

## CV of M. A. Baque

**Full Name:** Dr. Md. Abdullahil Baque

**Designation:** Professor

**Faculty:** Agriculture

**Department:** Agronomy

**Organization:** Sher-e-Bangla Agricultural University,  
Dhaka-1207, Bangladesh



**Date of Birth:** 01 -02-1977

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**Permanent address:** S/O: Md. Abdul Kader Miah, Vill + Post: Khamar Garagram, Upazilla: Kishorgonj, District: Nilphamari, Bangladesh.

### Academic qualifications

#### **Ph.D. in Agriculture (Major in Horticulture)**

**Duration:** September 2007 to December 2010 from Chungbuk National University, Cheongju, South Korea, and secured **GPA 4.38 out of 4.50** on the basis of point 98.75/100.

#### **Master of Science (MS) in Agronomy**

**Duration:** Autumn/2001 to Summer/2003, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Salna, Gazipur 1703, Bangladesh.

Secured **CGPA 4.00 out of 4.00** (90 % and above marks), **1<sup>st</sup> class first**.

#### **Bachelor of Science in Agriculture (B.Sc.Ag.)**

**Duration:** 4 years from Bangladesh Agricultural University, Mymensingh. I have passed in 1997 (exam. held in 2000) and secured **first class**.

**Secondary School Certificate (SSC) and Higher Secondary Certificate (HSC):** I have completed SSC (10 years) in 1991 and HSC (2 years) in 1993 from Rajshahi Division, Bangladesh and secured **first division**.

**Title of the Ph.D Thesis:** Production of Biomass and Secondary Metabolites through Adventitious root cultures of *Morinda citrifolia* (Noni) Using Bioreactors.

**Title of the MS Thesis:** Potassium induced changes in the physiology of *Triticum aestivum* L. under water stress conditions.

**Job responsibilities:** Teaching 40%, Research 40% and Extension 20%.

**Teaching experience:** 21 years 07 Months.

May 2003 – September 2006	Lecturer
September 2006 – November 2010	Assistant Professor
From February 2011 to 22 Feb 2015	Associate Professor
From 23 February 2015 to till date	Professor

**Job experience: Post Doctoral Researcher** (Brain Korea Fellowship, BK 21) at Research Center for the Development of Advanced Horticultural Technology (HortTech), Chungbuk National University, Cheongju, South Korea, from January 2011 to February 2012.

**Collaboration:** I have collaboratively worked with Anti-aging Research Institute, BIO-FD&C Co., Ltd., 510 ho, Smart Valley A, Songdo, Incheon 406-840, Republic of Korea (From 2007-2012).

**Supervisor-ship:** Supervised 3 Ph.D students, 43 MS students and Co-supervised 3 Ph.D students and 44 MS students.

**Administrative experience:**

- a) **Chairman** (24 December 2022- till date), Department of Agronomy, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.
- b) **Assistant Hall-Provost**, Shirajudulla Hall (2005-2006), Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh.

**Constlant (Part-time):**

- a) **Nilsagor Seeds & Tissue Culture Ltd.**, Nisagor Group. 2014-2020. Seed Business.
- b) **Krishimart Ltd (2021-2024):** Seed Business.

**Responsibilities:**

1. Development of time demanding hybrid and inbred varieties of Maize, vegetable and rice
2. Product promotion, farmers and dealers meeting, market monitoring, feedback from farmers and dealers incorporate with Research and Development (R&D).
3. Quality control of products during production and routine monitoring of seed quality of processing center.
4. Development of storage facilities, ware house etc.

5. Development of relation with corporate partners, international business, NARS system, L/C procedure and searching of good quality varieties of different countries and their selection through R&D and regional trail.
6. Market analysis of different products of different companies and development of business plan, budgeting etc.
7. Overall close monitoring of business in relation to seed quality, production, research, business plan, budgeting, profit loss, customer satisfaction, sales and marketing and development of national and international relations.

**Evaluator and Examiner:** Bangladesh Public Service Commission (PSC), NTRC and UGC.

**Variety development:** Two hybrid maize variety now commercially used in Bangladesh.

1. SAU Hybrid Vutta 1(SAU339): Three-way cross-Year round (13 m.ton/ha)
2. SAU Hybrid Vutta 2 (SAU444): Single Cross-Early and mid (13.5 m.ton/ha)

**Research experience:** 24 years.

**Completed project:**

1. Induction of salt tolerance in Wheat through osmo and hormonal priming: role of H<sub>2</sub>O<sub>2</sub> and anti-oxidant enzymes. Funded by BAS-USDA
2. Evaluation of Herbicidal efficacy, residual activity and selectivity in transplanted and broadcast rice. Funded by RiceCo International (UPL), USA
3. Assessment of effective distribution models for agricultural inputs for the chars the selected northern district.
4. End-Line survey of profitability assessment of year round onion production, Wave Foundation, Funded by PKSF.
5. Mitigation of drought stress of wheat through organic manipulation. Ministry of Science and Technology (MoST), 2018.
6. Influence of Nitrogen and Sulphur on growth, yield and oil content of Sunflower. Ministry of Science and Technology (MoST), 2020.
7. Performance of Mapiquat on growth, yield and oil content of Sunflower. Ministry of Science and Technology (MoST), 2021.
8. Integrated nutrient management on growth, yield and oil content of Sunflower. Ministry of Science and Technology (MoST), 2022.
9. Influence of micro-nutrient on growth and yield and of Sunflower. Ministry of Science and Technology (MoST), 2024.

**Ongoing research works:** Induction of salt stress, drought stress tolerance capacity and dormancy induction in Rice, Mungbean and Soybean through Osmo, Chemicals, Hormonal and

Hydro priming. Water stress and salt stress management in wheat and rice and enhancement of P utilization efficiency in Wheat.

**Teaching areas** (Bachelor of Science in Agriculture, MS and Ph.D in Agronomy): Seed quality assurance, Seed enterprise, Crop Production Technology, Crop Physiology, Stress Physiology, Crop Modeling, Risk Management in Agriculture, Plant Water Relationship, Weed Science, Sustainable Agriculture, Dryland Agriculture and Water Shed Management, Management of Problem Soils, Biotechnological Improvement of Agronomic Crops, Sustainable Agriculture and Organic Farming, Plant Nutrition, Seed Science & Technology, Principle of Crop Production, Agrometrology, Fundamentals of Agronomy.

**Training workshop:** Crop physiology and climate change, BRAC-CDM, 22-27 June, 2013, Gazipur.

**Course curriculum development:** Environment and Risk management, arrangement by Technical Board of Bangladesh, Agargaong, Dhaka-1207.

**Activities in News and Electronic Media:** Expert comments and discussion on climate change adaptation, crop production problems and solutions, causes of yield reduction and strategies to minimization, advance crop production technologies etc.

**Award:** Selected as a best scientist (position 5 among the top listed scientist) among the Korean scientist in 2012 due to the publication of research article in the world topmost Biotechnology journal. Survey conducted by **Pohang University of Science and Technology**.

Title: **Baque MA**, Sang-Hyun Moh, Lee EJ, Zhong JJ, Paek KY. 2012. Production of Biomass and Useful compounds from Adventitious Roots of High-value Added Medicinal Plants using Bioreactor. **Biotechnology Advances (Impact factor 16). 30: 1255-1267.**

**Link:** [http://bric.postech.ac.kr/myboard/read.php?id=16021&Board=push\\_temp](http://bric.postech.ac.kr/myboard/read.php?id=16021&Board=push_temp)

**Publications: Total 76 (54 full length paper, 2 patents, 15 abstract and 5 books)**

## **Patents:**

1. Title of the invention is "**the method to increase biomass and bioactive compounds of adventitious roots of *Morinda spp.***". **Patent number:** 10-1176343, Release date: 2012-08-17, certified by **Commissioner, the Korean intellectual property office.**

2. **Patent Title:** “A Skin External Composition Containing Callus Extract Drived from *Eleutherococcus koreanum* Nakai” **Patent Certified by Commissioner, the Korean Intellectual Property Office, Patent Number: 10-1291460**, date: 24-09-2013

#### **List of Books: 05**

1. **Baque MA**, HN Murthy, KY Paek (2014) Adventitious Root Culture of *Morinda citrifolia* in bioreactors for the production of bioactive compounds. **Springer Dordrecht, Heidelberg New York, London**, ISBN 978-94-017-9223-3. pp. 168-185.
2. **Baque MA**, Kulsum U, Shiragi MHK (2012) Response of Blackgram (*Vigna mungo* L.) to Nitrogen Fertilization: Role of Nitrogen on canopy structure, light interception, leaf chlorophyll content, nutrient uptake and grain yield. LAMBERT Academic Publishing, **ISBN-13: 978-3-659-30507-8**.
3. **Baque MA**, Shiragi MHK (2012) Bioactive compound production by adventitious root culture of Noni: Induction mechanism and standardization of physic-chemical factors. LAMBERT Academic Publishing, **ISBN-13: 987-3-659-29774-8**.
4. **Baque MA**, Shiragi MHK, Zhiwei L (2012) Production of secondary metabolites from PLBs of *Dendrobium candidum*: The Standardization of Culture Condition for Efficient Induction of Secondary Metabolites. LAMBERT Academic Publishing, **ISBN-13: 978-3659293771**.
5. Shiragi MHK, **Baque MA (2012)** A useful tactic of banana virus eradication from infected plant: The Standardization of Meristem Culture for banana Virus Eradication. LAMBERT Academic Publishing, **ISBN-13: 978-3659200410**.

#### **Journal articles: 54**

##### **International Journals:**

1. **Baque MA**, Faijunnahar M, Habib MA, Motmainna M (2018). PEG Induced Germination, Seedling Growth and Water Relation Behavior of Wheat Genotypes under Salt Stress Condition. Universal Journal of Plant Science. 6(3): 21-31.
2. **Baque MA**, Rahman ML, Rahman MM, Hasan MM, Habib MA, Rahman M (2018). Quality Assesment of Pea (*Pisum sativum* L.) Seeds using the Controlled Deterioration Technique. Trends in Horticulture. 1: doi: 10.24294/th.v1i2.718.

3. Hasan MM, **Baque MA**, Habib MA, Yeasmin M, Hakim MA (2017). Screening of Salt Tolerance Capability of Wheat Genotypes under Salt Stress Condition. *Universal Journal of Agricultural Research*. 5(4): 235-249.
4. Faijunnahar M, **Baque MA**, Habib MA, Rahman MM, Rahman ML. (2017). Induction of Salt Tolerance: Optimization of Pre-Sowing Priming Time on the Germination, Seedling Growth and Water Relation Behavior of Wheat (*Triticum aestivum* L.) Genotypes. *World Journal of Agricultural Sciences*. **13** (6): 237-246. DOI: 10.5829/idosi.wjas.2017.237.246.
5. Faijunnahar M, **Baque MA**, Habib MA, Hossain HMM. (2017). Polyethylene Glycole (PEG) Induced Changes in Germination, Seedling Growth and Water Relation Behavior of Wheat (*Triticum aestivum* L.) Genotypes. *Universal Journal of Plant Science*. 5(4): 49-57.
6. Chowdhury MS, Motmainna M, Rahman MM, Habib MA, **Baque MA**. (2017). Yield response of wheat as affected by irrigation and potassium fertilizer. *J. Expt. Biosci*. 8(1):49 - 58.
7. Motmainna M, **Baque MA**, Rahman MM, Chowdhury MS, Maruf SA. (2017). Yield response of wheat to the application of lime and phosphorous. *J. Expt. Biosci*. 8(2):1-10.
8. Nahar M, Yeasmin M, **Baque MA**, Quamruzzaman M, Rahman A, Azad MJ, Biswas PK. (2016). Induction of Drought Tolerance: Optimization of Pre-Sowing Priming Time on the Germination Behavior of BARI Gom 27 (*Triticum aestivum* L.). *American-Eurasian J. Agric. & Environ. Sci*. 16(5): 1025-1029.
9. **Baque MA**, Nahar M, Yeasmin M, Quamruzzaman M, Rahman A, Azad MJ, Biswas PK. (2016). Germination Behavior of BARI Gom 27 (*Triticum aestivum* L.) as Influenced by PEG-Induced Drought Stress. *Middle-East Journal of Scientific Research*. 24(6): 1941-1948.
10. **Baque MA**, Nahar M, Yeasmin M, Quamruzzaman M, Rahman A, Azad MJ, Biswas PK. (2016). Germination Behavior of Wheat (*Triticum aestivum* L.) as Influenced by Polyethylene Glycol (PEG). *Universal Journal of Agricultural Research*. 4(3): 86-91.
11. Ahsan MR, Islam MZ, Rahman MM, **Baque MA**. (2016). Integrated Use of Phosphate Solubilizing Bacteria, Bradyrhizobium and P on Growth and Yield by Soybean. *Int. J. Bus. Soc. Sci. Res*. 5(1): 79-84.
12. Rahman MA, **Baque MA**, Rahman MM, Quamruzzaman M. (2016). Growth and Yield of Transplant Aman Rice as Affected by Different Levels of Urea Super Granules and Depth of Placement. *American-Eurasian J. Agric. & Environ. Sci*. **16** (6): 1103-1116. DOI: 10. 5829 / idosi. aejaes. 2016. 16. 6.12973.

13. Islam MM, Bashar MA, Akhter N, Afroj M, Rahman M, Rahman MM, **Baque MA**. (2016). Participatory Evaluation of Wheat Genotypes under Different Tillage Practice in Dinajpur, Bangladesh. *J. Biosci. Agric. Res.* 10(01): 866-870.
14. Amin MA, Bashar MA, Akhter N, Afroj M, Islam MZ, Rahman MM, **Baque MA**. (2016). Constraints Faced by the Farmers in IPM Practices in Rice Cultivation. *Journal of Science, Technology and Environment Informatics.* 04(01): 245-250.
15. Islam KA, Bashar MA, Akhter N, Mia MAT, Afroj M, Rahman MM, **Baque MA**. (2016). Diffusion of Agricultural Innovation through Opinion Leadership. *Int. J. Bus. Manag. Soc. Res.* 02(02): 125-131.
16. Islam MZ, Ahsan MR, Afroj M, Rahman MM, **Baque MA**. (2016). Participation of Rural Women in Goat Rearing. *Bangladesh Res. Pub. J.* 12(2): 117-126.
17. Adan MJ, **Baque MA**, Rahman MM, Islam MR, Jahan A. (2015). Formulation of *Trichoderma* Based Biopesticide for Controlling Damping off Pathogen of Eggplant Seedling. *Universal Journal of Agricultural Research.* 3(3): 106-113. DOI: 10.13189/ujar.2015.030305.
18. Rahman A, Baque MA , Rahman M, Quamruzzaman M. 2016. Growth and yield of transplanted Aman rice as affected by different levels of Urea Super Granules and depth of placement. *American-Eurasian J. Agric & Environ. Sci* 16(6): 1103-1116.
19. Roy TS, **Baque MA**, Chakraborty R, Haque MN, Suter P. 2015. Yield and Economic Return of seedling tuber derived from true potato seed as influenced by tuber size and plant spacing. *Universal Journal of Agricultural Research* 3(1): 23-30
20. **Baque MA**, Shiragi MHK, Moh SH, Lee EJ, Paek KY. 2013. Production of biomass and bioactive compounds by adventitious root suspension cultures of *Morinda citrifolia* (L.) in liquid phase airlift balloon type bioreactor. **In vitro Cell Dev Biol Plant (Impact factor 2.6).** 49: 737-749.
21. **Baque MA**, Shiragi MHK, Moh SH, Lee EJ, Paek KY. 2013. Pharmaceuticals from In Vitro Plant Cultures: Anthraquinones, Phenolics and Flavonoids. *Agricell Reports* 61(6): 41-48
22. **Baque MA**, Sang-Hyun Moh, Lee EJ, Zhong JJ, Paek KY. 2012. Production of Biomass and Useful compounds from Adventitious Roots of High-value Added Medicinal Plants using Bioreactor. **Biotechnology Advances (Impact factor 16).** 30: 1255-1267

23. Sivakumar G, Bolivar FM, Lay Jr JO, Dolan MC, Condori J, Grubbs SK, Wright SM, **Baque MA**, Lee EJ, Paek KY. 2011. Bioprocess and Bioreactor: Next Generation Technology for Production of Potential Plant-based Antidiabetic and Antioxidant Molecules. **Current Medicinal Chemistry (Impact factor 4.84) 18**: 79-90.
24. **M.A. Baque**, M.H.K. Shiragi, E.J. Lee and K.Y. Paek (2012), "Elicitor Effect of Chitosan and Pectin on the Biosynthesis of Anthraquinones, Phenolics and Flavonoids in Adventitious Root Suspension Cultures of *Morinda citrifolia* (L.)", **Australian Journal of Crop Science (Impact factor 1.63)**. 6(9):1349-1355 (2012).
25. **Baque MA**, Lee EJ, Paek KY. 2012. Sucrose regulated enhanced induction of anthraquinone, phenolics, flavonoids biosynthesis and activities of antioxidant enzymes in adventitious root suspension cultures of *Morinda citrifolia* (L.). **Acta Physiologiae Plantarum (Impact factor 2.8)**. 34: 405-415.
26. Shin YK, **Baque MA**, Lee EJ, Paek KY. 2011. Effects of Activated Charcoal, Plant Growth Regulators and Ultrasonic Pre-treatments on *In Vitro* Germination and Protocorm Formation of *Calanthe* Hybrids. **Australian Journal of Crop Science (Impact factor 1.69) 5**: 582-588.
27. **Baque MA**, Shin YK, Lee EJ, Paek KY. 2011. Effect of light Quality, sucrose and coconut water concentration on the microporpagation of *Calanthe* hybrids ('Bukduseong' × 'Hyesung' and 'Chunkwang' × 'Hyesung'). **Australian Journal of Crop Science (Impact factor 1.69) 5 (10)**: 1247-1254
28. Shin YK, **Baque MA**, Lee EJ, Paek KY. 2011. Advances in regeneration and micropropagation: factors in orchid *In vitro* asymbiotic seed germination and protocorm formation. (news letter) **Agricell Report 57(1): 1-8**
29. **Baque MA**, Lee EJ, Paek KY. 2010. Medium salt strength induced changes in growth, physiology and secondary metabolite content in adventitious roots of *Morinda citrifolia*: the role of antioxidant enzymes and phenylalanine ammonia lyase. **Plant Cell Reports (Impact factor 5.30) 29:685–694**
30. **Baque MA**, Hahn EJ, Paek KY. 2010. Induction mechanism of adventitious root from leaf explants of *Morinda citrifolia* as affected by auxin and light quality. **In Vitro Cellular Development and Biology—Plant (Impact factor 2.6) 46:71–80**

31. **Baque MA**, Hahn EJ, Paek KY. 2010. Growth, secondary metabolite production and antioxidant enzyme response of *Morinda citrifolia* adventitious root as affected by auxin and cytokinin. **Plant Biotechnology Reports (Impact factor 2.0) 4:109–116**
32. Shiragi MHK, **Baque MA**, Nasiruddin KM. 2010. Eradication of Banana Bunchy Top Virus (BBTV) Through Meristem Culture of Infected Plant Banana cv. Sabri. **Horticulture Environment and Biotechnology (Impact factor 0.34) 51:212-221**
33. **Youngse J**, **Baque MA**, Shiragi MHK, Moh SH, Lee EJ, Paek KY. 2013. CO<sub>2</sub>-enriched microenvironment induces biosynthesis of anthraquinones, phenolics and flavonoids in bioreactor cell suspension cultures of *Morinda citrifolia* (L.): the role of antioxidants and enzymes. **Australian Journal of Crop Science (Impact factor 1.69) 7(11): 1606-1616.**
34. Cui HY, **Baque MA**, Lee EJ, Paek KY. 2012. Scale-up of adventitious root cultures of *Echinacea angustifolia* in a pilot-scale bioreactor for the production of biomass and caffeic acid derivatives. **Plant Biotechnology Reports (Impact factor 2.0) (DOI 10.1007/s11816-012-0263-y): 7: 297-308**
35. Wu RZ, **Baque MA**, Paek KY. 2010. Establishment of Large-scale Micropropagation System of *Anoectochilus formosanus* in Bioreactors. Proc. 1<sup>st</sup> Int'l Orchid Symposium, Taiwan, International Society of Horticultural Science (ISHS). **Acta Horticulturae 878: 167: 173**
36. Kulsum MU, **Baque MA**, Akter A, Shiragi MHK, Karim MA. 2007. Effects of different N levels on the dry matter production, canopy structure and light transmission of Blackgram. **Asian J Plant Science 6(7): 1044-1050**
37. Kulsum MU, **Baque MA**, Karim MA. 2007. Effects of different N levels on the morphology and yield of Blackgram. **J Agronomy 6(1): 125-130**
38. Kulsum MU, **Baque MA**, Karim MA. 2007. Effects of different N Levels on the Leaf chlorophyll, nutrient concentration and nutrient uptake pattern of Blackgram. **J Biological Science 10(2): 250-254**
39. Ullah MJ, Hossain HMMT, **Baque MA**. 2006. Yield Response of Bushbean (*Phaseolus vulgaris* L.) to Doses of Fertilizers and Sowing Times in Bangladesh. **Korean J Crop Science 51(6): 491-496**

40. Shiragi MHK, **Baque MA** and Nasiruddin KM. 2006. Eradication of Banana Bunchy Top Virus (BBTV) and Banana Mosaic Virus (BMV) from Infected Plant of Banana cv. Amritasager through Meristem Culture. **J South Pacific Studies. 29(1): 17-41**
41. 25. **Baque MA**, Karim MA, Hamid A, Hidaka T. 2006. Effects of Fertilizer Potassium on Growth, Yield and Nutrient Uptake of Wheat (*Triticum aestivum* L.) under Water Stress Conditions. **J South Pacific Studies 27 (1):25-35**

#### **Paper published in the National Journal**

42. Habib MA, Karim MF, **Baque MA**. 2024. Calcium management towards Peg and Pod development of Groundnut. *J Expt Biosci.* 15(1): 37-56
43. Habib MA, Karim MF, **Baque MA**. 2024. Growth Attributes of Groundnut Influenced by Different Levels of Calcium. *J Expt Biosci.* 15(1): 1-14
44. Amin AKMR, Afrose T, **Baque MA**. 2024. Performance of Mepiquat Chloride on Yield and Oil content of Sunflower (*Helianthus annus* L.). *J Expt Biosci.* 15(1): 97-104
45. Razia S, Ali MH, **Baque MA**, Aziz KMT, Sourav TA, Masum SM. 2024. Growth and Yield of Rapeseed as Affected by Sulphur and Boron Fertilizer. *J Expt Biosci.* 15(1): 111-124
46. Amin AKMR, **Baque MA**, Afrose T. 2020. Influence of Nitrogen and Sulphur on Growth, Yield and Oil Content of Sunflower. *J Expt Biosci.* 11(2): 95-100
47. Jahan MR, Sharmin T, Akhter J, **Baque MA**, Hossain HMMT. 2018. Planting Geometric Effect on Yield of Rapeseed and Mustard varieties. *J Expt Biosci.* 9(2): 51-58
48. Shiragi MHK, **Baque MA**, Nasiruddin KM, Uddin FM. 2010. Effect of Variety and Plant Growth Regulators in MS Medium on the Response of Multiple Shoot and Root Proliferation from Virus Infected Banana Plants. **J Asiatic Society of Bangladesh science 36 (1): 55- 65**
49. Islam A, Shiragi MHK, **Baque MA**, Rahman MS, Khanam T. 2009. Arsenic Contamination in Food chain due to Arsenic Contaminated Ground Water Irrigation. *International Journal of Sustainable Agricultural Technology* 5 (9): 40- 45
50. **Baque MA**, Islam MO, Shiragi MHK, Hossain HMMT. 2007. Effect of Seed Rate and Time of Harvest on Yield and Quality of Wheat Seed. . **International Journal of Sustainable Agricultural Technology 3 (3): 58- 64**

51. Miah MAB, Rahman MM, Hoque MM, **Baque MA**. 2006. Effect of storage relative humidity on germination and vigor of soybean seed. *International J Eng Technol* 3 (1): 17-24
52. Arifin MS, **Baque MA**, Islam SMAS, Hossain MM, Karim AJMS. 2005. Influence of NPK and cowdung on the yield performance of IPSA seam-3. *International Journal of Sustainable Agricultural Technology* 1 (6): 69-75
53. **Baque MA**. 2003. Influence of potassium on stomatal response and gas exchange characteristics of *Triticum aestivum* L. under different soil moisture regimes. *Progressive Agriculture* 14: 53-56
54. **Baque MA**, Karim MA, Hamid A. 2002. Role of potassium on water relation behavior of *Triticum aestivum* L. under water stress conditions. *Progressive Agriculture* 13: 71-75

#### **Abstracts in national and international conferences**

1. Baque et. al. 2014. Induction of drought tolerance in mungbean through osmo and hydro priming. *Agronomic visions for sustainable food security*, 13<sup>th</sup> Conference, Organized by Bangla Society of Agronomy at BRRI, Gazipur.
2. **Baque et al.** 2014. Mannitol-induced seed priming enhances salt tolerance capability of Mungbean. *Agronomic visions for sustainable food security*, 13<sup>th</sup> Conference, Organized by Bangla Society of Agronomy at BRRI, Gazipur.
3. Baque et al. 2014. Improvement of germination behaviour and seedling growth of rice through seed priming under salt stress. *Agronomic visions for sustainable food security*, 13<sup>th</sup> Conference, Organized by Bangla Society of Agronomy at BRRI, Gazipur.
4. Baque et. al. 2014. Induction of drought tolerance in Wheat through osmo and hydro priming. *Agronomic visions for sustainable food security*, 13<sup>th</sup> Conference, Organized by Bangla Society of Agronomy at BRRI, Gazipur.
5. Baque MA, Paek KY (2014) Growth Kinetics and Scale up of Adventitious Root Cultures of *Morinda citrifolia* for Production of Bioactive Compounds in Pilot Scale Bioreactors, 7th International Plant Tissue Culture & Biotechnology Conference on

Biotechnology and Biosafety for Human Welfare, University of Dhaka, Bangladesh, 2014.

6. Paek KY, Lee EJ, **Baque MA**, Zhong JJ. 2011. Production of Biomass and Useful compounds from Medicinal Plants Using Bioreactors. **Asian Congress on Biotechnology (ACB-2011), pp. 75; May 11-15, 2011, Shanghai, China**
7. Baque MA, Paek KY. 2013. Application of bioreactor: A novel technology for commercial scale production of biomass and bioactive compounds from high value added medicinal plants. 2<sup>nd</sup> ayuns International Ayurvedic Conference on “**Modality of Ayurvedic & Traditional medicines**”. Journal of Ayurvedic and Traditional Medicines.
8. Jang YS, **Baque MA**, Paek KY. 2011. Carbon dioxide-induced changes in growth, bioactive compound production and antioxidative responses of cell suspension cultures of *Morinda citrifolia* (L.) in airlift bioreactor. **Korean Society of Plant Biotechnology**, November, 2011, Chungnum National University, Dageon, Republic of Korea.
9. **Baque MA**, Hahn EJ, Paek KY. 2008. Adventitious root cultures and secondary metabolite production in *Morinda citrifolia* as affected by growth regulators and inoculum density. J. Biotechnology, S 167; **13th international Biotechnology symposium and Exhibition, Dalian, China.**
10. **Baque MA**, Hahn EJ, Paek KY. 2008. Optimization of physico-chemical factors for the production of biomass and bioactive compounds from adventitious root cultures of *Morinda citrifolia*. **The first Asian Horticultural Congress (AHC), JEJU, Korea, pp. 88.**
11. Wu RZ, **Baque MA**, Paek KY. 2010. Establishment of large-scale micropropagation system of *Anoectochilus formosanus* in bioreactors. **The first International Orchid Symposium, Taiwan, ISHS, pp. 32.**
12. **Baque MA**, Lee EJ, Paek KY. 2010. Elicitation of methyl-jasmonate (MJ) enhanced anthraquinone, phenolics and flavonoids content in adventitious roots of *Morinda citrifolia*: role of antioxidant enzymes and phenylalanine ammonia lyase. Conference of the Korean Society of Horticultural Science (KSHS), Korean Journal of Horticulture Science and Technology 28 (suppl 1): 149. 2010

13. **Baque MA**, Lee EJ, Paek KY. 2010. Aeration Volume Affects on Growth, Anthraquinone, Phenolics and Flavonoids Content in Adventitious Roots of *Morinda citrifolia*: Role of antioxidant enzymes and phenylalanine ammonia lyase. **Korean Society of MedCrop Science. 2010.**
14. **Baque MA**, Hahn EJ, Paek KY. 2008. Biomass and secondary metabolites production from adventitious root of *Morinda citrifolia* culture in bioreactors. BK 21 for AgroBio, preparing for the future, the next revolution with biotechnology. CBNU, Korea. pp. 199-200.
15. **Baque MA**, Lee EJ, Paek KY. 2010. Optimization of culturing conditions for the production of biomass and bioactive compounds from adventitious roots of *Morinda citrifolia*. Brain Korea 21 (BK21), workshop. pp. 165.

#### **Oral Presentations**

1. Growth Kinetics and Scale up of Adventitious Root Cultures of *Morinda citrifolia* for Production of Bioactive Compounds in Pilot Scale Bioreactors, 7th International Plant Tissue Culture & Biotechnology Conference on Biotechnology and Biosafety for Human Welfare, University of Dhaka, Bangladesh, 2014.
2. Production of biomass and bioactive compound from adventitious root cultures of high value-added medicinal plants using bioreactor. International Congress on role of science and scientist to achieve MDG, Organized by Bangladesh Association for Advancement of Science (BAAS), BCSIR, Dhaka, Bangladesh, 2012.
3. Application of bioreactor: A novel technology for commercial scale production of biomass and bioactive compounds from high value added medicinal plants. 2<sup>nd</sup> ayuns International Ayurvedic Conference on “**Modality of Ayurvedic & Traditional medicines**”, April 2013, **Senate Bhavan, University of Dhaka, Bangladesh.**
4. Large-scale production of biomass, bioactive compounds in bioreactors and enhancement of anthraquinone biosynthesis in adventitious roots of *Morinda citrifolia* elicited with methyl jasmonate. Oral presentation, conference of the Korean Society for Horticultural Science (KSHS), **Seoul National University, Korea. 2010.**

5. Enhancement of anthraquinone, phenolics and flavonoid content in adventitious roots of *Morinda citrifolia* elicitation with MJ. Workshop on “Fostering a world class talent”, Brain Korea 21 (BK 21), **Chungbuk National University (CBNU), Cheongju, Korea. April 2010.**

### **Other relevant experiences**

#### **Editorial activities:**

**Member of the Editorial Board:** Universal Journal of Agricultural Research (UJAR), Horizon Publishers, USA.

**Associate Editor:** Frontiers in plant sciences (Crop Science & Horticulture) and Journal of Agrotechnology.

**Review editor:** Process Biochemistry, Current Proteomics, Biotechnology Progress, Molecular Biology Reports, Molecular Biology, Acta Physiologiae Plantarum, Biochemical Engineering Journal, Frontiers in Plant Sciences, African J. of Plant Biotechnology, Australian Journal of Crop Science, Plant Omics Journal and Asian Net work for the Scientific Information (ANsiNet) and some other academic journals.

**Policy:** I have developed Industrial Biotechnology Policy Guideline of Bangladesh, Organized by Bangladesh Ministry of Industries.

### **Workshop/conference attended**

1. 7th International Plant Tissue Culture & Biotechnology Conference on Biotechnology and Biosafety for Human Welfare, University of Dhaka, Bangladesh, March 1-3, 2014.
2. Crop Physiology and Climate Change Adaptation, BRAC CDM, Rajendropur, Gazipur, 22-27 June, 2013, Organized by KGF, BARC, Khamarbari Farm gate, Dhaka.
3. Application of GIS to increase farm productivity through land suitability of major cropping pattern in Bangladesh, at BARC, Dhaka. August 24, 2013.
4. International Congress on Role of Science and Scientist in developing MDG, BCSIR, Dhaka, Bangladesh, 2012.

5. International Conference on Advances of Agronomic Research Adaptation to Climate Change. Organized by-Bangladesh Society of Agronomy (BSA) at Bangladesh Agricultural Research Institute, Gazipur, Bangladesh, 2012.
6. Asian Congress on Biotechnology (ACB-2011), May 11-15, 2011, Shanghai, China.
7. Korean Society of Plant Biotechnology, November, 2011, Chungnum National University, Dageon, Republic of Korea.
8. Advances in Somatic Embryogenesis of Trees and Its Application for the Future Forests and Plantations. IUFRO, August 19-21, 2010, Suwon, Korea.
9. The Second Asian Horticultural Congress (AHC 2009), Jeju Island, Korea.
10. 13th international Biotechnology symposium (IBS) and Exhibition, Dalian, China, 2008.
11. Food Security Policy workshop, May 2012, Ruposhi Bangla Hotel, Dhaka, Bangladesh. Organized by FAO.
12. National Seed Fair and Seminar, 11-13 July, 2012, Sher-e-Bangla Agricultural University (SAU), Dhaka-1207, Bangladesh. Organized by SAU and Seed Wing, Ministry of Agriculture, Bangladesh.

### **List of Supervisors and Co-Supervisors for MS and Ph.D Students**

#### **List of Supervisors for PhD Students**

1. **Md. Atiqure Rahman**, Reg. No. 17-08218; Optimizing herbicidal method of weed control in transplanted boro rice.
2. **Mohammad Atiqul Islam Fakir**, Reg. No. 17-08219, July-December/21; Calcium and potassium management towards enhancing seed quality of groundnut.
3. **Md. Shafiqul Hasan**, Reg. No. 18-09071, Yield and quality of late sown kenaf as influenced by production method and agronomic management practices under AEZ-8

#### **Co-Supervisors**

1. **Kaniz Fatima**, **Reg. No.: 00908**,(January-June/2019);Adaptability of White Maize in Different Irrigation Regimes and Water Stress Mitigation by Antitranspirants for Better Yield in Bangladesh.

2. **Mohammad Abdul KaioumMojumdar, Reg. No. 18-08324**, (July-December, 2022); Introduction and Characterization of [*Perillafrutescens* (L.) Britton] for Increasing Edible Oil Production In Bangladesh.

**Ongoing**

3. Khondaker Yeasen Mohammad Shoukat, Reg. No. 00486/26192,

**List of Supervisors for MS Students**

01. Mahmuda Motmainna, 07-02254, Jan.-June/14; Growth and yield response of wheat to the application of different levels of lime and phosphorous.
02. Md. Samsujjoha Chowdhury, 07-02469, Jan.-June/14; Effect of Irrigation and Potassium on the Yield of Wheat.
03. Munmun Nahar, 08-03028, July-Dec./14; Induction of drought tolerance in wheat through osmo and hydro priming.
04. Md. Asaduzzaman, 08-03082, July-Dec./14; Mannitol induced seed priming enhances salt tolerance capability in mungbean (*Vigna radiata*) under salt stress.
05. Wasia Jahan Badhan, 08-03125, July-Dec./14; Improvement of germination and seedling growth of rice through priming under salt stress condition.
06. Md. Hasenur Hossain, 08-02917, Jan.-June/15; Efficacy of herbicide and residual effect of transplanted aus rice.
07. Md Anisur Rahman, 09-03328, Jan.-June/15; Induction of drought tolerance in mungbean (*Vigna radiate* L.) through osmo and hydro priming.
08. Jannatul Ferdous Moonmoon, 09-03619, Jan.-June/15; Evaluation of herbicide efficacy and residual activity in transplanted aromatic boro rice (vc. BRRI Dhan50).
09. Imrul Kaes, 14-06328, Jan.-June/15; Evaluation of herbicidal efficacy and residual activity on direct seeded boro rice (*Oryza sativa*) cv. BRRI dhan50.
10. Najmun Nahar, 09-03550, Jan.-June/16; Efficacy and residual activity of herbicide on growth and yield of broadcast aus rice.
11. Mst. Mahbuba Nargis Neela, 10-03775, Jan.-June/16; Efficacy of herbicides and their effect on yield of transplanted aus rice.

12. Md. Mahamudul Hasan, 10-03849, Jan.-June/16; Germination, seedling growth and water relation behavior of wheat genotypes as affected by salt stress.
13. Most. Faijunnahar, 15-06968, July-Dec./16; Polyethyleneglycol (peg) induce changes in germination, seedling growth and water relation behaviour of wheat under salt stress condition.
14. Mst. Rumana Rahman, 11-04243, Jan.-June/17; Mannitol induced salt tolerant capacity of wheat under salt stress condition.
15. Mariam Akter Orthy, 11-04246, Jan.-June/17; Induction of salt tolerance capability in wheat (*triticumaestivum l.*) through hydrogen peroxide (h<sub>2</sub>o<sub>2</sub>).
16. Prithikona Roy, 11-04342, Jan.-June/17; Screening of salt tolerant capability of soybean under salt stress condition.
17. Mohammad Mahamudul Hasan, 11-04351, Jan.-June/17; Abscisic acid induced changes in seed germination seedling growth and water relation behavior of wheat under salt stress condition.
18. Md. Masud Ibne Abdullah, 12-04914, July-Dec./17; Induction of drought tolerance capacity of mungbean (*vignaradiata*) through mannitol and hydropriming.
19. Sujat Ahmed, 16-07566, July-Dec./17; Effect of transplanting date on the growth and yield of Aman Rice in polder ecosystem of the southwestern coastal zone of Bangladesh.
20. Nusrat Jahan Keya, 12-04762, Jan.-June/18; Induction of drought tolerance capability of soybean through polyethylene glycol and hydropriming.
21. Monalisa, 17-08306, Jan.-June/18; Evaluation of best priming agent and wheat (*TriticumaestivumL.*) genotype in relation to growth, yield and nutrient uptake pattern under salt stress condition.
22. Nurjahan Shithi, 12-04919, Jan.-June/18; Induction of salt tolerance capability of mungbean through polyethylene glycol (peg) and hydropriming.
23. Munmun Akter, 12-05221, Jan.-June/18; Induction of drought tolerance capability of soybean through mannitol and hydropriming.
24. Md. Maruf Hasan, 13-05270, July-Dec./19; Evaluation of genetical purity and yield performance of coarse grain hybrid rice in transplant aman.
25. SK. Md. Samiuzzaman, 18-09115, Jan.-June/20; Evaluation of genetical purity, growth and yield performance of maize (*Zea mays*).

26. Sayeda Farhin Tamanna, 12-05035, Jan.-June/20; Establishment of integrated nutrient management system towards yield and economics of mungbean.
27. Mahfuza Muntaha, 13-05272, Jan.-June/20; Yield and economics of mungbean as influenced by organic and inorganic fertilizer management.
28. Md. Mehedi Hasan Sumon, 13-05279, Jan.-June/20; Exploration of genetical purity, yield performance and grain quality of hybrid T. aman rice.
29. Sheikh Mehrab Hossain Porag, 18-09121, July-Dec./20; Screening of genetical purity, growth and yield performance of maize.
30. Muslim Uddin, 18-09180, July-Dec./20; Influence of spacing on growth and yield of SAU hybrid vutta 1 and SAU hybrid vutta 2.
31. KH. Abdul Bari, 18-09198, July-Dec./20; Role of potassium on the growth and yield of SAU hybrid vutta 1 and SAU hybrid vutta 2.
32. Ishrat Anjum, 13-05607, Jan.-June/21; combined effect of biochar and phosphorus on growth and yield of wheat under different irrigation regime.
33. Moumita Sarkar, 13-05608, Jan.-June/21; Enhancement of growth and yield of wheat through biochar and potassium management under different irrigation regimes
34. Most. Sadia Afrin, 14-06132, Jan.-June/21; Enhancement of germination, seeding growth, water relation behavior of wheat through osmo and hydro priming under drought stress condition.
35. Mst. Sabrina Aktar, 14-06244, Jan.-June/21; Induction of drought tolerance in wheat through nutrient and hydro priming.
36. Nazir Ahmed, 19-10190, July-Dec./21; Enhancement of salt tolerant capability in wheat through magic growth and hydropriming.
37. Mst. Habiba Sultana, 19-10201, July-Dec./21; Induction of drought tolerance capability in wheat through urea and hydro priming.
38. AsmulHusna, 15-06432, Jan.-June/22; Growth and yield of maize as affected by tricho-compost and integrated nutrient management.
39. Rubaya Binte Rezaul, 20-11081, Jan.-June/22; Influence of organic and inorganic nutrient management of growth and yield of maize.

**Ongoing**

40. Shakhawat Hossain, 21-010016, Jan.-June/23; Role of maleic hydrazide on inducing dormancy in boro rice.
41. Aman Ullah, 21-010018, Jan.-June/23; Effect of maleic hydrazide on inducing dormancy in boro rice.
42. Aparna Biswas, 21-010035, Jan.-June/23; Influence of salicylic acid on inducing dormancy in boro rice.
43. Md. Junayed Hossain, 21-010105, Jan.-June/23; Effect of salicylic acid on inducing dormancy in boro rice to prevent preharvest sprouting.

#### **Co-Supervisors**

01. Shubha AnkurBhattacharje, 07-02587, Jan-June/09; Effect of irrigation on the growth and yield of different wheat varieties.
02. Md. Arafat Hasan, 11-04706, July-Dec./13; Effect of seedlings per hill and weed management strategies on growth and yield of brri dhan50.
03. Lutfun Naher, 07-02255 July-Dec./13, Effect of variety, sowing time and irrigation on the growth of wheat.
04. Farzana Aktar, 07-02414, Jan.-June/14; Growth and yield variations in lentil fertilized with different forms of urea.
05. Md. Sohel Mahmud, 07-02484, Jan.-June/14; Yield and yield contributing parameters of wheat as affected by irrigation, sowing date and variety.
06. Md. Ahsan Habib; 08-03155, Jan.-June/14; Calcium management towards peg and pod development of groundnut.
07. SrabantikaSarker, 08-02787, July-Dec./14; Response of different source of potassium fertilizer on growth, yield and quality of five potato varieties.
08. Sultana Razia, 08-03037, July-Dec./14; Growth and yield performance of mustard as affected by sulphur and boron.
09. Sanjida Rashid Bipasha, 08-02954, Jan.-June/15; Growth and yield of mungbean varieties as affected by planting methods.
10. Mst. Nusrat Aktar, 09-03358, Jan.-June/15; Weed management towards improvement of growth and yield of sesame varieties.
11. Negar Sultana, 09-03497, Jan.-June/15; Effect of pull 5c and 2, 4-D on weed killing efficacy towards phenology and yield of mungbean.

12. Taslima Akter, 09-03625, Jan.-June/15; Effect of seed size and spacing on growth and yield of mungbean.
13. Mahmud Morshed Shaon, 09-03688, Jan.-June/15; Cultivation of T. Aman rice through separated tillers from inbred and hybrid varieties in Bangladesh.
14. Mahbuba Akter, 14-06340, Jan.-June/15; Effect of different level of nitrogen on growth, yield and seed quality of wheat.
15. SumyaBintaBelayet, 10-04082, Jan.-June/16; Effect of polythene mulch and irrigation frequency on growth and yield of white maize.
16. Mst. Rifat Jahan, 15-06878, Jan.-June/16; Planting geometric effect on growth and yield of rapeseed and mustard.
17. Mst. Sadia Afroj, 15-06966, July-Dec /16; Response of blackgram to foliar application of urea and boron.
18. Meghdut Kumar Roy, 11-04470, Jan.-June/17; Effect of boron and zinc on the growth and yield response of mungbean.
19. Dipti Rani Roy, 11-04509, Jan.-June/17; Impact of nitrogen, phosphorus and biofertilizer on nodulation growth and yield of chickpea.
20. A. S. M. Rasheduzzaman Binhafiz, 11-04519, Jan.-June/17; Reduction of panicle sterility and improvement of yield of hybrid rice through foliar boron application.
21. Paroma Rani Saha, 11-04654, Jan.-June/17; Productivity and processing quality of potato as influenced by growth duration, time of nitrogen application and intra-row spacing.
22. Bethée Rani Das, 12-04874, Jan.-June/18; Effect of biochar on soil amendment through carbon sequestration and yield and processing quality of potato varieties.
23. Afroja, 12-04960, Jan.-June/18; Influence of micronutrients on growth and yield of maize (*Zea mays* L.).
24. Syeada Jannatul Ferdush Shila, 12-05013, Jan.-June/18; Induction of drought tolerant capability of mungbean through hydrogen peroxide (h<sub>2</sub>o<sub>2</sub>) and hydropriming.
25. A. K. M. Ariful Alam Khan, 12-05083, Jan.-June/18; Growth and yield of chickpea as influenced by npk fertilizers and irrigation frequency.
26. Md. Touhidujjaman, 13-05300, July-Dec./19; Study on branching dynamics and yield as affected by population density of mustard.

27. Md. Nurjamal Islam, 18-09193, Jan.-June/20; Osmolyte-induced water deficit stress mitigation during panicle initiation stage in aman rice.
28. Naimur Rahman Durjoy, 13-05374, Jan.-June/20; Growth and yield performance of a short stature early white maize under varying inter row and intra plant spacing.
29. Morsalin Hasan, 13-05393, Jan.-June/20; Effect of poultry manure and weeding on growth and yield of transplanted aman rice.
30. Md. Hasan Mahmud, 13-05636, Jan.-June/20; Yield and aromatic quality of fragrant rice as influenced by nitrogen and sulphur fertilization.
31. Sonia Akter Shayla, 18-09168, July-Dec./20; Effect of sowing date and potassium on the growth and yield of sunflower in kharif-1 season.
32. A.B.M. Zahurul Islam, 13-05645, Jan.-June/21; Amelioration of salt stress in soybean by microbial biofertilizer.
33. A K M Shahid Hasan, 14-06011, Janu.-June/21; Effect of npk and benzylaminopurine on growth and yield of chickpea.
34. Ahona Tanji Upoma, 14-06017, Jan.-June/21; Response of vermicompost and biochar on yield and quality of fragrant rice through minimization of nitrogen.
35. Eastik Kanis Fatema, 14-06027, Jan.-June/21; Improvement of germination and seedling growth of blackgram through priming under salt stress condition.
36. Md. Iftekhairul Islam, 19-10183, July-Dec./21; System of mustard intensification as influenced by variety and vermicompost.
37. Most. ManiraKhatun, 19-10351, July-Dec./21; Performance of earthing up white maize under varying levels of fertilizer application.
38. Md. Ripon Ali, 19-10385, July-Dec./21; Performance of vermicompost with inorganic fertilizer on the morphological and yield attributes of mustard.
39. Md. Dabir Uddin, 15-06401, Jan.-June/22; Effect of synthetic, biofertilizer, farm-yard manure and vermicompost of growth and yield of lentil.
40. Toma Debnath, 15-06527, Jan.-June/22; Study on yield and yield components of wheat as affected by sowing date.

#### **Ongoing**

41. Farjana Hossain, 16-07030, Jan.-June/23; Effect of arsenic stress on four mungbean varieties.

42. Tasnuva Tabassum, 16-07053, Jan.-June/23; Effect of sowing date and potassium level on the growth and yield of mungbean in the kharif-I season.
43. Mst. Israt Jahan, 16-07105, Jan.-June/23; Influence of zinc and boron on growth and yield of chickpea.
44. Md. Hafizul Islam, 21-010017, Jan.-June/23; Effect of complementary irrigation and potassium spraying on the quantitative and qualitative traits of black gram.

### **Involvement in the Professional Societies**

- International Biotechnological Society (IBS)
- Asia-Pacific Society of Agro-Biotechnology
- Bangladesh Association of Plant Tissue Culture & Biotechnology (BAPTC&BT)
- Korean Society of Plant Biotechnology (KSPBT)
- Korean Society of Medicinal Crop Science (KSMCS)
- Korean Society of Horticultural Science (KSHS)
- National Institute of Plant Biotechnology (NIP)
- Bangladesh Society of Agronomy (BSA)
- Weed Science Society of Bangladesh (WSSB)
- Bangladesh Society of Seed Science (BSSS)
- Bangladesh Association for Advancement of Sciences (BAAS)
- Ayurved and Naturopathy Association (AYUNS) of Bangladesh

### **Fellowship**

Post Doctorate	Brain Korea 21 (BK 21) from January 2011 to Feb 2012
Ph.D.	Brain Korea 21 (BK 21) from Sept 2007 to December 2010
MS	National Science and Technology (NST)

**Collaborative teaching experience with Full Bright Scholar:** I have jointly work with full bright scholar Dr. Prasantha C. Bhowmik, Professor Department of Plant, Soil, and Insect Sciences, University of Massachusetts (<http://www.people.umass.edu/pbhowmik/>) for 6 months

(Jan to June 2006) in my Agronomy Dept. at Sher-e-Bangla Agricultural University, Dhaka, Bangladesh. The objectives were to disseminate knowledge to the students of MS in Agronomy, and B.Sc. Ag. on weed science, development of course curriculum of applied weed science for MS students (Agronomy), workshop, seminar on weed science in different universities of Bangladesh and discussed about different aspects of weed management in major crops.

**Professional References:**

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**(Md. Abdullahil Baque, PhD)**