

# Mohammad Atikur Rahman, PhD



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### Personal Info.

Father's name:

Mohammad Habibur Rahman

Mother's name:

Aleck Chan Begum

Date of birth:

20 October, 1976

Nationality:

Bangladeshi by birth

Religion: Islam

Marital status: Married

National ID:

2695435713122

Passport no.:

BB 0009200

Researcher ID:

B-3349-2010

Tax Idn. No.:

525722152942

Home district:

Narsingdi

### Specialization

Molecular and traditional insect taxonomy

### Award & Grants

**2008:** Korean

Government

Scholarship

**2010:** Excellent

Academic

Achievement Award by

Korean Government

**2012:** Appreciation

Award for research

publications (SCI) and

23 new species

invention

**2013-2018:** UGC and

PSTU Research grants

Professor and Chairman  
Department of Entomology  
Patuakhali Science and Technology University  
Dumki, Patuakhali-8602, Bangladesh.

### Summary

Full-time Professor with about 15 years teaching experiences, and molecular and traditional taxonomist over 17 years combined experiences in scientific research respectively.

- ✓ Conducted multi-year research focused on molecular and traditional insect taxonomy, and pest management as a part of insect conservation and biodiversity research.
- ✓ Published 41 national and international articles with some Thomson Reuters Impact.
- ✓ Recognized more than 25 new species in the world and 31 new records in South Korea and Bangladesh.

### Objectives

To explore and boost my career in the field of insect taxonomy and pest management by doing high quality research work, and in addition to generate the knowledge in order to disseminating it among the class-room students for inspiring them in advanced research work.

### Academic Qualifications

2012: PhD, Kyungpook National University, Daegu, Republic of Korea.

2002: MS in Entomology, Bangladesh Agricultural University, Mymensingh, Bangladesh. **(First class)**

1997: BSc in Agriculture, Bangladesh Agricultural University, Mymensingh, Bangladesh. **(First class 16<sup>th</sup>)**

1993: H.S.C. (Science), Narsingdi Govt. College, Dhaka board, Bangladesh. **(First division)**

1991: S.S.C.(Science), Satirpara K.K. High School, Dhaka board, Bangladesh. **(First division)**

### Employment History

2015-till date: Professor, Department of Entomology, PSTU.

2012-2015: Associate Professor, Department of Entomology, PSTU.

2008- 2012: Assistant Professor, Department of Entomology, PSTU.

2003- 2008: Lecturer, Department of Entomology, PSTU, Bangladesh.

### Teaching Experience

**Undergraduate teaching:** Systematic entomology, Insect physiology and nutrition, Insect ecology and pest management, Economic entomology.

**Graduate teaching:** Insect taxonomy, Insect Pest Management, and Entomological techniques.

### Research Interest

Major research interest includes insect phylogenomics, the biology and molecular systematics of Auchenorrhyncha and Sternorrhyncha, agriculturally important mites, conservation of insect biodiversity, and insect pest management.

### Research Project

- "Morphological and molecular identification of mites found in coconut and vegetables from Patuakhali District" funded by RTC, PSTU.
- "The Taxonomic Status and Classification of Auchenorrhyncha (Hemiptera) Known from PSTU Farm" funded by PGS, PSTU.
- "The Taxonomic Status of Auchenorrhyncha (Hemiptera) Known from South-eastern part of Bangladesh" funded by UGC.

# Curriculum Vitae

of

Prof. Mohammad Atikur Rahman, PhD

## PhD Dissertation & MS Thesis

### Taxonomic Revision of the Infraorder Fulgoromorpha from Korea (Homoptera: Auchenorrhyncha)

[A total of 102 species belonging to 53 genera are arranged in the revisionary work, of which 9 genera and 21 species are recorded for the first time in Korea, and 23 species are new to science with 4 new combinations. A molecular analysis using ribosomal internal transcribed spacer 2 (ITS2) and cytochrome oxidase subunit I (COI) gene is evaluated for identifying sexually dimorphic species and its congener in Korea.]

### Effectiveness of Weeding, Bunch Covering and Insecticide Spraying in Controlling Banana Leaf and Fruit Beetle (*Nodostoma viridipennis* Mots.)

[Bunch covering with mosquito net were performed the best for controlling Banana leaf and fruit beetle]

## Training and Seminar

1. Routine Laboratory Safety Training Course organized by Environmental Science & Technology Institute, Kyungpook National University, Korea on August 23, 2011
2. Training on curriculum development for undergraduate students in Agriculture organized by HEQEP, PSTU, Bangladesh during 15-17 July, 2015
3. Training on the Essential Electronic Agricultural Library organized by TEEAL and PSTU on October 18, 2016
4. Training on Administrative and Financial Management for University Teachers and Officers, organized by PSTU during 22-23 September, 2017 and 13-14 October, 2017
5. Training course on Data Analysis: Excel and MSTATC, organized by GTI, BAU during July 27-August 08, 2002
6. Participated on 24<sup>th</sup> International Congress of Entomology, Korea during August 19-25, 2012
7. Participated on 6<sup>th</sup> European Hemiptera Congress, Blagoevgrad, Bulgaria during June 25-29, 2012
8. Participated on 13<sup>th</sup> International Auchenorrhyncha Congress, Vaison-la-Romaine, France during June 28-July 2, 2010
9. Participated on Proceedings of annual conference of the Entomological Society of Korea, Hampyeong Natural Ecology Park, Hampyeong-gun, Korea during 14-15 November, 2008
- 10 Participated on 2<sup>nd</sup> International Symposium on Insect Bio-Industry: Achievement and Challenge, Insect Bio Expo Yecheon, Korea during 18-19 August, 2012

As supervisor at MS level: 09 (nine) students

As Co-supervisor at MS level: 07 (seven) students

## Research Supervision

## Research Publication

- 2018** 01. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2018. Three new species of genus *Kuvera* Distant (Hemiptera: Fulgoromorpha: Cixiidae) from Korea. *Oriental Insects* 52(1): 66-78. **(SCI)**
02. Nuruzzaman M., **Rahman M. A.**, Jahan S.M.H., Khan M. M. H., Jhan P.K., Lee K.-Y. 2018. First Molecular Identification of *Tetranychus malaysiensis* and *Sancassania* sp. in Bangladesh. *International Journal of Innovative Research*, **3(1)**:1-6
03. Alam M. S., **Rahman M. A.**, Jahan S.M.H. 2018. Two New Records of the Genus *Idioscopus* Baker (Hemiptera: Idiocerinae) from Bangladesh. *International Journal of Innovative Research*, **3(1)**:13-18
- 2017** 04. Ray A.C., **Rahman M. A.**, Jahan S.M.H. 2017. Toxicity of Botanicals on Eggplant Lace Bug, *Gargaphia solani* Heidemann. *International Journal of Innovative Research*, **2(3)**:55-60.

**Research  
Publication**

- 2017** 05. Ray A.C., **Rahman M. A.**, Jahan S.M.H. 2017. Effect of Phytopesticides on Sweetpotato Whitefly, *Bemisia tabaci* Gennadius. *International Journal of Innovative Research*, **2(2)**:45–49
06. Faruz, F.O., Khan M.M.H., Rahman, M.A., Ullah, M. H., and Islam, K. N. 2017. Effect of rice varieties and growth stages on the abundance of Leafhoppers and Planthoppers. *Bangladesh Journal of Entomology* 27 (1): 9-23.
07. Faruz, F.O., Khan M.M.H., **Rahman, M.A.** 2017. Two new records of cicadellid leafhopper (Hemiptera: Cicadellidae) in rice ecosystem at Dumki upazilla of Bangladesh. *International Journal of Innovative Research* 2(1): 25-32.
- 2016** 08. Afroje, R., Khan M.M.H. and **Rahman, M. A.** 2016. Taxonomic classification, population variation and damage extent of Guava Whitefly, *Aleurodicus dispersus* Russell (Hemiptera: Aleyrodidae). *Bangladesh Journal of Entomology* 26 (1): 31-46.
09. **Rahman, M.A.**, Jhan, P.K., Khan, M.M.H., and Jahan, S.M.H. 2016. A preliminary checklist of Auchenorrhyncha (Hemiptera) from Bangladesh. *International Journal of Innovative Research* 1(2): 9-16.
10. Jhan, P.K., **Rahman, M.A.**, Khan, M.M.H., and Jahan, S.M.H. 2016. A newly recorded genus *Hauptenia* Szwedo (Hemiptera: Fulgoromorph: Derbidae) in Bangladesh, with description of a new species. *International Journal of Innovative Research* 1(1):1-4.
11. Biswas, S., Jahan, S.M.H., and **Rahman, M. A.** 2016. Effects of whey protein and azadirachtin on *Bemisia tabaci* (Hemiptera: Aleyrodidae) and *Tomato yellow leaf curl virus*. *International Journal of Innovative Research* 1(1):53-60.
- 2015** 12. Afroje, R., Khan M.M.H. and **Rahman, M. A.** 2015. Effectiveness of three insecticides in controlling Guava Whitefly, *Aleurodicus dispersus* Russell under laboratory condition. *Bangladesh Journal of Entomology* 25 (2): 89-97.
- 2014** 13. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2014. Taxonomic revision of the subfamily Kermesiinae (Hemiptera: Meenoplidae) from Korea. *Entomological Research* **44 (6)**: 323-330.
14. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2014. Taxonomic revision of the subfamily Achilinae (Hemiptera: Achilidae) from Korea. *Current Research on Agriculture and Life Sciences* **32(4)**: 185-188
- 2013** 15. **Rahman, M.A.**, Kwon, Y.J., Suh, S.J. and Jahan, S.M.H. 2013 Taxonomic revision of the family Flatidae from Korea (Hemiptera: Fulgoromorpha). *Journal of Patuakhali Science and Technology University* **4(2)**:37-47.
16. **Rahman, M.A.**, Kwon, Y.J., Suh, S.J. and Jahan, S.M.H. 2013 Taxonomic revision of the family Fulgoridae from Korea (Hemiptera: Fulgoromorpha). *Journal of Patuakhali Science and Technology University* **4(2)**:49-58.
17. **Rahman, M.A.**, Kwon, Y.J., Suh, S.J. and Jahan, S.M.H. 2013 Taxonomic revision of the family Ricaniidae from Korea (Hemiptera: Fulgoromorpha). *Journal of Patuakhali Science and Technology University* **4(2)**:59-74.

**Research  
Publication**

- 2013** 18. Jahan, S.M.H., **Rahman, M.A.**, Asaduzzaman, M., Bashar, H.M.K., Lee, K.Y. and Tin, M.K. 2013. Morphological identification with molecular analysis of tea red spider mite, *Oligonychus coffeae* (Nietner)(Acari: Tetranychidae) in Bangladesh. *Eco-friendly Agriculture Journal* **6(06)**: 106-110.
19. Jahan, S.M.H., Lee, K.Y., **Rahman, M.A.**, Hasan, M.F., Howlader, M.I.A. 2013. Down regulation of endosymbiont densities and TYLCV amount in *Bemisia tabaci* upon reared on cucumber. *Journal of Patuakhali Science and Technology University* **4(2)**:117-128.
20. Jahan, S.M.H., Lee, K.Y., **Rahman, M.A.**, Howlader, M.I.A., Hasan, M.F. 2013. Intra-specific molecular variation of Arsenophonus endosymbiont in *Bemisia tabaci* and allies. *Journal of Patuakhali Science and Technology University* **4(2)**:129-141.
- 2012** 21. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2012. Taxonomic revision of the tribe Zoraidini (Hemiptera: Fulgoromorpha: Derbidae) from Korea. *Entomological Research* **42 (5)**: 41-54. **(SCIE)**
22. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2012. Two new species of the genus *Vekunta* Distant (Hemiptera: Fulgoromorpha: Derbidae) from Korea. *Zootaxa* **3313**: 23-33. **(SCIE)**
23. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2012. Two newly recorded genera and three new species of the tribe Cedusini (Hemiptera: Fulgoromorpha: Derbidae) from Korea. *Zootaxa* **3261**: 59-68. **(SCIE)**
24. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J., Youn Y.N. and Jo, S.H. 2012. The genus *Pochazia* Amyot and Serville (Hemiptera: Ricaniidae) from Korea, with a newly recorded species. *Journal of Entomology* **9(5)**: 239-247.
25. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2012. Sexual dimorphism documented in *Reptalusiguchii* (Matsumura) (Hemiptera: Fulgoromorpha: Cixiidae) with a description of male. *Entomological Research* **42(1)**:35-43. **(SCIE)**
26. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2012. A new species of the genus *Gergithoides* Schumacher (Hemiptera: Fulgoroidea: Issidae) from Korea. *Entomological News* **122 (4)**: 293-299. **(SCIE)**
- 2011** 27. Jahan, S.M.H., **Rahman, M.A.**, Asaduzzaman, M. and Lee, K.-Y. 2011. Secondary endosymbionts distribution in Bangladesh whitefly, *Bemisia tabaci*(Gennadius)(Homoptera: Aleyrodidae). *Journal of Agroforestry and Environment* **5(1)**: 45-50.
28. Jahan, S.M.H., **Rahman, M.A.**, Asaduzzaman, M. and Lee, K.-Y. 2011. Molecular identification of sweetpotato whitefly, *Bemisia tabaci* (Gennadius)(Homoptera: Aleyrodidae) and biotype detection in Bangladesh. *Bangladesh Journal of Environmental Science* **20**: 73-78.
29. Jahan, S.M.H., **Rahman, M.A.**, Asaduzzaman, M. Tin, M.K. and Lee, K.-Y. 2011. Morphological identification with molecular analysis of spider mite *Tetranychus truncatus* Ehara (Acari: Tetranychidae) in Bangladesh. *International Journal of Bio-Research* **11(1)**:34-40.

**Research  
Publication**

- 2011** 30. Jahan, S.M.H. and **Rahman, M.A.** 2011. Diverse response of growth stages of Brassica varieties to *Lipaphis erysimi* Kalténbach (Homoptera: Aphididae). *International Journal of Zoological Research* **7 (3)**: 286-292.
31. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2011. Taxonomic revision of family Tropicuchidae (Hemiptera: Fulgoromorpha) from Korea. *Entomological Research* **41(6)**: 247-256. (SCIE)
- 2007** 32. Hasan, M.F., Khan, M.M.H., **Rahman, M.A.**, Jahan, S.M.H. and Alam, M.I. 2007. Effect of Bagging and Packing Materials on Physico-chemical Characteristics and Shelf Life of Guava Fruits. *Bangladesh Journal of Progressive Science and Technology* **5(1)**: 145-148.
- 2006** 33. **Rahman, M.A.** and Jahan, S.M.H. 2006. Effectiveness of Different Approaches of Chemical and Biological Control Against Brown Plant Hopper, *Nilaparvata lugens* (Stal.). *Journal of Entomology* **3 (2)**: 136-142.
34. Dilruba, S., Alam, M.M., **Rahman, M.A.** and Hasan, M.F. 2006. Influence of Nitrogen and Potassium on Yield Contributing Bulb Traits of Onion. *International Journal of Agricultural Research* **1(1)**: 85-90.
35. Biswas, T.K., Jahan, M., **Rahman, M.A.**, Khan, M.M.H. and Rahaman, M.A. 2006. Toxic Effects of Insecticides Against Rice Brown Planthopper and Its Predators. *SAARC Journal of Agriculture* **4**: 99-112.
- 2005** 36. Hasan, M.F., Ahmed, B., **Rahman, M.A.**, Alam, M.M. and Khan, M.M.H. 2005. Environmental Effect on Growth and Yield of Tomato. *Journal of Biological Sciences* **5(6)**: 759-767.
37. Rahaman, M.A., Khan, M.M.H., **Rahman, M.A.** and Hasan, M.F. 2005. Effect of Locally Available Insecticides Against Brinjal Shoot and Fruit Borer, Aphid and on the yield of Brinjal. *Bangladesh Journal of Zoology* **33(2)**: 293-296.
- 2004** 38. **Rahman, M.A.**, Khan, M.M.H., Hasan, M.F. and Alam, M.M. 2004. The Incidence and Abundance of Insect Pests and Their Natural Enemies as Influenced by Growth Stages of Rice. *Journal of Agricultural Education and Technology* **7 (1 & 2)**: 19-24.
39. **Rahman, M.A.**, Hossain, M. and Islam, K.S. 2004. Effectiveness of Weeding and Bunch Covering in Controlling Banana Leaf and Fruit Beetle, *Nodostomaviridipennis* Mots. *Journal of Bangladesh Agricultural University* **2(2)**: 237-243.
40. **Rahman, M.A.** 2004. Impact of Different Control Approaches on Physicochemical Characteristics of Banana in Controlling *Nodostoma Viridipennis* Mots. *Journal of Agricultural Education and Technology* **7 (1 & 2)**: 47-50.
41. Rahman, M.A.; Uddin, M.M.; Khan, A.B.; Haque, M.A. and **Rahman, M.A.** 2004. Management of Bean Aphid by Using a Coccinellid Predator and neem oil. *Progressive Agriculture* **15(2)**: 7-12.



**Poster and Oral  
Presentation**

- 2012 01. **Rahman, M.A.**, Kwon, Y.J. and Huh, E.Y. 2012. Taxonomic Revision of the family Issidae from Korea (Homoptera: Fulgoromorpha). In: 24<sup>th</sup> International Congress of Entomology, Daegu, Korea, August 19-25, 161p. (Poster)
02. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2012. Taxonomic Revision of the family Tettigometridae from Korea (Homoptera: Fulgoromorpha). In: 24<sup>th</sup> International Congress of Entomology, Daegu, Korea, August 19-25, 161p. (Poster)
03. Kwon, Y.J., **Rahman, M.A.**, Huh, E.Y. and Suh, S.J. 2012. Taxonomic Revision of the family Derbidae from Korea (Hemiptera: Fulgoromorpha). In: 6<sup>th</sup> European Hemiptera Congress, Blagoevgrad, Bulgaria, June 25-29. (Poster)
- 2010 04. Kwon, Y.J., **Rahman, M.A.** and Suh, S.J. 2010. Taxonomic revision of the family Derbidae from Korea (Homoptera: Fulgoroidea). In: 13<sup>th</sup> International Auchenorrhyncha Congress, Vaison-la-Romaine, France, June 28-July 2, 2010. (Poster)
- 2012 05. **Rahman, M.A.** and Kwon, Y.J. 2012. Taxonomic revision of the family Cixiidae from Korea (Homoptera: Fulgoromorpha). In: 24<sup>th</sup> International Congress of Entomology, Daegu, Korea, August 19-25, 127p. (Oral)
- 2008 06. **Rahman, M.A.** 2008. Environmentally friendly methods for managing crop insect pests in Bangladesh: present status, issues and strategies. In: Proceedings of Annual conference of the Entomological Society of Korea, 2008, Hampyeong Natural Ecology Park, Hampyeong-gun, November 14-15, 2008. p. 21-23. (Oral)

**Gene Sequence  
in NCBI  
Database**

- 2011 01. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2011. *Reptalus iguchii* cytochrome oxidase subunit I (CO1) gene, partial cds; mitochondrial. GenBank accession number: JF319660. National Center for Biotechnology Information. U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894, USA. URL: <http://www.ncbi.nlm.nih.gov/>
02. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2011. *Reptalus quadricinctus* cytochrome oxidase subunit I (CO1) gene, partial cds; mitochondrial. GenBank accession number: JF319661. National Center for Biotechnology Information. U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894, USA. URL: <http://www.ncbi.nlm.nih.gov/>
03. **Rahman, M.A.**, Kwon, Y.J. and Suh, S.J. 2011. *Reptalus iguchii* 5.8S ribosomal RNA gene and internal transcribed spacer 2, partial sequence. GenBank accession number: JF319662. National Center for Biotechnology Information. U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894, USA. URL: <http://www.ncbi.nlm.nih.gov/>

**Reference**

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I do hereby declare that what is stated above is true to the best of my knowledge.