

CURRICULUM VITAE

Miah Mohammad Asaduzzaman



CONTACT INFORMATION

PhD Scholar, Insect Physiology and Molecular biology laboratory
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Assistant Professor, Dept. of Entomology
Faculty of Agriculture, Patuakhali Science & Technology University
Dumki, Patuakhali-8602, Bangladesh
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PERSONAL INFORMATION

Full name : Mohammad Asaduzzaman Miah
Date of Birth and Place : 27 April, 1981, Dhaka (Bangladesh)
Nationality : Bangladeshi

RESEARCH SUMMARY

My previous research was in the area of Insect Pest Control. During my past research tenure I have research experiences on identification of resistance sources of different crops/seeds, management of insect pests through botanicals. Through that research I identified the susceptible or resistant crop/seed variety against respective pest. During that time I have also well informed about the nature, biology and host preference of some key agricultural pest along with their management technique.

In recent past, I focused my research on molecular mechanism of Insecticide resistance. I am trying to explore the ability of metabolic (detoxification) enzymes which degrades the insecticides and finally responsible of insecticide resistance. At present, I am exploring the genes of CYP450 families that act as detoxification enzymes. Besides, I am working to find out the activities of metabolites (Chemicals/insecticides) in insect body.

AREA OF INTEREST

- Insect/ Insecticide Toxicology
- Insecticide Detoxification Enzymes for malaria/Adis control
- Xenobiotics degradation
- Pesticide monitoring/design

EDUCATION

Doctor of Philosophy (PhD) - Continuing

- **Subject** : Plant Protection (Entomology)
- **Area of specialization** : Molecular Mechanism of Insecticide Resistance
- **Duration** : September, 2014 – August, 2017 (Expected)
- **University** : Nanjing Agricultural University
Nanjing, China, (www.njau.edu.cn)
- **Thesis Title** : Functional Expression of Insecticide Degrading/ Metabolic Enzymes in *Laodelphax striatellus*

Master of Science (M.S.)

- **Subject** : Entomology
- **Area of specialization** : Pest Control IPM
- **Duration** : July, 2006 - Dec, 2007 (awarded in Sep. 2008)
- **University** : Sher-e-Bangla Agricultural University
Bangladesh, (www.sau.edu.bd)
- **Grade achieved** : A (CGPA 3.98 out of 4.00), 1st merit position.
- **Thesis Title** : Resistance source(s) among different varieties of *Vigna radiata* against *Callosobruchus sp.* and their alternative management

Bachelor of Science in Agriculture [B.Sc.Ag. (Hons.)]

- **Subject** : Agriculture
- **Area of specialization** : Plant agriculture
- **Duration** : 2000-2003 (awarded in May 2006)
- **University** : Patuakhali Science and Technology University
Bangladesh, (www.pstu.ac.bd)
- **Grade achieved** : A (CGPA 3.86 out of 4.00), 7th merit position.

TRAINING

ACADEMIC affairs

I. Title : Foundation Training for University Teachers

Duration : Thirty three (33) days (13 April-14 May, 2014)

Institution/ Organization : Graduate Training Institute (GTI),
Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh

Training Focus : Pedagogy and Andragogy, Blooms Taxonomy, Teaching and Learning Methodology

II. Title : Curriculum: Theory and Practice

Duration : Three (3) days training (11-13, May, 2012)

Institution/ Organization : The Institute of Education and Research (IER),
Dhaka University, Bangladesh.

Training Focus : Syllabus and Curriculum, Course Content and learning outcomes

Research Training

Title : **Lab. Protocol for Basic Experiments of Molecular Biology**
Duration : Fifteen (15) days (1 December - 16 December, 2014)
Institution/ Organization : **Crop Genetics and Breeding lab.**
Nanjing Agricultural University, Nanjing 210095, Jiangsu, China
Training Focus : **Extraction (DNA, RNA, Protein, Plasmid etc), Blotting (Southern and Western), Gene Cloning and Transformation.**

Title : **Research Methodology**
Duration : Five (5) days training (16-20 February, 2014)
Institution/ Organization : **National Academy of Planning and Development (NAPD)**
Ministry of Planning, Govt. PR Bangladesh, Dhaka, Bangladesh
Training Focus : **Qualitative and quantitative research, Survey and SPSS**

ACADEMIC AND RESEARCH APPOINTMENT (EMPLOYMENT EXPERIENCE)

Nov., 2011--Till date

Assistant Professor

Department of Entomology
Patuakhali Science and Technology University
Dumki, Patuakhali, Bangladesh

Responsibilities: Teaching and Research (Lecturing undergraduate and postgraduate students, Lesson plans design, Research planning and budgeting)

Nov, 2009 -- Oct., 2011

Lecturer

Department of Entomology
Patuakhali Science and Technology University
Dumki, Patuakhali, Bangladesh

Responsibilities: Teaching and Research (Do)

July, 2008--Oct., 2009

Research Assistant

Division of Agriculture and Agro products
Uniconsultant International, Dhaka, Bangladesh (Consultancy farm)

Responsibilities: Data collection, management and analysis and Report writing

ACADEMIC EXPERIENCE

- Ex-Member, **Academic Council**, Patuakhali Science and Technology University (2011-2014)
- Ex-Member, **Editorial Board**, Journal of the Patuakhali Science and Technology University
- Ex-Member, **Inter-University Physical Education Board**, AUB, Bangladesh
- Ex-Member, **PSTU Cultural Centre**, Patuakhali Science and Technology University (2011-2014)

INT. CONFERENCE ATTEND

GCHERA World Dialogue on Education and Innovation in Agriculture and Life Science; **“Fostering Agriculture Innovation Systems Networks through the Linkage of University, Industry and Government”** organized by GCHERA (Global Confederation of Higher Education Associations for Agricultural and Life Sciences), September 20-21, 2014 at Nanjing Agricultural University (NAU), Nanjing, Jiangsu Province, P. R China.

INT. SEMINAR/LECTURE ATTEND

"Rust, Risk and Biotechnology" Presented by W. R. Coffman, Professor, Cornell University, USA, 17 September, 2014, at Int. Conference Hall, Nanjing Agricultural University (NAU), Nanjing, Jiangsu Province, P. R China.

RESEARCH EXPERIENCE

Research Projects Experience

Associate Sub-Project Member (Associate SPM)

Project Title : Self-Assessment Exercise of Agriculture faculty for enhancing educational Quality and professional development (**Project no: PSTU-2425**)
Funding agency : World Bank (UGC-AIF-HEQEP, Bangladesh)
Duration : 2012-2014 (Two years)
Status : Completed

Principal Investigator

Project Title : Control of stored product pests by using botanical insecticide
Funding agency : PGS, Patuakhali Science and Technology University
Duration : (March, 2010 – Feb. 2011) One year
Status : Completed

Principal Investigator

Project Title : Plantation of Medicinal Plants at PSTU campus and evaluation of their survivability based on morphological parameters
Funding agency : PGS, Patuakhali Science and Technology University
Duration : (July, 2012 – June, 2013) One year
Status : Completed

RESEARCH SKILLS

- Proficient in operating Data Analysis software **MSTAT-C, SPSS, GeneDoc, Primer5**
- Proficient in operating the database **NCBI, Blast and others related to M**

AWARD/SCHOLARSHIP

- National Science and Information & Communication Technology (**N.S.I.C.T.**) Fellowship, 2007-2008 for M.S. research works from **Science and Information & Communication Ministry, Bangladesh.**
- Regular Student Award for 100% attendance in the class during HSC in College.

RESEARCH PUBLICATIONS

1. **Miah, M. A.**, M. R. Ali, A. Husna and M.M.I. Mollah, 2013. Efficacy of some botanicals against pulse beetle, *Callosobruchus maculatus* (fab.) on stored green gram, *Vigna radiata*. Bangladesh J. Entomol. 23(1), 11-20.
2. **Miah, M. A.** & A. Husna. 2012. Laboratory evaluation of some mungbean (*Vigna radiata*) varieties for susceptibility to pulse beetle, *Callosobruchus maculatus* (F.). *J. PSTU*. 4(2): 43-48.
3. **Miah, M. A.** 2010. Effect of some plant products against the pulse beetle *Callosobruchus chinensis* Linn. (Coleoptera: Bruchidae) in stored mungbean. *Intl. J. BioRes*. 8(6):13-18.
4. **Miah, M. A.**, M. R. Ali, M. Z. Hassan & G. Saha. 2010. Evaluation of Mungbean *Vigna radiata* (L.) Wilczek varieties for resistance against pulse beetle, *Callosobruchus chinensis*. Bangladesh J. Seed Sci. & Tech. 14 (1& 2): 201-207.
5. Hassan, M. Z., **M. A. Miah**, M. R. Mahamud, M.N. Hasan and G. Saha. 2010. Seed quality and field performance assessment of seven genotypes of aromatic rice. *Bangladesh J. Seed Sci. & Tech*. 14 (1& 2): 105-109.
6. Saha, G., K. Sarker, T. K. Ghosh, M. Z Hassan and **Miah, M. A.** 2010. Effect of integrated nitrogen nutrition on the yield of Boro rice. *J. Bangladesh Soc. Agric. Sci. Tech.*, 7 (3& 4): 39-44.
7. Hoque, S.M.A., Hossain, M.D., Talukder, K.H. **Miah M.A.** and S. Khandker.2012. Economic performance of transplant Aman rice under different methods of land preparation and weeding regime. *Intl. J. Sust. Agric*. 4 (1): 12-20.
8. M.M.I. Mollah, M.M.Rahman, **M. A. Miah**, M. Mala and M. Z. Hassan. 2103. Effect of insecticides on the incidence and infestation of lablab bean aphid (*Aphis craccivora* Koch) under field condition. *J. PSTU*. 4(1): 53-59.
9. Afjal Hossain, Jafirullah Khan & **Mohammad Asaduzzaman Miah**. 2014. Distribution Process of Pesticides in Vegetable Production in the Southern Part of Bangladesh. Asian Business Review, Volume 4, Number 2/2014 (Issue 8)
10. A. Husna, **M. A. Miah**, S. Begum, S. Z. Silpi and M. R. Islam. 2014. Genetic Variability, Correlation and Path Co-Efficient Analysis in Bottle Gourd (*Lagenaria siceraria* L.) based on vegetative characters. *Adv. Agric. Biol*. 2 (1), 2014: 8-12

BOOK PUBLISHED

1. **Biology, Host Preference and Management of Pulse Beetles on Mungbean**

Lambert academic publishing, Germany
(ISBN Number: 978-3-659-57571-6)

PROFESSIONAL AFFILIATIONS

01. Life member, Agriculturist (Krishibid) Institution of Bangladesh
02. Life Member, Bangladesh Entomological Society
03. Member, Genetics and Plant Breeding Society of Bangladesh

REFERENCES

Dr. Zhaojun Han (PhD supervisor)

Professor and Head, Insect Physiology and Molecular biology laboratory
College of plant Protection, Nanjing Agricultural University
Weigang, Nanjing -210095, Jiangsu Province, China

Dr. Md. Razzab Ali (MS supervisor)

Professor, Department of Entomology
Faculty of Agriculture, Sher-e-Bangla Agricultural University
Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh