

## RESEARCH PUBLICATIONS

2015-16

1. Ahmed SA, Singh NI, Sarkar CR (2015) Role of forest biodiversity in conservation of non-mulberry silk in India. *Munis Entomology & Zoology*, 10 (1): 342-357.
2. Bhuyan D, Dutta K, Sarmah MC, Sarkar BN, Neog K (2015) Effect of differential feeding on eri silk worm *Samia ricini* (Donovan) and its pupal protein concentration. *International Journal of Education and Science Research*. II (5): 21-24.
3. Das AK, Khanikor B, Neog K (2016) Biology of *Cotesia dictyoplocae* Watanabe (Hymenoptera: Braconidae) a parasitoid of *Antheraea assamensis* Helfer (Lepidoptera: Saturniidae). *Journal of Entomology and Zoology Studies* 4(2): 236-240.
4. Das R, Das K (2016) Effect of abiotic factors on infestation of uzifly in different instar muga silkworm, *Antheraea assamensis* *Munis Entomology and Zoology*, 11, No. 1, January 2016
5. Dash C, Ahmed SA, Giridhar K (2015) Women empowerment through technological interventions in ericulture: A case study in Upper Assam, *Journal of Community Mobilization and Sustainable Development* , 9(2):124-128
6. Gupta A, Das AK, Neog K, Verghese A (2016). First report of *Cotesia dictyoplocae* (Watanabe) (Hymenoptera: Braconidae) from India, a larval parasitoid of *Antheraea assamensis* Helfer (Lepidoptera: Saturniidae). *Florida Entomologist* (accepted).
7. Kumar R, Chutia P, Gogoi B, Ahmed M, Rajkhowa G (2015) A new record of *Bibasis gomata* (Lepidoptera: Hesperidae) on kesseru, *Heteropanax fragrans* (Roxb.) from India. *Munis Entomology & Zoology*, 10 (2): 502-505
8. Kumar R, Mittal V, Chutia P, Ramamurthy VV (2015) Taxonomy of *Fulgoraacia melanoleuca* (Fletcher, 1939), (Lepidoptera: Epipyropidae) in India, a biological control agent of *Pyrilla perpusilla* (Walker) (Hemiptera: Lophopidae). *Zootaxa*, 3974 (3): 431–439.
9. Mech D, Kumar R, Singh NI, Goswami D, Das R, Giridhar K (2015) 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.
10. Neog K, Dutta P, Goswami D (2015) Studies on moisture retention capacity of som and soalu genotypes and its impact on survival of early instar muga silkworm *Antheraea assamensis* Helfer under indoor conditions. *World Journal of Pharmaceutical Research*, 4 (7), 876-882.
11. Sarkar BN, Sarmah MC, Ahmed SA, Giridhar K (2015) Eri silkworm rearing on perennial host plant. *Indian Silk*. 5-6 (53-54 old) 12-2: 30-32.
12. Sarkar BN, Sarmah MC, Giridhar K (2015) Grainage performance of eri silkworm *Samia ricini*(Donovan) fed on different accession of castor food plants. *International Journal of Ecology and Ecosolution*, 2(2): 17-21.
13. Sarmah MC, Sarkar BN, Ahmed SA, Giridhar K (2015) Performance of C2 breed of eri silkworm, *Samia ricini* (Donovan) in different food plants. *Entomology and Applied Science Letters* 2, 1:47-49

### **Papers presented in the conference/ seminars**

1. Ahmed SA, Dash C, Gogoi B, Sarmah MC (2015) Role of eri culture in harnessing untapped opportunities in diversified silk sector. Proceedings on UGC sponsored National Seminar on Future of Muga and Pat industry in Sualkuchi areas of Assam, 29<sup>th</sup>-30<sup>th</sup> April 2015, pp. 26-27.

2. Ahmed SA, Dash C, Sarmah MC (2016) Inclusive rural development and mitigation of environmental challenges through adoption of innovative approaches and technologies in ericulture. Abstracts National Workshop on Emerging Needs and Critical Gaps in Muga and Eri Silk Sectors organized by MSSO, Guwahati on 10-11 March, 2016 at ASAMB, Ulubari, Guwahati pp 49.
3. Ahmed SA, Gogoi B, Sarkar CR, Singh NI (2016) Role of Primary and Secondary metabolites of *Ailanthus* leaves in rearing performance of Eri Silkworm. National Seminar on Problems and Prospects of Muga and Eri Silk Sectors organized by CMER&TI, Lahdoigarh on 25-26 February, 2016 at Guwahati, pp. 40-46
4. Bhuyan D, Sarmah MC, Dutta K (2016) Seasonal variation on the rearing performance of eri silkworm, *Samia ricini* (Donovan) reared on Kesseru *Heteropanax fragrans*. National Seminar on Problems and Prospects of Muga and Eri Silk Sectors organized by CMER&TI, Lahdoigarh on 25-26 February, 2016 at Guwahati pp. 101
5. Bhuyan PM, Sandilya SP, Kardong D, Gogoi DK (2015) Isolation and characterization of cellulolytic gut-bacteria of muga silkworm reared in different localities of Assam. Paper presented in the *National Symposium on Bioresources Sustainable Development*, 28<sup>th</sup> to 29<sup>th</sup> Oct, 2015.
6. Bhuyan PM, Sandilya SP, Kardong D, Gogoi DK (2015) Isolation and characterization of cellulolytic gut-bacteria of muga silkworm (*Antheraea assamensis* Helfer) reared in different localities of Assam". Paper presented in the National symposium on "*Bioresources and Sustainable Development*" 28<sup>th</sup> to 29<sup>th</sup> October, 2015.
7. Bhuyan PM, Sandilya SP, Kardong D, Neog K, Gogoi DK (2016) Isolation and characterization of lipase producing gut-bacteria of muga silkworm (*Antheraea assamensis* Helfer) reared in different localities of Assam. Paper presented in the National Seminar on "Problems & Prospects of Muga and Eri Silk Sectors" organized by CMER&TI, CSB, Lahdoigarh, Jorhat at Indian Institute of Entrepreneurship, Lalmati, Guwahati, w.e.f. 25<sup>th</sup> to 26<sup>th</sup> February' 2016.
8. BN Sarkar et al. (2016) A study of eri silkworm *Samia ricini* (Donovan) embryonic development (National Seminar on Problems and Prospects of Muga and Eri Silk Sectors organized by CMER&TI, Lahdoigarh on 25-26 February, 2016 at Guwahati pp. 65-68.
9. Changmai A, Dutta P, Gogoi DK, Neog K (2016) Antimicrobial Peptides: Role in Silkworm Immunity. Paper presented in the National Seminar on "Problems & Prospects of Muga and Eri Silk Sectors" organized by CMER&TI, CSB, Lahdoigarh, Jorhat at Indian Institute of Entrepreneurship, Lalmati, Guwahati, w.e.f. 25<sup>th</sup> to 26<sup>th</sup> February' 2016
10. Chutia M, Sahota J, Nale JY, Clokie MRJ (2016) Developing *Galleria* model for assessing phage therapy in *Pseudomonas aeruginosa* infection. Paper presented in 'Bacteriophage 2016' conference organized by *EuroSci* held at O<sub>2</sub> Arena, London during 19-21<sup>st</sup> January 2016, Abstract book p. 11-12
11. Gogoi B, Ahmed SA (2016) Effect on Growth and Nutrition of Eri Silkworm, *Samia ricini* (Donovan) with reference to *Ailanthus* Germplasm. National Seminar on Problems and Prospects of Muga and Eri Silk Sectors organized by CMER&TI, Lahdoigarh on 25-26 February, 2016 at Guwahati, pp. 69-73
12. Neog K, Changmai A, B. Choudhury (2016) Evaluation of different host plants in terms of biochemical properties, rearing performance and cocoon characters of muga silkworm *Antheraea assamensis* Helfer. Paper presented at 103<sup>rd</sup> Conference of Indian Science Congress Association held at Mysore, 3-7<sup>th</sup> January, 2016.

13. Neog K, Changmai A, Choudhury B (2015) Evaluation of different host plants in terms of biochemical properties, rearing performance and cocoon characters of muga silkworm *Antheraea assamensis* Helfer. Paper accepted for Oral Presentation at 103<sup>rd</sup> Conference of Indian Science Congress Association to be held at Mysore, 3-7<sup>th</sup> January, 2016.
14. Neog K, Changmai A, Choudhury B (2015) Evaluation of different host plants in terms of biochemical properties, rearing performance and cocoon characters of muga silkworm. Paper accepted for Oral Presentation at 103<sup>rd</sup> Conference of Indian Science Congress Association to be held at Mysore, 3-7<sup>th</sup> Jan 2016.
15. Neog K, Choudhury B (2016) Field efficacy of *Terminelia chebula* based bioformulation "Muga Heal" for healthy larvae and production of quality silk fibre by muga silkworm. Paper presented in the National Seminar on Emerging needs and Critical Gaps in Seed production in Muga & Eri Sector organized by MSSO, CSB, Guwahati w.e.f. 10<sup>th</sup> & 11<sup>th</sup> March, 2016.
16. Neog K, Choudhury B (2016) Preliminary report on the effect of phytoecdysteroid Sampoorna on synchronization of maturation and cocoon characters in silkworm *Antheraea assamensis*, Helfer. Paper presented in the National Seminar on "Problems & Prospects of Muga and Eri Silk Sectors" organized by CMER&TI, CSB, Lahdoigarh, Jorhat at Indian Institute of Entrepreneurship, Lalmati, Guwahati, w.e.f. 25<sup>th</sup> to 26<sup>th</sup> February' 2016
17. Neog K, Dutta P, Gogoi D, Mech D, Choudhury B (2016) Insect stimulants on the growth, development and productivity of muga silkworm, Paper presented in the National Seminar on Emerging needs and Critical Gaps in Seed production in Muga & Eri Sector organized by MSSO, CSB, Guwahati w.e.f. 10<sup>th</sup> & 11<sup>th</sup> March, 2016.
18. Neog K, Giridhar K (2015) Field efficacy of juvenile hormone analogue methoprene on the growth, cocoon characters and fecundity of muga silk worm *Antheraea assamensis* Helfer (Lepidoptera: Saturniidae). Paper accepted for Best Poster Award Presentation at 103<sup>rd</sup> Conference of Indian Science Congress Association to be held at Mysore, 3-7<sup>th</sup> January, 2016.
19. Neog K, Giridhar K (2015) Field efficacy of juvenile hormone analogue methoprene on the growth, cocoon characters and fecundity of muga silk worm. Paper accepted for Best Poster Award Presentation at 103<sup>rd</sup> Conference of Indian Science Congress Association to be held at Mysore, 3-7<sup>th</sup> Jan 2016.
20. Sandilya SP, Bhuyan PM, Kardong D, Neog K, Gogoi DK (2016) *Bacillus firmus* MAJ PSB12, A P solubilizing rhizobacteria and its plant growth promoting ability in eri silkworm host plant castor (*Ricinus communis* L). Paper presented in the National Seminar on "Problems & Prospects of Muga and Eri Silk Sectors" organized by CMER&TI, CSB, Lahdoigarh, Jorhat at Indian Institute of Entrepreneurship, Lalmati, Guwahati, w.e.f. 25<sup>th</sup> to 26<sup>th</sup> February' 2016.
21. Sarkar BN et al (2016) Role of abiotic factor in eri silkworm *Samia ricini* (Donovan) egg desiccation and hatching failure during summer season Abstracts National Workshop on Emerging Needs and Critical Gaps in Muga and Eri Silk Sectors organized by MSSO, Guwahati on 10-11 March, 2016 at ASAMB, Ulubari, Guwahati pp. 31.
22. Sarmah MC, Sarkar BN, Ahmed SA, Choudhury B (2016) New wooden collapsible strip type mountage for eri- a breakthrough. National Workshop on Emerging Needs and Critical Gaps in Muga and Eri Silk Sectors organized by MSSO, Guwahati on 10-11 March, 2016 at ASAMB, Ulubari, Guwahati.
23. Sarmah MC, Sarkar BN, Ahmed SA, Choudhury B (2016) Promotion of eri culture in North East India –a road map. National Seminar on Problems and Prospects of Muga and Eri Silk Sectors organized by CMER&TI, Lahdoigarh on 25-26 February, 2016 at Guwahati pp 28-34.

## Technical bulletins / leaflets/booklets

1. Kendriya muga eri o prasikshan pratitshan, Kaljoi
2. Eri hutanere toiyari vashra hamogri aru iyar bybakxiyik dikh.
3. এৰী পলুৰ উন্নত জাত ছী-2 পালনৰ উন্নত পদ্ধতি Eri polur natun unnat jat "C2" palonor unnat paddhati
4. চোম গছৰ বৈজ্ঞানিক কৃষি পদ্ধতি
5. Som gasor baigyanik krishi paddhati
6. মুগা পলুৰ উন্নত কাৰিকৰী কৌশল Muga polu palonor unnat karikori kaushal
7. নিৰোগী মুগা সচ উত্পাদন প্ৰণালী Nirogi muga sans utpadon pranali
8. উজি মাখিৰ জৈবিক নিয়ন্ত্ৰন
9. Uzi makhir jaibik niyantran
10. মুগা খাদ্য বৃক্ষৰ মজা খোৱা পোক নিয়ন্ত্ৰন
11. Muga khadya brikhyar majja khowa puk niyantran
12. এৰী পলুৰ খোলা সজাৰ উন্নত আহিলা
13. Eri palur khola bandhar unnat aahila
14. এৰী পলুৰ খাদ্য বৃক্ষ ৰোপন অৰু প্ৰতিপালন পদ্ধতি
15. Eri polur khadya brikhya rupon aru pratipalon paddhati
16. মিথোপ্ৰীণ ব্যৱহাৰৰ জৰিয়তে মুগা চকৰীৰ পৰা অধীক কনি উত্পাদন পদ্ধতি
17. Mithoprin biywahar jariyate muga chakarir para adhik kani utpadan paddhati
18. মুগা পালনত ৰোগ নিবাৰনৰ অৰ্থে পৰিশোধকৰ প্ৰস্তুতকৰন অৰু ব্যৱহাৰ
19. Muga palanat rog nibaranar arthe parihodhokor prastutkaran aru bibyahar
20. Utpadamkham C-2 sankar jator eripolu palon
21. Eri hutare toiyari basra hamgri aru iyar byaboyashik dikh

## Book/booklets/ news items

1. Singh BK, Ahmed SA, Velayudhan K, Singha BB, Sahu M, Choudhury R, Baruah NB, Das, Bitopan B (2015) Ericulture- at a glance. Published by MSSO, Central Silk Board, Guwahati
2. Proceedings of National Seminar on Problems and Prospects of Muga and Eri Silk Sectors Edited by S.A. Ahmed, R. Kumar, K. Neog and M.C. Sarmah (2016), Published by Director, CMER&TI, Lahdoigarh
3. U. Hazarika and Vinod Kumar (2016) Soil Sampling and Analysis (A Practical Manual for Soil Fertility Analysis).
4. M.D. Senapati (2015) Eri Awareness. The Asomia Khabar, 14<sup>th</sup> July,2015
5. M.D.Senapati (2015) Adhunik Padhatire Eri Polu Palan. The Asomia Khabar, 8<sup>th</sup> August,2016

## Newsletters

- 1) CMER&TI Sericultural News: Vol. 16: January-June, 2015 and Vol. 17 July-December, 2015
- 2) CMER&TI **Hindi Newsletter**: Vol. 3; January-June, 2014 and Vol. 4 July-December, 2015.