

**RESEARCH PUBLICATIONS
(2012-13)**

RESEARCH PAPERS IN INTERNATIONAL/NATIONAL JOURNALS:

1. Ahmed et al (2012). Bio-Efficacy of some Insecticides against Leaf Eating Caterpillar *Cricula trifenestrata* Helfer (Lepidoptera: Saturniidae) Infesting Som *Persea bombycina* Kost. Plantation. *Academic Journal of Entomology* 5(2):94-98
2. Ahmed et al (2012). Effect of pesticide applied in tea garden on muga silkworm rearing. In Compendium of Seminar Papers in the National Seminar on *Recent trends in Research & Development in Muga Culture: Ideas to Action* held on 3-4th May, 2012 at Guwahati. pp 114-121
3. Ahmed, S.A. 2013. *Attacus atlas* L. (Lepidoptera: Saturniidae): A New Record on *Ailanthus excelsa* Roxb. from Assam, India. *World Journal of Zoology* 8 (2): 127-130 [ISSN 1817-3098]
4. Arunkumar KP, Sahu A K, Mohanty AR, Awasthi AK, Pradeep AR, Urs SR, Nagaraju J (2012) Genetic diversity and population structure of Indian golden silkworm (*Antheraea assama*). *PLOS ONE*, 7(8), e43716, pp: 1-7.
5. B. Barbaruah, M. Chutia, P. Boruah (2012) Soil hyphomycetes population dynamics in disturbed and undisturbed tropical soils of North-eastern India. *African Journal of Microbiology Research*, 6(25): 5344-5352 (South Africa, ISSN 1996-0808; Impact Factor 0.539)
6. Bagchi SN, Pandit D, Ghosh S, Mitra P, Bindroo BB (2012) Impact of TAR-IVLP for development of mulberry sericulture in eastern and north-eastern states. *Journal of Interacademia*, 16(2): 366-374.
7. Bagchi SN, Pandit D, Mitra P (2012) Sericulture: an income avenue of a seed rearer through IVLP approach. *Indian Silk*, 3 (51 old)3: 14-16.
8. Barman H, Rajan RK (2012) Muga silkworm (*Antheraea assamensis* Helfer) indoor rearing by integrated "leaf freshness technology- a new technology. *African Journal of Agricultural Research*, 7(23): 3490-3497.
9. Das R, Borgohain A. and Das. K (2013) Influence of age of castor (*Ricinus communis*) on severity of seedling blight (*Alternaria alternata*) and management. *Journal of Research in Environmental Science and Toxicology* (ISSN: 2315-5698) Vol. 2(2): 344-347.
10. Das R, Das K (2012) Trichoderma a potential antagonist to control grey blight disease of som. *Indian Silk*, 51 (4&5):12-13
11. Debaraj Y, Singh NI, Sarmah MC, Singh R (2012) Fabrication of suitable low cost bamboo mountages for eri Silkworm, *Samia ricini* Donovan. *Munis Entomology & Zoology*, 7 (1): 646-649
12. Dutta P, Sonowal P, Neog K (2012) Study on the effect of juvenile hormone-III on rearing performance and ovarian development of muga silkworm, *Antheraea assamensis*, Helfer. In: Compendium of Seminar Papers, National Seminar on "Recent Trends in Research & Development in Muga Culture – Ideas to Action", 3-4th May, 2012, Guwahati, Assam, pp. 34-38.
13. Goswami D, Singh NI (2012) Effect of Coupling Duration On Fecundity and Fertility of Muga Silk Moth, *Antheraea assama* Ww. *Indian Journal of Entomology*, 74(2);132-135

14. Goswami D, Singh NI (2012) Environmental effect on seed cocoon quality and fecundity of muga silkworm, *Antheraea assamensis* Helfer. *Indian Journal of Entomology*, 74(2): 186-188
15. Kumar KKP, Sinha AK, Singh GP, Mudhusudan KN (2012) Fuziwara method for pebrine detection in tasar silkworm improvisation for better efficiency. *Indian Silk*, 2(12): 18-19.
16. Kumar KKP, Singh GP, Sinha AK, Mudhusudan KN, Prasad BC (2012) Antiviral action of certain medicinal plants against AmCPV and their effect on cellular and biochemical changes in tasar silkworm, *Antheraea mylitta* D. *Research Journal of Medicinal Plants*, 6 (1): 92-97.
17. Chutia M, GU Ahmed (2012) Diversity, antimicrobial activities and associated microbiota of soil Penicillia from virgin forest floor. *Journal of Microbiology, Biotechnology and Food Sciences*, 1(5): 1279-1294 [Slovakia, ISSN 1338-5178].
18. Mech D, Ahmed SA (2012) Participatory profile of women in eri culture in Assam State. *European Journal of Applied Science*, 4(4): 177-181.
19. Neog K, Rana B, Das A, Rajan RK (2012) Moisture retention capacity of som and soalu genotypes as a factor on survival of early instar muga silkworms, *Antheraea assamensis* Helfer under indoor conditions. In: Compendium of Seminar Papers, National Seminar on "Recent Trends in Research & Development in Muga Culture – Ideas to Action", 3-4th May, 2012, Guwahati, Assam, pp. 77-81.
20. Neog K, Singha N, Rajan RK (2012) Variations in biochemical constituents of healthy and diseased muga silkworms, *Antheraea assamensis*, Helfer. In: Compendium of Seminar Papers, National Seminar on "Recent Trends in Research & Development in Muga Culture – Ideas to Action", 3-4th May, 2012, Guwahati, Assam. Pp. 30-34.
21. Neog K, Unni BG (2012) Muga and eri sericulture in Northeast India, a technological perspective. In: *Silkworm biology and Molecular biology techniques* (eds Unni B.G). NEIST, Jorhat pp. 3-18.
22. Singh NI, Goswami D. (2012) Food plant varietal effect on the rearing and grainage of muga silkworm, *Antheraea assamensis* Helfer. *Mun. Ent. Zool*, 7(2): 1023-1027
23. Kumar R., Rajkhowa G. (2012) Muga silkworm, *Antheraea assamensis* (Insecta: Lepidoptera: Saturniidae): rearing and insect. In: *Proceedings* (Eds. Hartmann & Weipert): Biodiversität und Naturlausstattung im Himalaya IV. – Erfurt, Germany pp. 187-190
24. Sarkar et. al. (2012) Embryo isolation and egg preservation technology of eri silkworm *Samia ricini* (Donovan) (Lepidoptera: Saturniidae). *Munis Entomology & Zoology*, 7 (2): 792-797
25. Sarkar et. al. (2012) Screening of superior ecoraces of eri silkworm *Samia ricini* (Donovan) (Lepidoptera: Saturniidae) based on better economic traits in respect of rearing and grainage performance in different seasons *J. Appl. Biosci.*, 38(1): 1-22
26. Sarmah et. al. (2012) Organic Manure Based Farming System in Muga - A Sustainable Eco-Friendly Approach. In *Compendium of Seminar Papers in the National Seminar on Recent trends in Research & Development in Muga Culture: Ideas to Action* held on 3-4th May, 2012 at Guwahati. pp 72-76
27. Sarmah et. al. (2012) Research and technology development, byproduct management and prospects in Eri culture - A review. *Munis Entomology & Zoology*, 7 (2): 1006-1016
28. Sarmah et. al. (2012) Seasonal variation in the commercial and economic characters of Eri Silkworm, *Samia ricini* (Donovan). *Munis Entomology & Zoology*, 7 (2): 1268-1271

29. Sarmah M. C. (2013).The irresistible eri silk: blended with cultural heritage of Assam. *Silk Mark Vogue*. Vol. 5 (18): 20-22.
30. Sarmah M.C. (2013) Field trial of two promising castor genotypes for eri silkworm, *Samia ricini* (Donovan) rearing. *Mun. Ent. Zool*. Vol. 8, No. 1, 162-165.
31. Singh GP, Sinha AK, Kumar KKP (2012) Jeevan Sudha: a botanical formulation for control of virosis in tropical tasar silkworm. *Indian Silk*, 3(3): 20-21
32. Singh GP, Tikader A, Gogoi AK, Borpuzari P (2012) Prick and see method for detection of pebrine. *Indian Silk*, 2(12): 18-19.
33. Singh GP, Tikader A, Gogoi AK, Borpuzari P (2012) Prick method: an alternative for detection of pebrine in muga silkworm, *Antheraea assamensis* Helfer. In: Proceeding of National Seminar on *Recent Trends in Research & Development in Muga Culture – Ideas to Action*. Guwahati 3-4 May, 2012. pp. 110 - 113
34. Singh NI, Goswami D, Khan ZMS, Rajan RK (2012) Evaluation of genetic resources of muga silkworm *Antheraea assamensis* Helfer and strategies to evolve superior breeds. In: Proceeding in the National Seminar on *Recent Trends in Muga Culture-Ideas to Action*, Held in Guwahati on 3-4th May 2012 pp. 38-43.
35. Tikader A, Gogoi AK, Pachuau L (2012) Hard work pays. *Indian Silk*, 2(12): 24-26.
36. Tunjingba Singh Y, Mazumdar-Leighton S, Saikia M, Pant P, Kashung S, Neog K, Chakravorty R, Nair S, Nagaraju J, Raghavendra Babu C (2012) Genetic variation within native populations of endemic silkworm *Antheraea assamensis* (Helfer) from Northeast India indicates need for in situ conservation. *PLoS ONE* 7(11): e49972. Doi:10.1371/journal.pone.0049972
37. Unni BG, Neog K (2012) Current trend of biotechnological and molecular research in muga silkworm, *Antheraea assamensis* Helfer and future prospects. In: Compendium of Seminar Papers, National Seminar on “*Recent Trends in Research & Development in Muga Culture – Ideas to Action*”, 3-4th May, 2012, Guwahati, Assam. Pp. 12-20.

Paper Presentation in Seminar/Conference etc.

1. Ahmed S.A., Sarmah, M.C. and Dutta, L.C. (2013) Improved rearing techniques and management of eri silkworm rearing. Souvenir, State level workshop on Strategy for improvement of muga and eri silk production, March 1, 2013, Guwahati.
2. Ahmed SA (2012) Exploitation of forest bio-resources in Vanya silk sector with special reference to eri silk. Abstract in souvenir on *International Consultative Meeting on Seribiotechnology-2012* held at IBSD, Manipur, India during 5-7 December 2012, pp, 20.
3. Ahmed, S.A., Hazarika, M. and Dutta, L.C. (2013) Impact of Environmental Pollution and Pesticides on Sericulture Industry. Souvenir, State level workshop on Strategy for improvement of muga and eri silk production, March 1, 2013, Guwahati.
4. Bagchi SN, Biswas N, Tikader A (2012) Need for training on improved muga culture practices for technology dissemination as perceived by the muga farmers of Coochbehar district in W.B.. In: Proceeding of National Seminar on *Recent Trends in Research & Development in Muga Culture – Ideas to Action*. Guwahati 3-4 May, 2012. pp-189.
5. Bagchi SN, Devi PC, Biswas N, Sahu AK, Giridhar K (2012) Constraints faced by the seed farmers of Murshidabad district in mulberry cultivation and silkworm rearing. National

Seminar on 'Recent Advances in life Science Application' organized by Zoology Dept., ABN Seal College, Coochbehar in collaboration with Agril. Entomology, UBKV, Coochbehar during 8-9th Dec, 2012. pp-41.

6. Biswas N, Bagchi SN, Saha RK, Tikader A (2012) Rearing performance of muga silkworm *Antheraea assama* Ww in repeated generations in Terai region of W.B. In: Proceeding of National Seminar on *Recent Trends in Research & Development in Muga Culture – Ideas to Action*. Guwahati 3-4 May, 2012. pp. 50.
7. Biswas N, Bagchi SN, Sahu AK, Giridhar K (2012) Studies on rearing schedule of muga silkworm *Antheraea assama* WW during jarua pre-seed crop in terai region of West Bengal. Paper presented in National Seminar on 'Recent Advances in life Science Application' during 8-9th Dec, 2012, Coochbehar, pp-42.
8. Chutia M, Bhattacharyya N (2012) Emerging infectious agents of vanya silkworm: understanding the etiology and insect-pathogen interaction. Abstract and paper presentation in the *International Consultative Meeting on Seri-biotechnology 2012* held at Institute of Bioresources and Sustainable Development (IBSD), Imphal during 5-7th December, 2012. pp.19.
9. Das R, Das K, Giridhar K (2012) Seasonal regional diversity of major foliar diseases of som plant under different agro-climatic conditions of Upper Assam. Abstract in souvenir on *International Consultative Meeting on Seribiotechnology-2012* held at IBSD, Manipur, India during 5-7 December 2012, pp 45.
10. Giridhar K, Chutia M (2012) Present status, utilization and conservation of vanya silkworm and its host plant diversity of Northeast India. Abstract and paper presentation in the *International Consultative Meeting on Seri-biotechnology 2012* held at Institute of Bioresources and Sustainable Development (IBSD) during 5-7th December, 2012. pp.4.
11. K Das, Ranjana Das and K Giridhar (2012) Effect of entomo-pathogenic microbes on non target sericigenous insect, muga silkworm *Antheraea assamensis* Helfer (Lepidoptera Saturniidae). Abstract in the *International Consultative Meeting on Seribiotechnology-2012* (ICMS 2012) held at IBSD, Imphal, pp. 45
12. Neog K. (2012) Endocrine Regulation in Muga Silkworm, *Antheraea assamensis* Helfer. Lecture delivered in the workshop on "Advanced techniques and technologies in Sericulture", CMER&TI, Lahdoigarh, Jorhat, 19 – 21 March, 2013.
13. Neog K. (2013) Molecular Techniques for Characterizing Silkworm Genetic Resources. Lecture delivered in the Workshop on "Advanced techniques and technologies in Sericulture", CMER&TI, Lahdoigarh, Jorhat, 19–21 March, 2013.
14. Kumar R and Rajkhowa G (2012) Biosystematics & DNA barcoding tools for sericigenous insects of North East India – A current need. International Consultative meeting on Seribiotechnology, December 5-7th, 2012 organized by The Director, Institute of Bioreserches and Sustainable Development (IBSD), Imphal (Manipur). A. 12
15. Rameshbabu M, Raviberma T, Srinavas C, Giridhar K, Ramalakshmi (2012) Evaluation of seasonal performance of eri silkworm (*Samia ricini*) genotypes with tapioca under semi-arid conditions of Andhara Pradesh. Paper presented in the International Seminar on "Global Meet of Biologists" held at Indian Institute of Chemical Technology, Hyderabad on 26-27th December 2012.

16. Rameshbabu M, Raviberma T, Srinavas C, Giridhar K, Ramalakshmi (2012) Studies on seasonal influence on rearing performance and certain economic traits of eri silkworm (*Samia ricini*) genotypes with castor under Andhra Pradesh conditions. Paper presented in the International Seminar on “*Global Meet of Biologists*” held at Indian Institute of Chemical Technology, Hyderabad on 26-27th December 2012.
17. Ranjana Das (2013) Cultivation and management of muga silkworm food plants for improvement of muga silk industry.“ *strategy for improvement of muga and eri silk production*” Organized by AAU , Jorhat. At Veternery college , Khanapara , Guwahati, Assam on 1st March, 2013
18. Sarmah M. C. and B.N. Sarkar (2013) Evaluation of certain high seed yielding castor for eri silkworm rearing for dual economical gain. State level workshop on strategy for improvement of muga and eri silk production in Assam held on 1st March, 2013, Guwahati.
19. Sarmah MC, Sarkar BN, Giridhar K (2012) Eri culture-its product, product diversification and by-product management. Abstract in souvenir on *International Consultative Meeting on Seribiotechnology-2012* held at IBSD, Manipur, India during 5-7 December 2012, pp, 22.
20. Unni BG, Neog K (2012) Current trend of biotechnological and molecular research in muga silkworm, *Antheraea assamensis* Helfer and future prospects. In: Compendium of Seminar Papers, National Seminar on “*Recent Trends in Research & Development in Muga Culture – Ideas to Action*”, 3-4th May, 2012, Guwahati, Assam. Pp. 12-20.
21. Unni BG, Neog K (2012) Prospects of biotechnology in non mulberry silkworm. Abstract and paper Presented in the “*International Consultative Meeting on Seri-Biotechnology, 2012*” at Institute of Bioresource & Sustainable Development (IBSD), Imphal, 5-7th December, 2012.