

Publications 2016-17 (Research Articles)

1. A Borgohain, R Das, D Bora, R Samanta, M Chutia (2016) *Lysinibacillus sphaericus* infection in muga silkworm (*Antheraea assamensis* Helfer, Lepidoptera: Saturniidae): a new report. *Sericologia*, 56(3): 170-177.
2. AK Das, B Khanikor, K Neog (2016) Biology of *Cotesia dictyoplocae* Watanabe (Hymenoptera: Braconidae) a parasitoid of *Antheraea assamensis* Helfer. *Journal of Entomology and Zoology Studies*, 4 (2): 236-240.
3. BN Sarkar, MC Sarmah, BK Singh (2016) Yield and yield contributing traits in eri silkworm, *Samia ricini* (Donovan) in different combinations, *International Journal of Ecology and Ecosolution*, 3(4), 45-49.
4. D Bhuyam, MC Sarmah, K Dutta (2017) A study on the seasonal variation of the post cocoon parameters of eri silkworm *Samia ricini* (Donovan) reared on Kesseru *Heteropenex fragrance* (Roxb.) Seem. *Biological Science*, 6(1).
5. D Mech, R Kumar, NI Singh, D Goswami, R Das, K Giridhar (2016) Impact of Front Line Demonstration on Muga Cocoon Yield at Farmers' Level in Assam, India. *Asian Journal of Agricultural Extension, Economics & Sociology*; 8(2): 1-8, 2016
6. D Mech, SC Das, M Ahmed (2016) Adoption of improved technology among the muga farmers in Golaghat district of Assam. *International Journal of Innovative Research and Advanced Studies*, 3(3): 79-83.
7. D Mech, SC Das, M Ahmed (2016) Factors influencing knowledge level of muga farmers about improved technologies. *Imperial Journal of Interdisciplinary Research*, 2(8): 1513-1518.
8. DK Gogoi, SP Sandilya, PM Bhuyan, P Dutta, K Neog, LSK Singh, TC Bora (2016) Effect of submerged culture parameters on growth and antimicrobial activity of *Paenibacillus lautus* RRT AY-2, against some pathogens of *Antheraea assamensis* Helfer. *Sericologia*, 56(2): 103-116.
9. G Subrahmanyam, JP Shen, YR Liu, G Archana, LM Zhang (2016) Effect of long-term industrial waste effluent pollution on soil enzyme activities and bacterial community composition. *Environmental Monitoring and Assessment*, 188: 1-13.
10. H Chetia, D Kabiraj, S Sharma, S Das, PV Mosahari, P Sharma, K Neog, M Deka, P Jayaprakash, U Bora (2017) *De novo* transcriptome analysis of the muga silkworm, *Antheraea assamensis* (Helfer). *Gene*, 611: 54-65.
11. J Deuri, PK Barua, MC Sarmah (2017) Effect of food plants on rearing performance and cocoon quality of Eri silkworm (*Samia ricini* Donovan). *World Journal of Agricultural Sciences*, 12 (6): 431-436.
12. J Deuri, PK Barua, MC Sarmah, SA Ahmed (2017) Biochemical attributes of the Castor and Tapioca leaves, the promising food plants of Eri silkworm (*Samia ricini* Donovan). *Net Journal of Agricultural Sciences* (Accepted).
13. JY Nale, M Chutia, P Carr, PT Hickenbotham, MR Clokie (2016) 'Get in early': biofilm and wax moth (*Galleria mellonella*) models reveal new insights into the therapeutic potential of *Clostridium difficile* bacteriophages. *Frontiers in Microbiology* (<http://dx.doi.org/10.3389/fmicb.2016.01383>).

14. L Reeta, T Shantibala, TJ Keisa, T Victor, K Chaoba (2016) Characterization of wild sericigenous insects diversity of Manipur: Mean for conservation. *Sericologia*, 50(1): 54 – 66.
15. M Chutia (2017) Silk moth biodiversity a paradise of NE India. *NE Bioline*, 2016, 2:35-37.
16. M Volf, P Pyszko, T Abe, M Libra, N Kotásková, M Šigut, R Kumar, O Kaman, PT Butterill, J Šipoš, H Abe, H Fukushima, P Drozd, N Kamata, M Murakami, V Novotny (2017) Phylogenetic composition of host plant communities drives plant-insect food web structure. *Journal of Animal Ecology* (Accepted).
17. PA Sangannavar, IS Katageri, MP Jadhav, HM Vamadevaiah (2016) In planta genetic transformation in cotton (*G. hirsutum* L.). *Journal of Farm Science*, 29 (3): 318-321.
18. R Das, K Das (2016) Effect of abiotic factors on infestation of uzifly, (*Exorista sorbillans* wiedemann) in different instar muga silkworm, *Antheraea assamensis*. *Munis Entomology and Zoology*, 11(1), 87-89.
19. R Debnath, A Yadav, VK Gupta, BP Singh, PJ Handique, R Saikia (2016) Rhizospheric bacterial community of endemic *Rhododendron arboreum* Sm. Ssp. delavayi along Eastern Himalayan slope in Tawang. *Frontiers in Plant Science*, 7:1345. doi:10.3389/fpls.2016.01345
20. R Kumar, P Chutia, M Ahmed, G Rajkhowa, NI Singh (2016) Checklist of wild silk moths of North East India (Lepidoptera: Saturniidae, Bombycidae). *Munis Entomology & Zoology*, 11 (2): 508-514.
21. Ranjana Das, K Das (2016) Effect of abiotic factors on infestation of uzifly, (*Exorista sorbillans* wiedemann) in different instar muga silkworm, *Antheraea assamensis*. *Munis Entomology & Zoology*, 11(1): 87-89.
22. S Gandotra, PM Bhuyan, DK Gogoi, A Kumar, S Subramanian (2016) Screening of nutritionally important gut bacteria from the Lepidopteran insects through qualitative enzyme assays. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* (DOI 10.1007/s40011-016-0762-7).
23. S Subharani, RS Chaudhuri, TJ Keisa, LB Devi, AK Sinha. (2016) Seasonal incidence and intensity of parasitization of uzi fly on *Antheraea proylei* under climatic zones of Manipur. *Sericologia*, 56(4): 229-234.
24. SP Sandilya, P Dutta, PM Bhuyan, R Debnath, A Changmai, K Neog, DK Gogoi (2017) *Aeromonas caviae* CSB04, a causal organism of bacterial flacherie in Muga silkworm (*Antheraea assamensis* Helfer). *Current Science*, 112(1): 32-34.
25. SP Sandilya, P Dutta, PM Bhuyan, R Debnath, A Changmai, K Neog, DK Gogoi (2017) *Aeromonas caviae* CSB04, a causal organism of bacterial flacherie in Muga silkworm (*Antheraea assamensis* Helfer). *Current Science*, 112(1): 32-34.
26. SP Sandilya, PM Bhuyan, DK Gogoi, D Kardong (2016) Phosphate solubilization and plant growth promotion ability of rhizobacteria of *Ricinus communis* growing in Assam, India. *Proceedingm of National Academy of Science (India), Section B: Biological Science*, DOI: 10.1007/s40011-016-0833-9.
27. SP Sandilya, PM Bhuyan, N Vijay, D Kardong, DK Gogoi (2017) Impact of *Pseudomonas aeruginosa* MAJ PIA03 on growth and phytonutrients of castor, a primjary host-plant of *Samia ricini*. *J. Soil Sci and Plant of Nutrition* (accepted)

28. YM Sinram, A Charterjee, MS Ranjini, A Poojari, A Nagarajan, NB Ramachandra, U Nongthomba (2016) A newly evolved *Drosophila cytorace-9* shows trade off between longevity and immune response. *Infection, Genetics and Evolution*, 44: 1-7.

Other Important publications (Books/ Booklets) on Muga and Eri culture

1. Technology Descriptors in Muga and Eri Culture (in Assamese & English)
2. Compendium of Technologies
3. Techniques & Technologies in Muga & Eri culture
4. Eri Seed Technology
5. Frequently Asked Questions (in English & Assamese)
6. Recent publication of CMER&TI (2011-12 to 2016-17)
7. Soil Health Card- A guide to farmers
8. Mati Sharthy Patra –Kisakar babe ek prodrasak (Assamese)
9. Management of diseases and pests of eri host plants and silkworm
10. Eri culture- a comprehensive profile
11. Package of practices for rearing of eri silkworm C2 breed
12. Package of Practices for Eri host plant cultivation and silkworm rearing
13. Indigenous Traditional Knowledge of Muga culture
14. Emerging areas of Seri-biotechnology
15. Monograph- Catalogue on Eri Silkworm (*Samia ricini*) Germplasm
16. Descriptor for characterization muga and eri host plants and silkworm Germ Plasm resources
17. A Decade of research in Muga, Eri and Mulberry
18. A diagnostic manual for diseases and pests of muga silkworms and their host plants
19. Muga khetir unnat padhati (in Assamese language)
20. Package of practices for rearing of eri silkworm C2 breed.
21. Package of Practices for Eri host plant cultivation and silkworm rearing.
22. Eri reshomkit khadya poudha krishi abong reshomkit palon.