta, Canada”, delivered by Dr. Habibur Rahman, University of Alberta, Canada, organized by Chromosome Research Centre, University of Dhaka. Dated: 20 July 2016.
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. Hamwiah 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.

## **Conferences**

1. 7<sup>th</sup> International Plant Tissue Culture and Biotechnology Conference, organized by Bangladesh Association for Plant Tissue Culture & Biotechnology (BAPTC&B), Department of Botany, University of Dhaka, Bangladesh, 2014 (March).
2. 6<sup>th</sup> International Botanical Conference, Organized by Bangladesh Botanical Society, Theme: “Role of Botanist in Global Climate Change”, 6-7 December, 2014, Department of Botany, University of Dhaka, Bangladesh.
3. “Effects of land-use changes on the soil properties of deciduous Sal forest in Bangladesh” presented in the 23<sup>rd</sup> Bangladesh Science Conference, 17-18 October 2015, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh
4. 8<sup>th</sup> International Plant Tissue Culture and Biotechnology Conference, organized by Bangladesh Association for Plant Tissue Culture & Biotechnology (BAPTC&B), Department of Botany, University of Dhaka, Dhaka, Bangladesh. December 3-5, 2016.
5. 7<sup>th</sup> International Botanical Conference themed on “Plant Diversity – Food security and environmental management” organized by Bangladesh Botanical Society, Department of Botany, University of Dhaka, Dhaka, Bangladesh. February 3-4, 2018.

## **Professional Membership**

1. **Member**, Bangladesh Botanical Society (BBS).
2. **Life member**, Dhaka University Botany Alumni Association (DUBAA).
3. **Life member**, Bangladesh Ecological Society

## **Languages proficiency**

- Bangla (mother tongue)
- English (fluent)

## **Personal information**

Born on January 1, 1991 in Patuakhali, Barishal, Bangladesh.