

# CURRICULUM VITAE

## **Dr. Mohammad Saiful Islam**

Professor

Department of Genetics and Plant Breeding

Sher-e-Bangla Agricultural University

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## **1. PERSONAL INFORMATION**

Father's Name : Late Mohammad Abdul Khalek Molla

Mother's Name : Monuja Begum

Date of birth : March 31, 1975

Nationality : Bangladeshi

Marital status : Married

Permanent Address : Village: Ichapura,  
Union: Dados Gram  
Post Office: Nasir Court  
Police Station: Hazigonj  
District: Chandpur

Residential Address : Professor Tower  
House# 19, Flat-7A,  
Road# 12, Block-D  
Chandrima Model Town  
Mohammadpur  
Dhaka-1207

## 2. EDUCATIONAL BACKGROUND

Name of Degrees	University/ College	Subject	Country	Class	Marks obtained	Year of Graduation
Post Doc.	Kangwon National University	Genetic Engineering	South Korea	-	-	2010
Ph. D.	Kangwon National University	Plant Molecular Biotechnology	South Korea	First class (Grade-A+)	99.09%	2010
M.S	Bangladesh Agricultural University	Genetics and Plant Breeding	Bangladesh	First class	74.44%	2002
B.Sc. Ag. (Hons.)	Bangladesh Agricultural University	Agriculture	Bangladesh	First class	62.22%	1996
H.S.C	Dhaka Board	Science	Bangladesh	First Division	73.3%	1992
S.S.C	Cumilla Board	Science	Bangladesh	First Division	73.5%	1990

## 3. SERVICE EXPERIENCE

Name & Address of Organization	Period of Employment	Position	Type of work
Sher-e-Bangla Agricultural University	11, November, 2018 to till now (Grade-2)	<b>Professor</b>	- Teaching undergraduate students of B. Sc. Agricultural (Hons.) and M.S. students (both in theory & practical) and Ph.D. students
Sher-e-Bangla Agricultural University	11, November, 2014 to 10 November 2018 (Grade-3)	<b>Professor</b>	- Guided MS & Ph.D. students as a Research Supervisor and Co-supervisor.
Sher-e-Bangla Agricultural University	11, November, 2010 to 10 November, 2014	<b>Associate Professor</b>	- Also worked as a Principal Investigator of NST, UGC and SAURES project. Also worked as an Associate investigator of HEQEP project.
Sher-e-Bangla Agricultural University	26 <sup>th</sup> September, 2005 to 10, November, 2010.	<b>Assistant Professor</b>	
Sher-e-Bangla Agricultural University	1 <sup>st</sup> April 2003 to 25 <sup>th</sup> September, 2005.	<b>Lecturer</b>	
<b>Total Teaching Experience: 22 Years</b>			

Soil Resources Development Institute, Dhaka, Bangladesh	15 <sup>th</sup> June 2002 to 31 <sup>st</sup> March 2003	<b>Scientific Officer</b>	Analyzed plant, soil, water and fertilizers to ensure farmers advisory services. Fertilizer recommendation, conducted collaborative research, plan and design to solve different problems of soils.
Soybean Research Program, Department of Genetics and Plant Breeding, Bangladesh Agricultural University, Bangladesh.	January 2000 to December 2001	<b>Research Associate</b>	Data collection, Compilation and Analysis
<b>Total Research Experience: 2 Years</b>			

#### 4. ADMINISTRATIVE DUTIES

Position	Department	Duration
Chairman	Dept. of Genetics & Plant Breeding, Sher-e-Bangla Agricultural University	2014-2016
Assistant Provost	Sher-e-Bangla Hall, Sher-e-Bangla Agricultural University	2005-2006
Transport Co-ordinator	Sher-e-Bangla Agricultural University	05-09-2024-till now

#### 5. LANGUAGE PROFICIENCY

- Medium of study was in English both undergraduate and graduate levels.
- As a university professor, I deliver my lectures both undergraduate and graduate level in English. As our medium of instructions is in English.
- English Language proficiency: **Writing:** Excellent, **Reading:** Excellent, **Listening:** Very good, **Speaking:** Very good
- Bengali Language: Reading, Writing, Speaking and Listening are excellent as a mother language.
- Korean Language: Reading, Writing, Speaking and Listening are fair for communication
- Spanish and Japanese Language: Little

## 6. COMPUTER SKILL

- i) Operating Packages : Windows
- ii) Word processing : Microsoft Word, Power point
- iii) Spread sheet Analysis : Microsoft Excel
- iv) Statistical Packages : SPSS (Statistical Program for Social Science) 10.0 Version  
: SAS (Statistical Analysis System)  
: SPFAR (Statistical Package for Agricultural Research)  
: C Programming (Turbo C++)  
and also having knowledge on computer organization and Architecture.
- v) Molecular Analysis : BLAST, EBI, NCBI, Gel quantifying.

## 7. RESEARCH INTEREST

- i) Genetics
- ii) Stress Physiology
- iii) Plant Breeding
- iv) Biotechnology

## 8. PRACTICAL SKILLS:

### A) Practical Research Skills:

**Breeding:** Crossing program, Marker Assisted Selection and QTL

**Biotechnology:** Extensive experience in DNA, RNA and protein extraction from different plant tissues.

•**Gene amplification:** Isolation plant DNA and RNA, Preparation of cDNA, PCR, RT-PCR (Reverse Transcription), Real-time PCR (qPCR), RACE PCR, and primer design.

•**Molecular Cloning:** Regular cloning (plasmid isolation, digestion, purification, ligation, transformation of *E. coli*, Transformation into *Agrobacterium*), gateway cloning, TOPO cloning

•**Blotting techniques:** Southern, Northern and Western

•**Transgenic Research:** leaf-disc co-cultivation procedure, Shoot regeneration, root generation, acclimatization into soil, Simplified *Arabidopsis* transformation through flower dip methods, overexpression and antisense work

•**Culture Method:** Hydroponic culture in nutrition solution, cell culture, plant tissue culture in MS media, bacterial in LB.

•Experience using Agilent 2100 Bioanalyzer and Nanodrop Spectrophotometer to determine proteins and nucleic acids quality and quantity.

- Extensive experience in nucleic acids analysis by Southern-blot and Northern-blot.
- Small RNA detection by Northern-blot using non-radioactive methods
- Optimization and execution of Western-blot and SDS-Phase.
- Genome analysis through Flow cytometry,
- Performed micro-array analysis and Scanning Electron microscope (SEM) observation
- Extensive experience in plant tissue culture (tomato, *Nicotiana benthamiana*).
- Experience in Plant cells growth, maintenance and subculture.
- Transient protein expression in *Nicotiana benthamiana* and tomato leaves.
- Stable transformation of tomato, *Nicotiana benthamiana*, *Arabidopsis* mediated by *Agrobacterium tumefaciens* as well as Flower dip method.

Biochemical assay: HPLC, MTT assay, DPPH radical scavenging, Determination of total flavonoid, Total phenolics content. Total anti-oxidant activity, Anti cancer and anti-inflammatory assay.

#### **B) PERSONAL SKILLS:**

- Excellent teacher and passionate scientist, very hard worker, fast learner, enthusiastic, responsible, methodic, self-motivated and curious.
- Excellent analytical and communication skills for interpreting and presenting results.
- Capable of working both independently and with a team, in a collaborative environment.
- Experience supervising and training technicians both masters as well as undergraduate students.
- Experience as laboratory manager.
- Excellent computer skills: Microsoft Word, Excel, Power Point, Adobe Photoshop (photo edition), SPSS, Vector NTI, and Integrative Bioinformatics Databases like NCBI. EBI, Gene Bee Molecular Server.

#### **9. PRACTICAL RESEARCH INTEREST:**

Genetic transformation, different hardcore molecular techniques, gene regulation of plant growth and development, plant hormone regulates plant development, environmental and stress physiology, molecular mechanism of gene expression, molecular genetics, genetic mapping and identifying QTLs for various morphological characters.

#### **Short description of research and activities in the area of Plant Molecular Physiology:**

Since 2000 I have started working on the effects of abiotic stresses on a number of commercial crops and other economically important plants for establishing concepts, understanding the mechanism of stress tolerance and its alleviation by specific means. I made transgenic plant and performed functional analysis both phenotype and functional analysis.

## 10. ACADEMIC AWARDS/SCHOLARSHIPS

### Scholarship received:

**2007–2010:** Obtained Doctoral Fellowship, Brain Korea-21 Scholarship and BEST-KNU (Bring Excellent Student to Kangwon National University) Scholarship, South Korea

**2000–2002:** Soybean Research Program, Department of Genetics and Plant Breeding, Bangladesh Agricultural University, Mymensingh

1992-1996: Obtained Merit Scholarship in B. Sc. Ag. (Hons.) (From First year to Final year)

**1993–1998:** Obtained Graduate Merit Student Scholarship, Ministry of Education, Bangladesh

**1990–1992:** Obtained Intermediate level. Merit Scholarship. Comilla Board, Bangladesh

## 11. RESEARCH EXPERIENCE

### **A) As an M.S. Student:**

Conducted M.S. research, thesis entitled “Genotype- environment interaction on growth components and seed yield in Soybean (*Glycine max* L.). MS Thesis. Department of Genetics and Plant Breeding. Bangladesh Agricultural University. Mymensingh, Bangladesh.

### **B) As a Ph.D. Scholar:**

Conducted Ph.D. research, thesis entitled “Molecular Cloning and Characterization of Cell Cycle and Abiotic Stresses-Related Genes in Tomato (*Lycopersicon esculentum* L.)” under the supervision of Myeong Hyeong Wang, Plant Molecular Biotechnology, School of Biotechnology, Kangwon National University, South Korea,

### **C) As a principal investigator (PI) and a Co- investigator (Co-PI) of research project:**

#### Research Project Completed

Title of the project/research activity	Donar/ Sponsor	Position in project	Year	
			From	To
Selection of salt tolerant garlic ( <i>Allium sativum</i> L.) genotypes based on morpho-physiological dynamics for food safety.	NST, Bangladesh	Principal Investigator	2023	2024
Identification of drought tolerance genotypes of Garlic ( <i>Allium sativum</i> L.) genotypes based on growth parameters and morpho-physiogenenic traits.	SAURES, Bangladesh	Principal Investigator	2023	2024
Drought tolerance mechanisms in Lady’s Finger ( <i>Abelmoschus esculentus</i> L.)	NST, Bangladesh	Principal Investigator	2022	2023

genotypes based on morpho-physiological dynamics.				
Selection of salt tolerant okra ( <i>Abelmoschus esculentus</i> L.) genotypes based on morphophysiological traits for saline areas.	SAURES, Bangladesh	Principal Investigator	2022	2023
Drought tolerance screening of Chilli ( <i>Capsicum spp.</i> ) genotypes based on morpho-physiological dynamics	UGC, Bangladesh	Principal Investigator	<b>2021</b>	<b>2022</b>
Screening of Onion ( <i>Allium cepa</i> L.) genotypes for drought tolerance using morpho-physiological and yield contrasting indices.	SAURES, Bangladesh	Principal Investigator	2021	2022
Morpho-physiological mechanism of salinity tolerance in chili ( <i>Capsicum Annumn</i> L.) genotypes towards enhanced food safety	NST, Bangladesh	Principal Investigator	<b>2021</b>	<b>2022</b>
Effects of physiological traits and yield components of wheat dynamics under salt stress	SAURES, Bangladesh	Principal Investigator	2020	2021
Screening of salt tolerance potato genotypes under different salinity levels for saline areas of Bangladesh	NST, Bangladesh	Principal Investigator	2020	2021
Effects of physiological traits and yield components of maize hybrids dynamics under drought stress for food security of Bangladesh	SAURES, Bangladesh	Principal Investigator	2019	2020
Development of wheat genotypes for drought tolerance using combination of physiological and biochemical markers for food security and climate change	NST, Bangladesh	Principal Investigator	2017	2018
<i>In vitro</i> screening of salt tolerant onion ( <i>Allium sp</i> ) genotypes based on morphophysiological and biochemical marker for food safety	UGC, Bangladesh	Principal Investigator	2016	2017

Evaluation of elite maize hybrids genotype based on morphophysiological and biochemical marker for food security	NST, Bangladesh	Principal Investigator	2016	2017
Development of germplasm bank and seed museum for the improvement of research capabilities for postgraduate studies in the Department of Genetics and Plant breeding, SAU	HEQEP, UGC, Bangladesh	Member, Sub Project Management Team	2014	2016
Improvement of teaching–learning quality of undergraduate and post graduate studies of the faculty of agriculture (CP:2502)	HEQEP, UGC, Bangladesh	Associate Sub Project Manager	2012	2014
Evaluation of new plant type (NPT) advanced lines of rice for amon seasons as high yielding varieties	NATP, BARC, Bangladesh	Co-investigator	2011	2014
<i>In vitro</i> screening of salinity tolerant genotypes for further gene expression analysis in brinjal	SAURES, Bangladesh	Principal Investigator	2012	2013

#### D) Other Research Project Outcome:

1) Duration : Presently

Position : Research Supervisor of MS and Ph.D students and conducting various research project and publishing manuscript

2) Duration 2010-2011

Position Post. Doc

Project **Expression patterns of an abiotic stress-inducible ethylene responsive factor-4 Gene, *LeERF4*, in tomato.** In this project transgenic tomato plants were made with stress-inducible transcription factor *Lycopersicum esculentum* ethylene Responsive factor-4 (*LeERF-4*) protein gene from *Lycopersicum esculentum* and a signal transduction pathway component gene for tolerance against different abiotic stresses like, high temperature, drought, cold, high salinity and ABA and found positive result. This work was performed under the supervision of Professor Myeong Hyeon Wang,

Department of Plant Biotechnology, Kangwon National University, South Korea.

- 3) Duration : 2007 to 2009  
Position : Ph.D Fellow  
Project : **Molecular Cloning and Characterization of Cell Cycle and Abiotic Stresses-Related Genes in Tomato (*Lycopersicon esculentum* L.)**. In this project transgenic tomato plants were made with stress-inducible transcription factor Dehydrin Responsive Element Binding (DREB's) protein gene from *Lycopersicon esculentum* and a signal transduction pathway component gene for tolerance against different abiotic stresses like, high temperature, cold, drought and high salinity and found positive result. This work was performed under the supervision of Professor Myeong Hyeon Wang, Department of Biotechnology, Kangwon National University, South Korea.
- 4) Duration : 2008 to 2009  
Position : Researcher  
Project : **Role of Bax inhibitor-1 (*LeBI-1*) gene in tomato treated with various abiotic and oxidative stresses**. Transgenic plants showed tolerance against high temperature and drought. This work was performed under the supervision of Professor Myeong Hyeon Wang, Department of Biotechnology, Kangwon National University, South Korea.
- 5) Duration : June 2002 to 2003  
Position : **Scientific Officer**  
Project : Under the Ministry of Agriculture, Bangladesh Secretariat, Soil Resources Development Institute, Dhaka, Bangladesh. As a scientific officer, analyzed plant, soil, water and fertilizers to ensure farmers advisory services. Fertilizer recommendation, conducted collaborative research, plan and design to solve different problems of soils.
- 6). Duration : July 2000 to June 2002  
Position : M.S. Student  
Project : **Genotype- environment interaction on growth components and seed yield in Soybean (*Glycine max* L.)**. This work was performed under the

supervision of Prof. Dr. Md. Ali Newaz in the Dept. of Genetics and Plant Breeding of Bangladesh Agricultural University, Mymensingh.

## 12. STUDENT SUPERVISED

### A) MS Student Supervised

#### i) As a Supervisor

1. Selection of Onion (*Allium cepa* L.) genotypes for drought tolerance using morpho-physiological and yield contrasting indices. (June 2022): By **Md. Mahmudul Hasan**, Reg No. 20-11114
2. Effect of salt stress on morpho-physiological traits of Okra genotypes (*Abelmoschus esculentus* L.). (December 2022): By **Fatematuz Zohra**, Reg. No. 16-07161
3. Selection of elite soybean (*Glycine max* L. Merrill) genotypes based on morpho-agronomic traits. (June 2020): By **Md. Kamrul Hasan**, Reg. No. 13-05407
4. Variability, characters association and path co-efficient analysis of yield and yield contributing traits in Garlic (*Allium sativum* L.). (June 2018): By **Ahmed Shahriar Anik** Reg. No. 11-04609
5. Screening of wheat (*Triticum aestivum* L.) genotypes for drought tolerance using combination of morphological and biochemical traits. (June 2018): By **Atikur Rahman**, Reg. No. 12-05032
6. Character association and path analysis based on morphological traits in onion (*Allium cepa* L.). (June 2018) By **Md..Mashrur Hossain Rifat**, Reg. No. 11-04459
7. Character association and diversity analysis of Okra (*Abelmoschus esculentus* L. Moench). (June 2017): By **Khalid Syfulla**, Reg. No. 10-03916
8. Evaluation of hybrid maize varieties based on morphological traits. (June 2017): By **Nusrat Binta Atia**, Rg. No. 11-04543
9. Screening of potato (*Solanum tuberosum* L.) varieties against salinity stress (June 2021): By **Mst. Nusrat Jahan**, Reg No. 19-10034
10. Evaluation of Onion (*Allium cepa* L.) genotypes based on morphological traits. (December 2016): By **Sabina Yesmin**, Reg. No. 15-06925
11. Evaluation of yield and yield contributing characters of twenty genotypes of soybean (*Glycine max* L. Merrill). (June 2016): By **Nazmul Alamin Khan**, Reg. No. 10-03909
12. Evaluation of Pumpkin (*Cucurbita moschata* Duchesne ex poir) genotypes based on phenotypic traits. (June 2016): By **Md. Abdullah Al Masud**, Reg. No. 10-03944

13. Character association and diversity analysis for yield and yield contributing characters in field Pea (*Pisum sativum* L.). (June 2016): By **Md. Arifuzzaman**, Reg.No. 10-03918
14. Genetics diversity of Black Gram (*Vigna mungo* L.). (June 2016): By **Sumana Paul**, Reg.no. 10-04191
15. Character association and genetic diversity of Potato (*Solanum tuberosum* L.) (June 2015): By **Md. Habibur Rahman**, Reg. No. 09-03622
16. Multivariate analysis and Character association of sesame (*Sesamum indicum* L.). (June 2015): By **Farhana Yeasmin**, Reg. no. 08-02920
17. Genotypes -environment interaction of seed yield and yield contributing characters in chilli (*Capsicum frutescens* L.). (December 2014): By **Abdullah al Noman**, Reg. No. 08-02996
18. Genotype x Environment interaction in yield contributing characters of Tomato (*Solanum lycopersicum* L.). (June 2014): By **Md. Rejaul Islam**, Reg. No. 07-2395
19. Performance of Brinjal genotypes (*Solanum melongena* L.) under different growth conditions (June 2014): By **Md Masud Rana**, Reg.No. 08-02895
20. Evaluation of Brinjal genotypes (*Solanum melongena* L.) under abiotic stresses. (June 2014): By **Asma Ul Husna**, Reg. No. 07-02256
21. Characterization and diversity analysis of Tomato (*Solanum lycopersicum* L.) (December 2012): By **Md. Rafiquel Islam**, Reg. No. 06-02076
22. Plant biodiversity at Ajmiriganj haor homesteads of Bangladesh. (December 2012) By **Maksudul Haque**, Reg. No. 06-02061

**ii) As a research Co-supervisor of M. S. Students:**

1. Analysis of genetic variability and character association in F<sub>2</sub> segregation population of tomato (*Solanum Lycopersicum* L.). (June 2022): By **Afsana Hossain**, Reg. No. 15-06840 (Supervisor: Dr. Naheed Zeba, SAU).
2. Selection of F<sub>1</sub> populations based on genetic variability of rapeseed (*Brassica rapa* L.) (June 2021): By **Mst keara Yeasmin**, Reg. No. 19-10080 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU).
3. Genetic diversity analysis of green Chili (*Capsicum frutescens* L.). (June 2021): By **Ismat Ara Ema**, Reg. No. 14-06121. (Supervisor: Dr. Md. Sarowar Hossain, SAU).

4. Variability of self-life and some quality traits of Tomatillo fruits (*Physalis ixocarpa*. Brot.) estimated from F<sub>2</sub> Generation. (December 2020): By **Md. Mosabbirul Islam**, Reg. No. 18-09247 (Supervisor: Dr. Naheed Zeba, SAU).
5. Analysis of genetic variability and character association of yield and its contributing characters of F<sub>7</sub> population in *Brassica napus* (L.). (December 2020): By **Sayma Sayed Nishu**, Reg. No. 18-09237 (Supervisor: Dr. Firoz Mahmud, SAU).
6. Screening of Chilli (*capsicum spp.*) genotypes based on agromorphogenic and physiological traits against drought. (December 2020): By **Md. Mujahidul Islam**, Reg. No. 18-09 242 (Supervisor: Dr. Naheed Zeba, SAU).
7. Characterization of some advanced lines of Aman Rice (*Oryza sativa* L.) for release as variety. (June 2018). By **Md. Kanob Hasnat**. Reg. No. 12-04775. (Supervisor: Dr. Md. Sarowar Hossain, SAU).
8. Interaction effect of genotype and salinity levels on agromorphogenic, physiological and nutritional traits of Tomatillo (*Physalis ixocarpa*. Brot./ *P. Philadelphica* Lam) (June 2018): By **Nabila Narzis**, Reg. No. 12-04926 (Supervisor: Dr. Naheed Zeba, SAU).
9. Genetic variation in F<sub>7</sub> generation of *Brassicad. napus* L. (June 2016): By **Sanzida Sultana**, Reg. No.10-03898 (Supervisor: Dr. Md. Sarowar Hossain, SAU).
10. Genetic divergence and path analysis in Mungbean (*Vigna radiata*). (December 2016). By **S. M. Saieedur Rahman**. Reg. No. 10-03902 (Supervisor: Dr. Md. Sarowar Hossain, SAU).
11. Genetic diversity analysis of Chilli (*Capsicum spp.*). (June 2016): By **Deen Mohammad Deepo**, Reg. No. 08-02971 (Supervisor: Dr. Naheed Zeba, SAU).
12. Genetic diversity of twenty germplasm of Radish (*Raphanus sativus* L.). (June 2016): By **Md. Abdulla-Al-Noman**. Reg. No. 15-06938 (Supervisor: Dr. Md. Sarowar Hossain, SAU).
13. Selection of promising lines based on character association in *Brassica rapa* L. (June 2016): By **Nargis Akter**, Reg. No. 10-03821 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU)
14. Multivariate analysis of chilli (*Capsicum spp.*) genotypes based on yield and yield contributing traits. (December 2016): By **Anup Halder**, Reg. No. 15-06911 (Supervisor Dr. Naheed Zeba, SAU).
15. Characterization of F<sub>6</sub> Lines of Aus rice (*Oryza sativa*). (December 2016): By **Md. Humaun Kabir Lezon**, Reg. No. 15-06902 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU).

16. Genetic variability and character association in BC<sub>1</sub> F<sub>6</sub> population of *Brassica napus* (L.). (June 2017) by **Farhana Afrin**, Reg. No. 11-04469 (Supervisor: Dr. Firoz Mahmud, SAU).
17. Genetic of yield and quality traits in Tomato (*Solanum lycopersicum* L.). (June 2017): By **Muhammad Muktader Rashid Bhuiyan** (Supervisor: Dr. Naheed Zeba, SAU).
18. Variability in advanced lines of *Brassica rapa* obtained through inter-varietal crosses. (December 2013): By **Tanushree Halder**, Reg. No. 07-02361 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU)
19. Genetic diversity in yield contributing and nutritional traits of Tomato (*Solanum lycopersicum* L.). (December 2014): By **Takia Tanzina Akhter Bhuiyan**, Reg. No. 07-2201 (Supervisor: Dr. Naheed Zeba, SAU).
20. The effect of salinity on growth and accumulation of proline in calli of *capsicum spp.* Growth *in vitro*). (December 2014): By **Md. Rayhanul Islam**, Reg. No. 08-02733 (Supervisor: Dr. Naheed Zeba, SAU).
21. Impact of polyethylene Glycol induced water stress on Calli growth and accumulation of proline in *capsicum spp.* (December, 2014): By **Mohammad Mahabub Alam Laylin**, Reg. No. 08-02833 (Supervisor: Dr. Naheed Zeba, SAU)
22. Genetic diversity and character association in yield and yield contributing traits of Pumpkin (*Cucurbita moschata* Duchesne ex Poir.). (December 2014): By **Samsun Nahar (Oyshi)**, Reg. No. 09-03596 (Supervisor: Dr. Md. Sarowar Hossain, SAU).
23. Genetic diversity analysis in Soybean (*Glycine max* L. Merr). (June 2015): By **Anik Sarker**, Reg. No. 08-02956 (Supervisor: Dr. Naheed Zeba, SAU).
24. Characterization of thirty rice landraces. (June 2015): By **Arif Hossain**, Reg. No. 09-03519 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU).
25. Multivariate analysis of chilli (*Capsicum frutescens* L.). (December 2015): By **G. M. Runa Laila**, Reg. No. 09-03602 (Supervisor: Dr. Md. Abdur Rahim, SAU).
26. Diversity analysis among F<sub>6</sub> generation of rice (*oryza sativa* L.). (June 2015): By **Md. Zillur Rahman**. Reg. No. 07-2375 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU).
27. Selection of salt tolerant genotypes based on agromorphogenic, physiological and nutritional traits of Tomato (*Solanum lycopersicum* L.). (December 2016): By **Md. Ehsanul Haq**, Reg. No. 08-02821 (Supervisor: Dr. Naheed Zeba, SAU).

28. Genetic diversity in Rapeseed mustard (*Brassica rapa* L.) genotypes. (June 2014): By **Monika Sonom**, Reg. No.06-02059 (Supervisor: Dr. Md. Shahidur Rashid Bhuiyan, SAU).
29. Variability of yield attributes and quality traits in advanced lines of fine rice (*Oryza sativa*). (June 2013): By **Md. Atiqur Rahman**, Reg. No. 06-02010 (Supervisor: Dr. Md. Sarowar Hossain, SAU).
30. Genetic diversity analysis for physiological traits in Radis (*Raphanus sativus* L.). (December 2012): By **Md. Monirul Alam**, Reg. 11-4676 (Supervisor: Professor Abu Akbar Mia, SAU)

### 13. WORKSHOP ATTENDED

#### A) International:

1. Workshop on “**Global Biosafety Management Program**”, 21-23 January, 2013, Hyderabad, **India**
2. Workshop on “**3rd Botrytis Genome Workshop**” 25-27 September, 2008, Tenerife, Canary Islands, **Spain**.
3. Workshop on “**Go-global Food Safety**” 2009, 7<sup>th</sup> International Photochemicals Symposium , 27 -29 May, 2009, Daejeon Convention Centre, Daejeon, South Korea
4. Workshop on “International Symposium and Annual Meeting of the KSABC”. October 22-24, 2009, Jeju, **South Korea**.
5. Workshop on “**from the New Drug Development to Human Well-being**” organized by the Pharmaceuticals Society of Korea. April 30-may 3.2008. International convention centre, Jeju, **South Korea**.
6. Workshop on “**Spring Convention of the Korean Society for Applied Biological Chemistry**” 2009, **South Korea**.
7. Workshop on “**Accelerating Innovation in Pharmaceutical Science**” 7-8 May, 2009, Daejeon Convention Center. **South Korea**.
8. International symposium on “**Wellness foods, Science and innovation**” organized bt Korean Society of food science and technology. 18 -20 June, 2008, Kimdaejung convention centre, Gwangju, **South Korea**.

#### B) National

1. Bangladesh seed congress held on 11-13 February, 2023 at Bangabandu Internation Conference center (BICC), Dhaka jointly organized by Ministry of Agriculture and Bangladesh seed Association
2. Workshop on “Annual Research Review” held on 20-21 December, 2023 organized by SAURES, SAU, Dhaka

3. Workshop on “Problems and Remedies on Research and Technology Transfer of Horticultural Crops”, held on 26 September 2023 at BARC, Dhaka, organized by Bangladesh Agricultural Research Institute (BARI).
4. Workshop on “Advanced Biometrical Techniques on Crop Improvement”, held on 5-6 November 2019 at SAU, Organized by Genetics & Plant Breeding Department, SAU.
5. Inception Workshop on “Developing Agricultural climate Services Training Module”, held on 4 September 2019 at SAU, organized by Dept. of Agronomy, SAU.
6. The 11<sup>th</sup> Biennial conference: Plant Breeding to face Future Challenges” held on 26-27 October, 2019 at ACI center, Dhaka, organized by Plant Breeding and Genetics Society of Bangladesh,
7. Stakeholders workshop on Quality Assurance in Education at SAU, held on 27 September, 2018 at SAU, organized by Director, Institutional Quality Assurance Cell (IQAC), SAU.
8. Workshop on “SAU Ph.D. Ordinance and Its Implementation”, held on 8 July 2018 at SAU, organized by Director, Institutional Quality Assurance Cell (IQAC), SAU.
9. Workshop on “Checking and improvement of curriculum of B.Sc.Ag. (Hons.), held on 29.10.2017 At IQAC Office, Library Building, SAU, organized by Self-Assessment Committee, IQAC.
10. Workshop on “Curriculum development for Bachelor of Science in Agriculture (Hons.), SAU, held on 31.8.2016 at Conference room, Administrative Building, SAU, organized by IQAC.
11. Workshop on “National Policy Forum on the Use of Intellectual Property for Technological Capacity Building, Economic growth and Development, held on 25-26 October 2011 at Hotel Sonargoan, Dhaka, jointly organized WIPO and Bangladesh Government.

#### 14. TRAINING COURSE ATTENDED

<b>Name of Training Course</b>	<b>Period</b>	<b>Sponsoring Organization</b>
<b>In Country</b>		
iii. Curriculum development and teaching learning assessment	From December 17 to December 21, 2013	Higher Education Quality Enhancement Sub Project (HEQEP), UGC, World Bank, held at SAU
iv. Curriculum development & teaching learning assessment	From 3 March to 5 March, 2016	Higher Education Quality Enhancement Sub Project (HEQEP), UGC, World Bank, held at SAU

		Bank, held at SAU
v. Processing, Packaging, Storing, Handling of Equipment and Maintenance of Germplasm Bank & Seed Museum	From 27 June to 29 June, 2016	Higher Education Quality Enhancement Sub Project (HEQEP), CP: 3646, UGC, World Bank, held at SAU
vi. Training on “Research methods, statistical analysis and scientific paper writing	13.07.2017 (One day)	Institutional Quality Assurance Cell, SAU
vii. Training on “Development of B.Sc. (Agricultural Economics) and BBA (Agribusiness) Curriculum”	20.01.2018	Institutional Quality Assurance Cell, SAU
viii. Training on “Outcome Based Education and Using Rubrics for Assessment	24.04.2018 (One day)	Institutional Quality Assurance Cell, SAU
xi. Training on “Innovative Teaching Methodology”	05. 2018	Institutional Quality Assurance Cell, SAU

## 15. SEMINAR PARTICIPATED

### International:

1. Seminar on “**Global Biosafety Management Program**”, 21-23 January, 2013, Hyderabad, **India**
2. Seminar on “**3rd Botrytis Genome Workshop**” 25-27 September, 2008, Tenerife, Canary Islands, **Spain**.
3. Seminar on “**Go-global Food Safety**” 2009, 7<sup>th</sup> International Phytochemicals Symposium, 27 -29 May, 2009, Daejeon Convention Centre, Daejeon, South Korea
4. Seminar on “International Symposium and Annual Meeting of the KSABC”. October 22-24, 2009, Jeju, South Korea.
5. Seminar on “**from the New Drug Development to Human Well-being**” organized by the Pharmaceuticals Society of Korea. April 30 – May 3. 2008. International convention centre, Jeju, South Korea
6. Seminar on “**Spring Convention of the Korean Society for Applied Biological Chemistry**” 2009, South Korea
7. Seminar on “**Accelerating Innovation in Pharmaceutical Science**” 7-8 May, 2009, Daejeon Convention Center. South Korea.
8. International symposium on “**Wellness foods, Science and innovation**” organized by Korean Society of food science and technology. 18 -20 June, 2008, Kimdaejung convention centre, Gwangju, South Korea.

### **National:**

1. Seminar on “**The Genetics of Inheritance: Unraveling the Secrets of Mendelian traits**”, held on 20 July 2023, jointly organized by SAU & Plant Breeding and Genetics Society of Bangladesh.
2. Seminar on “**Food Safety in Meat Value Chain – Hunting for a Youth Food Safety Ambassador**”, held on 6 March 2023, jointly organized by SAU & FAO of The United Nations.
3. Seminar on “**Transgenic and Genome Editing Technology for Crop Improvement**”, held on 29 May 2023 at SAU, organized by Director, Institutional Quality Assurance Cell (IQAC), SAU.
4. Seminar on “**Quinoa: A nutrient -rich, Climate- Smart Dual-purpose new crop forgrains and greens production in Bangladesh**”, held on 11 December 2022 at SAU, Jointly organized by SAU and Plant Breeding and Genetics Society of Bangladesh.
5. Seminar on “**Identification of regulatory gene network for molecular breeding and genome editing to develop abiotic stress resilient crops: linkage basic to applied research**”, held on 11 December 2022 at SAU, jointly organized by SAU and Plant Breeding and Genetics Society of Bangladesh.
6. Seminar on “**Growing White Maize in Bangladesh: Generation of Production Technology**”, held on 14.03 2018 at SAU, organized by Prof. Dr. Md. Jafar Ullah, Co-coordinator of the Project, Dept. of Agronomy, SAU.
7. The 11<sup>th</sup> Biennale Conference on “**Plant Breeding to Face Future Challenges**”, held on 26-27 October 2019 at ACI Centre, Tejgon, Dhaka, organized by Plant Breeding and Genetics Society of Bangladesh.
8. Seminar on “**Bangladesh’s Policies and Practices towards Wildlife-Agriculture-Human Interface: Responsive Consumption and Production**”, held on 6.6.2016 at Auditorium, KIB complex, Farmgate, Dhaka, organized by KIB.
9. Seminar and workshop on “**BBA & MBA in Agribusiness Course Curricula**” held on 13.5.2016 at Faculty Seminar Room, Sheikh Kamal Faculty Bhaban, SAU, organized by Sub-project Manager, HEQEP Cp-3636.
10. Seminar on “**The Role of women in Agricultural Development of Bangladesh**”, held on 8.3.2016 at 3D Seminar Hall, KIB, organized by KIB.
11. Seminar on “**Molecular Cytogenetics in Plant Breeding**” held on 13.02.2016 at BARC Auditorium, organized by Plant Breeding and Genetics Society of Bangladesh.

12. Seminar on “**Neoteric model of rooftop gardening**”, held on 6.2.2016 at Conference room, Administrative Building, SAU.
13. Seminar on “**Visionary Talk on Plant Science**”, (Speech delivered by legendary Geneticist & Plant Breeder Prof. M.S. Swaminathan) held on 9.12.2015 at 3D seminar room, KIB Complex, organized by Plant Breeding and Genetics society of Bangladesh.
14. Seminar on **GM Foods: controversy; perceived effect on human health, environment and biodiversity**, held on 3 March, 2010 at SAU, organized by SAURES.
15. Seminar on **Biotechnology in Agriculture: Myths & Realities** held on August 24, 2005 at Dhaka, Bangladesh. Organized by The Embassy of the United States of America and The Bangladesh Agricultural Research Council, Dhaka, Bangladesh.
16. Fifth Annual Conference, **Plant Breeding and Genetic Society of Bangladesh**, held on May 25, 2000 at Bangladesh Agricultural Research Institute, Gazipur, Bangladesh.
17. Seminar on “**Development of variety of *Oleiferous Brassica* crop through Interspecific hybridization**” 31 August, 2006, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
18. Seminar on “**Qualitative Characteristics and Structural Contents of different Components of a Scientific Paper**” 26 February. 2004, Sher-e-Bangla Agricultural University, Bangladesh
19. **International** seminar on “**Harvesting the Benefit of Biotechnology**” 8-9 October 2004, Hotel Shonargon, Dhaka
20. Seminar on “**Cultivation of Rice Using Clonal Tillers**” 6 May 2004, Sher-e-Bangla Agricultural University, Dhaka
21. National seminar on “**Intellectual Property Right Issue in Agriculture**” 7 October, 2004, Sher-e-Bangla Agricultural University, Dhaka
22. Seminar on “**Vegetables IMP: Success stories in Bangladesh**”, 4 October 2004, Sher-e-Bangla Agricultural University, Dhaka
23. National seminar on “**Status of Traditional Rice in Bangladesh**”, 17 June 2004, Sher-e-Bangla Agricultural University, Dhaka
24. National seminar on “**The International Year of Rice 2004: Meeting the Challenge of Tomorrow**”, 21 June 2004, Bangladesh Agricultural Research Council, Dhaka
25. Conference on “**International Plant Tissue Culture and Biotechnology**” held in Dhaka, Bangladesh from 4-6 December 2004
26. Conference on “**Plant Breeding for Poverty Alleviation**” held in Bangladesh Agricultural University, Mymensingh on 19 March 2004

27. Seminar on “**Transgenic Crops for Human Welfare**” 25 March 2003, Sher-e-Bangla Agricultural University, Dhaka
28. Seminar on “**Recent Advanced in Biotechnology**” 10 June 2003, Sher-e-Bangla Agricultural University, Dhaka
29. Seminar on “**Molecular Data Analysis for Population Genetics**” held in Bangladesh Agricultural University, Mymensingh on 27 February 2003.
30. Seminar on “**Rice Biotechnology**” held in Bangladesh Agricultural University, Mymensingh on 21 September 2003
31. Seminar on “**Genetic Engineering in Pulse Crops**” held in Bangladesh Agricultural University, Mymensingh on 31 March 2003
32. Seminar on “**Safety Evaluation of GMOs as Foods and Feeds**” held in Bangladesh Agricultural University, Mymensingh on 26 June 2003
33. Seminar on “**Use and misuse of organic wastes**” 5 September 2000, Bangladesh Agricultural Research Institute, Gazipur.

#### **16. TRAININGS RECEIVED:**

1. “**Safety Use of Radiation and Laboratory Equipment’s**” February, 20-24, 2008 Kangwon National University Central Laboratory. Chuncheon, Kangwon Do, South Korea.
2. “**Practical Use of Different Molecular Tools**” April 1-5, 2007, Soul National University, South Korea.
3. “**Teaching Management and Learning Processes**” 31 May to 1 June, 2003, Sher-e-Bangla Agricultural University, Dhaka
4. “**Training on Teaching**” 5 & 6 October 2004, British Council, Dhaka
5. “**Administration, Office Management and Communication**” 28 September to 10 October 2002, Graduate Training Institute, Bangladesh Agricultural University. Mymensingh
6. “**Training on Microsoft Office Management, Power Point, Adobe Photoshop**”, 1 April – 30 June, 2000, Tulip Computer Center, Mirpur -2, Dhaka
7. “**Training and Extension Field Trip**” One week, Saver Upazila, Dhaka Organized by: Sher-e-Bangla Agricultural University, Dhaka

## 17. SHORT VISITED ABROAD

- Visited to Hyderabad research centre from 20 to 25 January, 2013, **India**
- Visited to ICGEB from 3<sup>rd</sup> May to 15 May, 2012, **India**
- Visited to La Laguna University, 3<sup>rd</sup> Botrytis Genome Workshop” 25-27 September, 2008, Tenerife, Canary Islands, **Spain**
- Visited to Paris, from 28-30 September/2008, **France**
- Visited Seoul National University, Department of Molecular Genetics, from 22 to 25 August, 2008, **South Korea**
- Visited to Indian Agricultural Research Institute, from 2 to 15 April, 1998, **India**
- Visited to Department of Plant Physiology and Genetics, Agricultural Research Institute of Nepal, from 16 to 24 April, 1998, **Nepal**

## 18. MEMBER OF THE IMPORTANT BODIES

Sl. No.	Position	Role	Year
1	Member, Academic Council	Actively participated in the improvement of standards of curriculum, syllabus, teaching and research activities of Sher-e-Bangla Agricultural University	2010-till date
	Non-Government Teachers' Registration & Certification Authority (NTRCA) Secondary and Higher Education Division, Ministry of Education 18 <sup>th</sup> Teachers Registration Exam, 2024	Examiner, College Section	2024
2	Member, Development of Outcome Based Education Curriculum	Developed Outcome Based Education Curriculum for B.Sc.Ag (Hons.), M.S. and Ph.D. of Faculty of Agriculture, Sher-e-Bangla Agricultural University	2023
3	Member, Examination Committee	Compilation of marks, result preparation and publication, MS defense examination evaluation, Institute of Seed Technology,	2018

		Sher-e-Bangla Agricultural University	
4	Member, Syllabus Upgrading Committee	Revised the syllabus for the faculty of Animal Science and Veterinary Medicine of Sher-e-Bangla Agricultural University	2015
	Non-Government Teachers' Registration & Certification Authority (NTRCA) Secondary and Higher Education Division, Ministry of Education 12 <sup>th</sup> Teachers Registration Exam, 20217	Examiner, College Section	2017
5	Member, Development Course Curricula & Layout	Developed the Course Curricula & Layout for BBA and MBA for Faculty of Agribusiness Management	2013
6	Member, Recruitment & Up-gradation Ordinance	Prepared Recruitment & Up-gradation Ordinance of Sher-e-Bangla Agricultural University	2011
	Non-Government Teachers' Registration & Certification Authority (NTRCA) Secondary and Higher Education Division, Ministry of Education 9 <sup>th</sup> Teachers Registration Exam, 2012	Examiner, College Section	2012
7	Member, Examination Committee	Compilation of marks, result preparation and publication, MS defense examination evaluation, Dept. of Genetics and Plant Breeding, Sher-e-Bangla Agricultural University	2011
8	Member, Executive Committee of Faculty of Agriculture	Planning, implantation and monitoring the course curriculum of Faculty of Agriculture, Sher-e-Bangla Agricultural University	2010

## 19. MEMBERS OF PROFESSIONAL SOCIETY

Sl. No.	Position	Organization/Institute
1	Life member	Krishibid Institute, Bangladesh
2	Life member	Plant Breeding and Genetics Society of Bangladesh
3	Life member	Alumni, Kanwon National University (KNU), South Korea
4	Member	Chandpur Zila Somitee, Chandpur, Bangladesh
5	Organizing Secretary	Teachers Association of Sher-e-Bangla Agricultural University (2004-2005)
6	Member, Executive Committee	Teachers Association of Sher-e-Bangla Agricultural University (2005-2006)
7	Member, Executive Committee	Teachers Association of Sher-e-Bangla Agricultural University (2006-2007)
8	Member	Sher-e-Bangla Agricultural University Teacher's Association
9	Life member	Sher-e-Bangla Agricultural University Alumni Association
10	Life member	Old Boys Association of Nasirkote High School (OSAN)
11	Organizing Secretary	Old Boys Association of Nasirkote High School (OSAN) (2024-till now)
12	Member, Executive Committee	Old Boys Association of Nasirkote High School (OSAN) (2014-2017)
13	Member, Executive Committee	Old Boys Association of Nasirkote High School (OSAN) (2017-2024)
14	Member	Member of the Korean Society of Biotechnology
15	Member	Agronomy Society of Bangladesh
16	Member	The South Koean Alumni of Bangladesh
17	Member	Chandpur Krishibid Alumnai , Bangladesh
18	Vice President	Agriculturist Association of Bangladesh (ABB), SAU Chapter,
19	Member	Ziaur Rahman Foundation, Bangladesh
20	Member	Bangladesh Nationalist Party (BNP), Bangladesh
21	Member	Sommilit Pesajibi Porishad, Bangladesh
22	Member	Sada Dal, Sher-e-Bangla Agricultural University (SAU)

## 20. EDITORIAL ROLE

Sl. No.	Position	Journal
1	Member, Editorial Board	Biochemistry and Molecular Biology Report,
2	Member, Editorial Board	Plant Molecules,
3	Member, Editorial Board	Plant Cell Tissue and Organ Culture,
4	Member, Editorial Board	International Journal of Horticulture, Agriculture and Food Science
5	Member, Editorial Board	Plant Cell Tissue and Organ Culture,
6	Reviewer	African Journal of Biotechnology,
7	Reviewer	Australian Journal of Crop Science
8	Reviewer	Asian Journal of Advances in Agricultural Research
9	Reviewer	Plant cell biotechnology and molecular biology.
19	Reviewer	. Journal of . Multidisciplinary and Science
11	Reviewer	AAB Bioflux
12	Reviewer	Bangladesh Journal of Plant Breeding and Genetics Society
13	Reviewer	Int. Research Journal of Applied Life Science
14	Reviewer	Horticulture Environment and Biotechnology
15	Reviewer	Russian Journal of Plant Physiology.
16	Reviewer	Journal of Korean Furniture Society.
17	Reviewer	Korean Journal of Plant Research
18	Reviewer	Journal of Subtropic Agricultural Development
19	Reviewer	Journal of Agricultural Science and Technology
20	Reviewer	Journal of Agricultural Education and Technology
21	Reviewer	Bangladesh Journal of Progressive Science and Technology
22	Reviewer	Journal of Advances in Biology & Biotechnology
23	Reviewer	Asian Journal of Research in Biochemistry

## 21. PUBLISHED RESEARCH PAPERS

### PUBLICATIONS

(Please provide a complete list of publications in refereed International, regional as well as national journals):

1. F. T. Zohra, **M. S. Islam** K. M. Dewan, A. B. M. S. H. Pramanik (2024) Effect of salt stress on morpho-physiological traits of OKRA genotypes (*Abelmoschus esculentus* L.) (Submitted)
2. Md. Daraj Uddin Prodhan, Md. Sajjad Hossain, Mohammad Mahmudul Hasan, Md. Zahidur Rahaman, A.B.M. Shahadat Hossain Pramanik, **Mohammad Saiful Islam** (2024) Morpho-physiological response of salt-tolerant Chili (*Capsicum annuum* L.) genotypes under saline conditions. International Journal of Horticulture, Agriculture and Food Science (IJHAF). 8(3): 27-33 DOI: 10.22161/ijhaf.
3. Mst. Nusrat Jahan, **Mohammad Saiful Islam**, Roksana Aftab and Md Mahmudul Hasan. (2023). Screening of *solanum tuberosum* cultivars salt tolerances in vitro condition. Asian Journal of Advances in Agricultural Research. 22 (2): 33-40.
4. Ahmed Shahriar Anik, Khalid Syfullah, Md. Zonayet, Kamrun Nahar Sheuly, Debosree Karmokar, Kazi Md. Abu Sayeed and **Mohammad Saiful Islam** (2022) Variability, character association and path analysis of yield and yield contributing traits in Garlic (*Allium sativum* L). Plant cell biotechnology and molecular biology. 23(1&2):82-91.
5. M.N. Jomadder , K.M.K. Huda , M. Jony , **M.S. Islam** , M.S.A. Banu, M.H. Rashid1 and S. Parveen ( 2021). Genetic evaluation of Boro rice (*oryza sativa* L.) genotypes under irrigated and rainfed conditions. Bangladesh J. Agri. 44-46: 77-87. DOI: <https://doi.org/10.3329/bjagri.v46i1-6.59976>
6. Zakia Sultana, Nahid Ahmed, **Mohammad Saiful Islam**, Md. Abdur Rahim. (2020) Genetic variability and yield components of yard long bean (*Vigna unguiculata* var. sesquipedalis L.). Agronomski Glasnik 3: 107-122.
7. Atiqur Rahman , Abul Awlad Khan , and Mohammad Saiful Islam (2020). Screening of wheat genotypes for drought tolerance using a combination of morphological and biochemical traits. J. Multidiscip. Sci. 2(2), 8-18.
8. Rifat, M.M.H., Huda, K.M.K. & **Islam, M.S.** (2020). *In vitro* screening of salt tolerates genotypes based on morphological traits under different salinity levels in onion. J. Multidiscip. Sci. 2(2), 41-48.

9. Tanushree Halder, Mohammad. S. R. Bhuiyan, **Mohammad. S. Islam** and Joity Hossain (2016). Analysis of relationship between yield and some yield contributing characters in few advanced lines of rapeseed (*Brassica rapa*) by using correlation and path analysis. AAB Bioflux. 8(1):36-44.
10. A. A. Noman, M.S.R. Bhuiyan, **M.S. Islam** (2015). G x E interaction of yield and yield contributing characters in Chilli (*Capsicum frutescens* L.) using AMMI model. Bangladesh J. Pl. Breed. Genet. 28(2).
11. **M.S. Islam**, A. A. Noman, M. S. R. Bhuiyan (2014). Genotype–environment interaction and stability analysis in chilli (*Capsicum frutescens* L.). J. Sher-e-Bangla Agril. Univ 8(2):41-46.
12. T. Halder, M. S. R. Bhuiyan and M. S. Islam (2014). Variability and correlation study of some advanced line of *Brassica rapa*. Bangladesh J. Pl. Breed. Genet. 27(1): 25-36.
13. **M. S. Islam** and M. H. Wang (2014). Role of dehydration responsive element binding protein-1 in tomato treated with various abiotic stresses. J. Expt. Biosci. 5(1):61-68.
14. M. A. Mannan, M. M. Haque, and **M. S. Islam** (2014). Plant biodiversity in the hoar homesteads of Bangladesh. Int. Res. J. Appl. Life Sci. 2(5):10-19.
15. M. F. Islam, J. Rahman, **M. S. Islam**, and A. Akbar (2014). Genetic diversity of fruit development related traits of tomato. J. Expt. Biosci. 5(1):41-48.
16. M. M. Haque, **M. S. Islam**, J. Rahman and M. A. Mannan (2014). Study on haor homestead and its fruits diversity in Bangladesh. J. Expt. Biosci. 5(1):1-6.
17. **M. S. Islam** and M. H. Wang (2012). Expression patterns of an abiotic stress-inducible dehydration responsive element binding protein-2 (DREB2) gene in tomato. Bangladesh J. Pl. Breed. Genet. 25(1):1-9.
18. **M. S. Islam**, M. A. Siddiquee, A. A. Khan and M. H. Wang (2011). Expression patterns of an abiotic stress-inducible ethylene responsive factor-4 Gene, *LeERF4*, in tomato. J. Sher-e-Bangla Agril. Univ.5(1): 12-19.
19. **S. Islam**, M. M. Haque and M.A. Mannan (2011). Homestead fruit species diversity in the hoar area of Bangladesh. Bangladesh J. Pl. Breed. Genet. 24(1): 15-22.
20. **Islam M. S.** (2010). Molecular cloning and characterization of cell cycle and abiotic Stresses-related genes in tomato (*Lycopersicon esculentum* L.). Ph. D thesis, Department of Plant Molecular Biotechnology, Kangwon National University, South Korea

21. **Mohammad Saiful Islam** and Myeong-Hyeon Wang (2010). Expression patterns of an abiotic stress-inducible dehydrin gene, *LeDhnT14*, in tomato. Hort. Environ. Biotechnol. 51(6):556-561.
22. **Mohammad Saiful Islam**, Kazi Md. Kamrul Huda, Firoz Mahmud, Sufara Akhter Banu and Myeong-Hyeon Wang (2009). Regeneration and genetic transformation of tossa jute (*Corchorus olitorius*). Australian J. Crop Sci. 3(5): 287-293.
23. **M. S. Islam**, J. H. Hur and M. H. Wang (2008). The influences of abiotic stresses on expression of zinc finger protein gene in rice (*Oryza sativa* L.). Russian J. Plant Physiol. 56 (5): 965-701.
24. **Mohammad Saiful Islam** and Myeong Hyeon Wang (2009). Role of Bax inhibitor-1 (*LeBI-1*) gene in tomato treated with various abiotic and oxidative stresses. Hort. Env. Biotechnol. 50 (4): 352-357.
25. Bimol Kumar Ghimire, **Mohammad Saiful Islam** and Su kyoung Chun (2008). Conservation of biodiversity and forest resources in Nepal-degradation and threats. Korean Fur. Soc. J. 19(4): 300-306.
26. Md. Mizanur Rahman, Md. Razzab Ali, **Mohammad Saiful Islam** and Myeong-Hyeon Wang (2009). Evaluation of pheromone trap settings for managing brinjal shoot and fruit borer in brinjal. Korean J. Plant Res. 22(3): 220-226.
27. **Mohammad Saiful Islam** and Myeong-Hyeon Wang (2009). Expression of dehydration responsive element-binding protein-3 (DREB3) under different abiotic stresses in tomato. J. Biochem. Mol. Biol. 42(9): 611-616.
28. **Mohammad Saiful Islam**, Muhammad Ali Newaz, Md. Zahidul Islam, Seong-II Heo and Myeong-Hyeon Wang (2007). Genotypic and environment interaction and stability analysis for yield and yield contributing characters in Soybean. (*Glycine max* L.). Korean J. Plant. Res. 20 (6): 504-510.
29. **Mohammad Saiful Islam**, Md. Zahidul Islam, Sheik Ali Ahmed, Su Kyoung Chun, Song-Ho Chong and Jong In Kim (2007). The cause of deforestation and loss of genetic resources in Bangladesh. Korean Fur. Soc. J. 18(4):317-323.
30. **Islam M. S.**, M. A. Newaz and J. Rahman (2005). Genotypic-environment-growth stages interaction in Soybean. Progress. Agric. 16 (1):69-74.
31. Rahman J, **M. S. Islam**, M. A. Newaz and M. H. Kabir (2003). Genetic divergence analysis of Lablab bean (*Lablab purpureus* L.). J. Subtropic. Agril. Dev. 1(1): 6-9

32. **Islam M. S.**, M. A. Newaz, J. Rahman and N. Zeba (2005). Stability analysis on seed yield in Soybean (*Glycine max* L.). J. Agric. Sci. & Tech. 4(2):12-16.
33. **Islam M. S.** (2002). Genotype- environment interaction on growth components and seed yield in Soybean (*Glycine max* L.). MS Thesis. Department of Genetics and Plant Breeding. Bangladesh Agricultural University. Mymensingh, Bangladesh.
34. Rahman J. and M. A. Newaz, **M. S. Islam** (2002). Combining ability analysis on edible pod yield in F<sub>2</sub> diallel population of Lablab bean (*Lablab purpureus* L.). J. Agric. Educ. Technol. 5 (1&2):33-36.

**Thesis:**

- i). **Islam M. S.** (2010). Molecular cloning and characterization of cell cycle and abiotic Stresses-related genes in tomato (*Lycopersicon esculentum* L.). Ph. D thesis, Department of Plant Molecular Biotechnology, Kangwon National University, South Korea
- ii). **Islam M. S.** (2002). Genotype- environment interaction on growth components and seed yield in Soybean (*Glycine max* L.). MS Thesis. Department of Genetics and Plant Breeding. Bangladesh Agricultural University. Mymensingh, Bangladesh.

**22. PUBLISHED ABSTRACTS**

1. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Characterization of cyclin A1 gene in *Arabidopsis thaliana* from a *Lycopersicon esculentum*. “International Symposium and Annual Meeting of the KSABC”. October 22-24, 2009, Jeju, **South Korea**.
2. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Molecular characterization of dehydration responsive element binding protein (DREB1) under various abiotic stresses in tomato. “International Symposium and Annual Meeting of the KSABC”. October 22-24, 2009, Jeju, **South Korea**.
3. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Expression profiling of DREB2 type gene under different abiotic stresses from tomato (*Lycopersicon esculentum* L.). “The 64<sup>th</sup> Annual Meeting of the Korean Association of Biological Sciences” August 20-21, 2009. Daejeon University, **South Korea**.
4. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. The influences of abiotic stresses on expression of zinc finger protein gene in Rice (*Oryza sativa* L.). 3rd Botrytis Genome Workshop” 25-27 September, 2008, Tenerife, Canary Islands, **Spain**.
5. **Mohammad Saiful Islam**, and Myeong-Hyeon. Wang. Characterization of Bax inhibitor-1 (*LeBI-1*) gene in tomato treated with various abiotic and oxidative stresses. “Spring Convention Organized by the Korean Society for Applied Biological Chemistry” 24<sup>th</sup> April 2009, **South Korea**.

6. **Mohammad Saiful Islam**, and Myeong-Hyeon Wang. Role of dehydration responsive element-binding protein-3 (*DREB3*) under different abiotic stresses in Tomato (*Lycopersicon esculentum* L.). “The Spring International convention organized by Korean Society of Food Science and Biotechnology” 27<sup>th</sup> May, 2009, **South Korea**.
7. **Mohammad Saiful Islam**, and Myeong-Hyeon Wang. Influences of an Abiotic Stress-Inducible Dehydrin Gene, *LeDhnT-14* in Tomato (*Lycopersicon esculentum* L.). “The Spring International convention organized by Korean Society of Food Science and Biotechnology” 27<sup>th</sup> May, 2009, **South Korea**.
8. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Genotype-Environment Interactions on Growth Components and Seed Yield in Soybean (*Glycine max* L.). “World Soybean Research Conference VIII (WSRC VIII)” August 10-15, 2009, Beijing, **China**.
9. **Mohammad Saiful Islam**, Myeong-Hyeon Wang. Genetic Transformation of Tossa Jute (*Corchorus Olitorius* L) using *Agrobacterium tumefaciens* 7<sup>th</sup> International Potochemicals Symposium” 27 -29 May, 2009, Daejeon, **South Korea**
10. **Mohammad Saiful Islam (2024)** Selection of salt tolerant Garlic (*Allium sativum* L.) genotypes based on morpho-physiological dynamics for food safety, Ministry of science and technology
11. **Mohammad Saiful Islam (2023)** Drought tolerance mechanisms in Lady’s Finger (*Abelmoschus esculentus* L.) genotypes based on morpho-physiological dynamics., Ministry of science and technology
12. Md. Daraj Uddin Prodhan, Mohammad Saiful Islam, Md. Sajjad Hosain and Md. Zahidur Rahamn. Evaluation of salt tolerant chili (*Capsicum annuum* L.) genotypes based on morpho-physiological traits. 22-23 May, 2024 International Conference on Advanced Agricultural Research, Sylhet Agricultural University, Sylhet, Bangladesh

### **23. POSTER AND SEMINAR PRESENTATION**

1. Md. Daraj Uddin Prodhan, Mohammad Saiful Islam, Md. Sajjad Hosain and Md. Zahidur Rahamn. Evaluation of salt tolerant chili (*Capsicum annuum* L.) genotypes based on morpho-physiological traits. 22-23 May, 2024 International Conference on Advanced Agricultural Research, Sylhet Agricultural University, Sylhet, Bangladesh
2. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. The influences of abiotic stresses on expression of zinc finger protein gene in Rice (*Oryza sativa* L.). 3rd Botrytis Genome Workshop” 25-27 September, 2008, Tenerife, Canary Islands, **Spain**.
3. **Mohammad Saiful Islam**, and Myeong-Hyeon. Wang. Characterization of Bax inhibitor-1 (*LeBI-1*) gene in tomato treated with various abiotic and oxidative stresses. “Spring Convention Organized by the Korean Society for Applied Biological Chemistry” 24<sup>th</sup> April 2009, **South Korea**.

4. **Mohammad Saiful Islam**, and Myeong-Hyeon Wang. Role of dehydration responsive element-binding protein-3 (*DREB3*) under different abiotic stresses in Tomato (*Lycopersicum esculentum* L.). “The Spring International convention organized by Korean Society of Food Science and Biotechnology” 27<sup>th</sup> May, 2009, **South Korea**.
5. **Mohammad Saiful Islam**, and Myeong-Hyeon Wang. Influences of an Abiotic Stress-Inducible Dehydrin Gene, *LeDhnT-14* in Tomato (*Lycopersicum esculentum* L.). “The Spring International convention organized by Korean Society of Food Science and Biotechnology” 27<sup>th</sup> May, 2009, **South Korea**.
6. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Genotype-Environment Interactions on Growth Components and Seed Yield in Soybean (*Glycine max* L.). “World Soybean Research Conference VIII (WSRC VIII)” August 10-15, 2009, Beijing, **China**.
7. **Mohammad Saiful Islam**, Myeong-Hyeon Wang. Genetic Transformation of Tossa Jute (*Corchorus Olitorius* L) using *Agrobacterium tumefaciens* “7<sup>th</sup>International Potochemicals Symposium” 27 -29 May, 2009, Daejeon, **South Korea**
8. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Characterization of cyclin A1 gene in *Arabidopsis thaliana* from a *Lycopersicon esculentum*. “International Symposium and Annual Meeting of the KSABC”. October 22-24, 2009, Jeju, **South Korea**.
9. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Molecular characterization of dehydration responsive element binding protein (DREB1) under various abiotic stresses in tomato. “International Symposium and Annual Meeting of the KSABC”. October 22-24, 2009, Jeju, **South Korea**.
10. **Mohammad Saiful Islam** and Myeong-Hyeon Wang. Expression profiling of DREB2 type gene under different abiotic stresses from tomato (*Lycopersicon esculentum* L.). “The 64<sup>th</sup> Annual Meeting of the Korean Association of Biological Sciences” August 20-21, 2009. Daejon Universtiy, **South Korea**.