

Research Publications of CMER&TI, During 2011-12.

1. Ahmed SA, Sarmah MC, Rajan RK (2012) New report of syonaka (*Oroxylum indicum* (L.) Benth. ex Kurz.) as a food plant of eri silkworm, *Samia ricini* Donovan (Lepidoptera: Saturniidae) in Assam, India. *Munis Entomology and Zoology*, 7(1) 650—653.
2. Chanu OP, Singh NI (2011) Effect of ⁶⁰Co gamma radiation on eggs of tasar silkworm, *Antheraea proylei* (Lepidoptera). *Journal of Experimental Sciences*, 2(9): 19-23.
3. Chanu OP, Singh NI (2011) Radiation studies on the commercial parameters of the tasar Silkworm, *Antheraea proylei* (Lepidoptera). *Journal of Experimental Sciences*, 2(9): 31-35.
4. Chattopadhyay S, Tikader A, Das NK (2011) Nondestructive, simple and accurate model for estimation of the individual leaf area of Som (*Persea bombycina*). *Photosynthetica*, 49(4): 627-632.
5. Das R, Neog K, Pamehgam M, Borua UC (2012) Effect of vermicompost application on leaf yield of mulberry and cocoon characters of silkworm, *Bombyx mori* in the North Eastern region of India. *Journal of Indian Academy of Sericulture*, 15 (1): 49-52
6. Debaraj Y, Singh NI, Sharma MC, Singh R (2012) Fabrication of suitable low cost bamboo mountages for eri silkworm *Samia ricini* Donovan. *Munis Entomology and Zoology*, 7(1): 646-649.
7. Debaraj Y, Singh NI, Singh LS, Singh R (2011) Studies on hybrid vigour in different crosses of the eri silkworm, *Samia ricini* Donovan and identification of superior hybrids. *Sericologia*, 51(2): 237-244.
8. Goswami D, Handique PK, Singh NI, Gogoi S (2011) Selection of superior genotypes of som, *Persea bombycina* Kost. through bioassay. *Journal of Non-Timber Forest Products*, 18(1): 13-17.
9. Goswami D, Singh NI (2012) Bioecological Studies of Indian Golden Silk Moth, *Antheraea assamensis* Helfer (Lepidoptera: Saturnidae). *Munis Entomology and Zoology*, 7(1): 274-283.
10. Ibsorani Devi K, Singh LS, Singh NI, Dutta K, Chaoba Singh K (2011) Biodiversity of sericigenous insects and their food plants in Manipur. *The Ecoscan*, 5(1&2): 65-68.
11. Neog K, Das A, Unni BG, Ahmed GU, Rajan RK (2011) Studies on secondary metabolites of som (*Persea bombycina* Kost), a primary host plant of muga silkworm (*Antheraea assamensis* Helfer). *International Journal of Pharm Tech Research*, 3 (3): 1441-1447
12. Neog K, Unni BG, Ahmed GU (2011) Studies on the influence of host plants and effect of chemical stimulants on the feeding behaviour in the muga silkworm, *Antheraea assamensis*, Helfer. *Journal Insect Science*, 11:139 (IF: 0.947)
13. Rajkhowa G, Kumar R, Rajan RK (2011) Studies on the long-term preservation method of muga Cocoon (*Antheraea assamensis* Helfer) at low temperature. *Munis Entomology and Zoology*, 6 (2): 815-818
14. Saikia R, Gogoi DK, Mazumder S, Yadav A, Sarma RK., Bora TC, Gogoi BK (2012) *Brevibacillus laterosporus* strain BPM3, a potential biocontrol agent isolated from a natural hot water spring of Assam, India. *Microbiological Research*, 166: 216-225 (IF 2.308)
15. Sarmah MC (2011) Eri pupa: a delectable dish of North East India. *Current Science*, 100 (3), 10. (IF 0.897).
16. Sarmah MC, Chutia M, Neog K, Das R, Rajkhowa G, Gogoi SN (2011) Evaluation of promising castor genotype in term of agronomical and yield attributing traits, biochemical properties and

rearing performance of eri silkworm, *Samia ricini* (Donovan). *Industrial Crops and Products*, 34:1439– 1446 (IF 2.469).

17. Singh HR, Unni BG, Neog K, Bhattacharyya M (2011) Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) and random amplified polymorphic DNA (RAPD) based genetic variation studies in eri silkworm (*Samia cynthia ricini* Lepidoptera: Saturniidae). *African Journal of Biotechnology*, 10 (70): 15684-15690
18. Singh NI, Goswami D, Khan ZMS, Rajan RK (2012) Genetic variability, heritability and correlation of a few quantitative characters in *Antheraea assamensis* Helfer-an Indigenous Indian silkworm. *Indian Journal of Genetics*, 72(1): 97-99.
19. Tikader A (2012) A new report on disease incidence in wild silkworm *Cricula trifenestrata* Helfer. *Geobios*, 38 (4): 245 – 248
20. Tikader A (2011) Distribution, diversity, utilization and conservation of mulberry (*Morus* spp.) in North West of India. *The Asian and Australian Journal of Plant Science and Biotechnology*, 5(1): 67-72.
21. Tikader A (2012) A new record of *Brachymeris tibialis* (Walker) (Hymenoptera: Chalcididae) on *Cricula trifenestrata* (Helfer) from India. *Munis Entomology and Zoology*, 7(1): 222-225.
22. Tikader A (2012) Biodiversity of wild silkworm *Theophila religiosae* Helfer and its conservation. *Scientific Bulletin of National Biodiversity Authority*, Govt. of India (In Press).
23. Tikader A (2012) *Brachymeria tibialis* Walker a parasitoid on *Cricula trifenestrata* Helfer – A new report. *Geobios*, 39(1): 17-20.
24. Tikader A (2012) Incidence of fire ant (*Oecophylla smaragdina* Fabricius) on muga silkworm host plants. *Geobios* (In Press)
25. Tikader A, Pachuau L, Gogoi AK (2012) Biodiversity in *Cricula trifenestrata* Helfer – golden silk producing wild silk moth in India. *Scientific Bulletin of National Biodiversity Authority*, Govt. of India (In Press).
26. Unni BG, Singh HR, Neog K, Bhattacharya M, Wann SB (2011) Isolating silkworm genomic DNA without liquid nitrogen suitable for marker studies. *African Journal of Biotechnology*, 10 (55): 11365-11372.

Book Chapters/Proceedings of the Seminer/Conference/Symposium

01. Ahmed SA, Rajan RK (2011) Exploration of vanya silk biodiversity in Northeastern region of India: sustainable livelihood and poverty alleviation. International Conference Proceedings of PSRC, December 23-24, 2011, Bangkok, Thailand: 485-489.
02. Biswas N, Bagchi SN, Saha RK, Tikader A, Chaudhuri N (2011) Studies on the rearing and grainage performance of *Antheraea assama* Ww during bhodia crop in terai region of West Bengal with relation to altering ambient temperature. International Seminar on Bioresources and Human Sustenance, Cotton College, Gauhati, held on 20-22nd October, 2011, pp. 192-193.
03. Das K and Sarmah MC (2011) Innovation and dissemination of technologies in muga and eri sericulture – role of CMER&TI. In: Ideas to Action (edited by Baruah et al), NEIST, Jorhat. pp 36-46.
04. Das K, Goswami D, Dhar NJ, Singh NI, Sankar M and Chutia M (2011) Muga silkworm (*Antheraea assamensis* Helfer): Technology intervention and silkworm production. In: *Emerging areas of*

Seri-biotechnology (course material /invited talks) edited by Chutia and Das. CMER&TI, Lahdoigarh, pp. 47-56.

05. Das R, Das K, Jha DK (2011) Epidemiology of *Pestaletiopsis disseminata* causing grey blight disease of muga food plant Som. Proceeding of Microorganism and plant health organized by Indian society of Phytopathology at Gauhati University, Guwahati, Assam, pp. 41-43
06. Das Ranjana, Das K, Jha DK (2011) Epidemiology of *Pestaletiopsis disseminata* causing grey blight disease of muga food plant som. Proceeding of Microorganism and plant health organized by Indian society of Phytopathology at Gauhati University, Guwahati, Assam, pp. 41-43.
07. Handique PK (2011) Muga host plant cultivation and management in North East India. In: *Emerging areas of Seri-biotechnology* (course material /invited talks) edited by Chutia and Das. CMER&TI, Lahdoigarh, pp. 1-19.
08. Mishra SN, Tikader A, Gogoi AK (2011) Cricula Silk: A new golden silk fiber from North-East India and its potential: a study. International Seminar on Bioresources and Human Sustenance, Cotton College, Gauhati, held on 20-22nd October, 2011, pp. 207- 208.
09. Naidu BV, Tikader A, Reddy MP, Reddy PS, CS Raju (2011) Evaluation of elite mulberry genetic resources for abiotic stress under semi-arid conditions of Andhra Pradesh. In National Conference on Sericulture Innovation: before and beyond held at CSR&TI, Mysore on 28-29th January 2011, pp.12-13.
10. Sahu AK, Gogoi PR, Biswas D, Sahu M, Rajan RK (2011) Conservation of wild genetic resources of muga silkworm *Antheraea assamensis* Helfer and their sustainable use. International Seminar on Bio-resources and Human Sustenance, Cotton College, October 2011 (In press).
11. Sarkar BN, Sarmah, MC, Ahmed S., Senapati M and Rajan RK (2011) Improved Eri Culture: Current trends in Research and Development. In: *Emerging areas of Seri-biotechnology* (course material /invited talks) edited by Chutia and Das. CMER&TI, Lahdoigarh, pp 32-46
12. Sarmah MC, Gogoi DK (2011) A focus on Eri Silkworm host plant bio-resources and development through technological intervention and prospects in biotechnology-hitherto. In: *Emerging areas of Seri-biotechnology* (course material /invited talks) edited by Chutia and Das. CMER&TI, Lahdoigarh, pp. 20-31.
13. Singh NI, Goswami D, Rajan RK (2011) Molecular approach in silkworm breeding for sustainable sericulture. In: *Emerging areas of seri-biotechnology* (Course material /invited talks) edited by M. Chutia and K. Das, CMER&TI, Lahdoigarh pp 85-101.
14. Tikader A, Rajan RK (2011) Conservation of wild Seri-biodiversity and its utilization. International Seminar on Bioresources and Human Sustenance, Cotton College, Gauhati, held on 20-22nd October, 2011, pp. 105-106.
15. Tikader A, Rajan RK (2011) Conservation of wild Seri-biodiversity and its utilization. Paper presented in International Seminar on Bioresources and Human Sustenance, Cotton College, Gauhati, held on 20-22nd October, 2011, pp. 105-106.
16. Unni BG, Neog K (2011) Recent trend of biotechnological and molecular research in non-mulberry silkworm, *Antheraea assamensis* Helfer. 22nd Congress of the International Sericultural Commission, 14th–18th December, 2011, Thailand. pp. 155-161.

Technical report/Popular article

1. Gogoi AK, Pachua L, Tikader A (2011) A report of demonstration programme of grainage operation, identification of Pebrine disease and Stem borer control at Goalpara. *Indian Silk*, 1(9): 77.
2. Gogoi AK, Pachua L, Tikader A (2011) A report on technical awareness programmed at P2 Farm, Jalah (BTC) Assam. *Indian Silk*, 2 (50 old) 3: 32.
3. Gogoi AK, Tikader A (2011) A report on field day and exhibition at Morigaon. *Indian Silk*, 1(49 old), 12: 33-34.
4. Sarmah M.C. and Barah, A (2011) Vegetative propagation of kesseru- An ITK approach. *Indian Silk*, 1. 49(old), 10, 16-17
5. Sarmah MC (2011) Report on the workshop on "Improved technologies of Eri culture for higher productivity" organized by CMER&TI, Lahdoigarh. *Indian Silk*, 2, 50 (old): 4
6. Sarmah MC (2011) Report on Vanya Reshom Krishi Mela. *Indian Silk*, 2, 50 (old) 2: 27.
7. Sarmah MC (2011) Rooted in Tradition. *The Assam Tribune*, 31st July.
8. Sarmah MC, Dhar NJ (2012) Andaman Island: a potential growing region of Muga host plant, Soalu (*Litsea polyantha* Juss). *Indian Silk*, 2. 50(old) 9: 22-23.
9. Sarmah MC, Goswami D, Mech D, Ahmed SA (2012) Beneficiaries Empowerment Programme at Aizawal, Mizoram. *Indian Silk*, 2 (11) (50 old): 41-42.
10. Tikader A (2011) "Occurrence of different diseases in wild silkworm *Cricula trifenestrata* Helfer – A new report from India". The Congress was held at Thailand from 14th – 18th December, 2011.
11. Tikader A (2011) Letter to the Editors on Mulberry to control human diabetes. *Indian Silk*, 2(1):2.
12. Tikader A (2011) Report on Visit of Director (Silk), Ministry of Textiles at RMRS, Boko. *Indian Silk*, 2(1):25.
13. Tikader A (2011) Report on Visit of Secretary Textiles, MOT, at RMRS, Boko, *Indian Silk*, 2(2):28.
14. Tikader A, Gogoi AK (2011) A report on field day and exhibition at Santipur, Bamunigaon, Kamrup Assam. *Indian Silk*, 2(50 old)8: 33-34
15. Tikader A, Gogoi AK (2011) Report on Krishi mela at Deomornoi, Mangaldoi, Assam. *Indian Silk*, 2(1):28.
16. Tikader A, Gogoi AK, Pachua L (2011) A report on technical awareness programmed & demonstration Stem borer control, application on Lahdoi and uses of bamboo mountage at Jarapara Kamrup Assam. *Indian Silk*, 2(50 old) 2: 30.
17. Tikader A, Singh GP, Gogoi AK (2012) A report of demonstration programme of grainage operation, identification of Pebrine disease at Batakushi and RMRS, Boko. *Indian Silk*, 2 (11): 43

Extension Bulletin

1. Ahmed SA (Eds.) Eri huta kotar unknot padhati (2012)
2. Ahmed SA, Chutia M (2012): Integrated Pest Management in Castor Plantation
3. Sarmah MC (2012) A comprehensive Package of Practices of Kesseru cultivation and its management.

4. Sarmah MC and Siddique Ahmed (2012) Kesseru brikhyar rupan aru pratipalanar britista pranali
5. Singha BB (2011) C2: A New productive Eri Silkworm breed.
6. Singh GP, Gogoi AK (2012) Muga silkworm mother moth examination for detection of Pebrine.
7. Singh GP, Gogoi AK (2012) Disease management during muga cocoon preservation and grainage operation.
8. Singh GP, Gogoi AK (2012) Disease management during muga silkworm rearing.
9. Singha BB, Gogoi DK (2011) Package of practices of Ericulture.

Books:

1. Chutia M, Das K (2011) Emerging areas of Seri-biotechnology (edited Book). CMER&TI, Lahdoigarh
2. Sarkar BN, Sarmah MC (2012) Eri Seed Production - A Users Manual (edited book). CMER&TI, Lahdoigarh.
3. Sarkar BN, Sarmah MC (2012) Eri Seed Production - A Users Manual (edited book by Sarkar and Sarmah). CMER&TI, Lahdoigarh, Jorhat, Assam