

## List of publications (2013-14)

### Research articles/ Book Chapter

- 1) Ahmed SA, Hazarika M, Dutta LC (2013) Impact of environmental pollution and pesticides on sericulture industry. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. pp 80-90.
- 2) Ahmed SA, Gogoi B, Sarmah MC, Sarkar CR (2013) Utilization of *Ailanthus* germplasm in eri silkworm (*Samia ricini* Donovan) rearing: A new dimension of sustainability in ericulture. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the theme “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp 193-201.
- 3) Bhuyan PM, Sandilya SP, Gogoi DK, Neog K, Subramanian S (2014) Isolation and characterization of gut-bacteria of muga silkworm (*Antheraea assamensis* Helfer) collected from different localities of Assam. *Sericologia* (Accepted)
- 4) Choudhury B, Kumar R, Chutia P, Rajkhowa G (2014) Host infestation potentiality of *N. thymus* to control the uzifly of muga silkworm, *Antheraea assamensis* Helfer – A bio-control tool for controlling uzi fly. *Biological Forum – An International Journal*, 6(1): 1-4
- 5) Das R, Borgohain A, Das K (2013) Effect of inoculation method and plant age on seedling blight of castor caused by *Alternaria ricini* and its management with fungicides. *Indian Journal of Mycology and Plant Pathology*, 43(3): 336-340
- 6) Das R, Sankar M, Choudhury B, Mech D (2013) Delicacy in sericulture. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the theme “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp. 256-260
- 7) Das R, Sankar M, Choudhury B, Mech D, Choudhury BN (2013) Role of sericulture development schemes in woman empowerment in Assam with special reference to muga and eri culture. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the theme “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp. 155-158.
- 8) Deuri J, Sarmah MC, Azad P (2013) Ericulture-a socio-economic solution for solving poverty and unemployment. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the theme “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp 126-130.
- 9) Dutta P, Dutta P, Rai AK, Neog K (2013) Improvement of rearing performance in muga silkworm *Antheraea assamensis* with hormone treatment. *Munis Entomology Zoology*, 8(2), 767-771.
- 10) Gogoi SN, Debaraj Y, Sarmah MC, Bindroo BB (2013) Phenology of wild castor, *Ricinus communis* L and its palatability for eri silkworm, *Samia ricini* (Donovan). *Uttar Pradesh Journal of Zoology*, 33(1):75-79

- 11) Goswami D, Singh NI, Ahmed M, Giridhar K (2013) Embryonic development of muga silkworm, *Antheraea assamensis* Helfer Lepidoptera: Saturniidae. *Munis Entomology and Zoology*, 8(2), June' 2013
- 12) Goswami D, Singh NI, Dhar NJ, Shankar M (2013) Studies on Ex-situ conservation of wild silk moths of muga silkworms, *Antheraea assama* Ww. In: Proceedings of the National Conference on *Sericulture Innovations before and Beyond 2011, R&D Advances in Indian Sericulture* (Edn. Bindoo & Kirsur) held on 28<sup>th</sup>-29<sup>th</sup> January, 2011 at Mysore. Pp 350-353.
- 13) Hayat M, Singh LRK, Kumar R (2013) A new species of encyrtid (Hymenoptera) on gall-inducing psyllids (Hemiptera) from India. *Oriental Insects*, 47 (2-3): 150-154
- 14) Kumar R, Dutta P (2013) Demonstration of hyperparasitoid, *N. thymus* for controlling uzi fly in Muga. *Indian Silk*, 4 (52 old) 4-5: 49-50.
- 15) Kumar R, Kumar V (2013) A new species of genus *Macdunnoughia* Kostrowicki (Lepidoptera: Noctuidae) from India. *Munis Entomology & Zoology*, 8 (2): 876-882
- 16) Kumar R, Mittal V, Kumar N, Ramamurthy VV (2013) Taxonomic aid to major crambid vegetable pests from North India (Lepidoptera: Crambidae). *Munis Entomology & Zoology*, 8 (2): 858-875
- 17) Madhusudhan K.N., Sandhya Kumari, Sinha A.K., Singh G.P. and Kirankumar K.P. (2013) Identification of carbon source to enhance multiplication of *Bacillus laterosporus* utilized for the control of bacterial diseases of tropical tasar silkworm. *International Journal of Research in Pure and Applied Microbiology*, 3 (1):8-10
- 18) Mech D, Dhar NJ, Das R (2013) Sustainable income generation through cluster approach in eri culture. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the theme "Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society" (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp. 120-125.
- 19) Neog K, Ahmed GU, Unni BG, Dutta P, Gogoi DK, Giridhar K (2012) Variation in biochemical composition of different host plants and its effect of on the rearing performance and cocoon characters of muga silkworm *Antheraea assamensis* Helfer. *Sericologia*, 53 (3&4): 207-218.
- 20) Neog K, Unni BG, Dey S, Renthlei CZ, Eswara Reddy SG, Dutta P, Sonowal P, Rajan RK (2014) Studies on the endocrine regulation of reproduction and ultra structure of brain and reproductive organs of muga silkworm *Antheraea assamensis*, Helfer (Lepidoptera: Saturniidae). *World Journal of Pharmacy and Pharmaceutical Sciences* (accepted).
- 21) PM Bhuyan, SP Sandilya and DK Gogoi (2013) Phyllosphere microflora of muga silkworm host plant *Persea bombycina* Kost (Som) leaves in Jorhat district of Assam, India. *International Research Journal of Biological Sciences*, 2(12):60-65.
- 22) Rajkhowa G, Kumar R, Shankar M (2013) Studies on the double step preservation method for long term low temperature preservation of seed cocoons of muga silkworm *Antheraea assamensis*. In: Proceedings of the National Conference on *Sericulture Innovations before and Beyond 2011, R&D Advances in Indian Sericulture* (Edn. Bindoo & Kirsur) held on 28<sup>th</sup>-29<sup>th</sup> January, 2011 at Mysore. pp.348-349
- 23) Sandilya SP, Bhuyan PM, Gogoi DK (2013) Seasonal variation of soil biological properties in Castor (*Ricinus communis* L.) cultivated soils: A possible index towards soil fertility. *Research Journal of Agriculture and Forestry Sciences*, 1(9):1-7.
- 24) Sarkar BN, Sarmah MC, Giridhar K (2013) Eri silkworm germplasm conservation and development of breeds/hybrids. Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop

on the theme “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp. 211-217.

- 25) Sarmah MC (2012) Eri pupa-A delectable dining dish. In: *Food Trail* Discovering Food Culture of Northeast India (Eds. Dutta A). Published by NEZCC in Association with Assam Book Hive, under the documentation scheme of the Ministry of Culture, Government of India. pp. 67-70.
- 26) Sarmah MC (2013) Eri silkworm host plant bio-resources: agro-technology and strategy for development. In: Proceedings on 1<sup>st</sup> Bodoland National Seminar cum Workshop on the theme “*Sericulture Industry and its role in the Socio-Economic Upliftment in the Rural Society*” (eds. Dutta et al) held on 10<sup>th</sup> & 11<sup>th</sup> August, 2013 in the Department of Economics, at Bodoland University, Kokrajhar. Pp 100-109.
- 27) Sarmah MC, Ahmed SA, Sarkar BN (2013) New pests of kesseru, *Heteropanax fragrans* (Roxb.) a perennial host plant of for eri silkworm, *Samia ricini* (Donovan). *Munis Entomology and Zoology*, 8(2): 900-901.
- 28) Sarmah MC, Neog K, Das A, Phukan JCD (2013) Impact of soil fertility and leaf nutrients status on cocoon production of muga silkworm, *Antheraea assamensis* (Helfer) in potential muga growing areas of Assam, India. *International Journal of Current Microbiology and Applied Science*, 2(9): 25-38.
- 29) Shankar M, Singh NI, Goswami D, Rajkhowa G (2013) Isolation of a diapause line of muga silkworm *Antheraea assamensis* Helfer. In: Proceedings of the National Conference on *Sericulture Innovations before and Beyond 2011, R&D Advances in Indian Sericulture* (Edn. Bindoo & Kirsur) held on 28<sup>th</sup>-29<sup>th</sup> January, 2011 at Mysore. Pp 360-362.
- 30) Singh GP, Gogoi AK, Sahu AK, Girdhar K (2013) Efficacy of disinfectants against diseases in muga silkworm, *Antheraea assamensis* Helfer. *Uttar Pradesh Journal Zoology*, 33(3): 241 246

#### **Research papers in Seminar/Symposium/ conferences**

- 1) Ahmed SA, Gogoi B, Sarmah MC (2013) *Ailanthus* tree: A medicinally important perennial flora, its conservation and utilization in eri culture. Abstracts: National Conference on Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development (RAMBSWERD-2013) held on 24-26<sup>th</sup> October, 2013 at KSSRDI, Bangalore.
- 2) Gogoi AK, Singh GP, Sahu AK, Girdhar K (2013) Screening of foliar diseases tolerant varieties of som, *Persea bombycina* - a primary food plant of muga silkworm, *Antheraea assamensis* Helfer. Paper presented in the 1<sup>st</sup> Bodoland National Seminar cum Workshop on *Sericulture Industry and its Role in the Socioeconomic Upliftment in Rural Society* 10-11<sup>th</sup> August 2013 at Bodoland University Kokrajhar.
- 3) Bhuyan PM, Sandilya SP, Dutta P, Neog K, Gogoi DK (2013) Study of phyllosphere microflora of muga silkworm host plant *Persea bombycina* Kost (Som) leaves in four farms of Jorhat District, Assam. Paper presented in the National Seminar on ‘*Research in Biological Sciences for sustainable development by the application of Mathematics and allied branches*’ Bahona College, Jorhat, Assam w.e.f 10<sup>th</sup> – 11<sup>th</sup> May, 2013.
- 4) Biswas N, Bagchi SN, Sahu AK, Giridhar K (2013) Studies on the rearing performance of muga silkworm *Antheraea assamensis* Helfer during commercial seasons in terai region of West Bengal. Paper presented in 1<sup>st</sup> Bodoland National Seminar cum workshop on Sericulture

industry and its role in the socioeconomic upliftment in rural society, Kokrajhar, BTAD, Assam on 10-11 August, 2013.

- 5) Sarkar BN, Sarmah MC, Giridhar K (2013) Wild silkmoth *Attacus atlas* L reared on *Litsaea monopetala* Juss. Abstracts: National Conference on Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development (RAMBSWERD-2013) held on 24-26<sup>th</sup> October, 2013 at KSSRDI, Bangalore. Pp 64.
- 6) Dutta P, Das R (2013) Study on the scanning electron microscope of *Nesolynx thymus*, a hyper parasitoid of uzi fly in muga culture. Paper presented in the national Seminar on Research in Biological Sciences for sustainable Development with the Application of Mathematics and Allied Branches, Bahona college, Jorhat (10<sup>th</sup> – 11<sup>th</sup> May 2013).
- 7) Gogoi AK, Singh GP, Sahu AK, Giridhar K (2013) Screening of foliar diseases tolerant varieties of som, *persea bombycina* - a primary food plant of muga silkworm, *Antheraea assamensis* Helfer. In: Proceeding of 1<sup>st</sup> Bodoland National Seminar cum Workshop on the Theme Sericulture Industry and its Role in the Socioeconomic Upliftment in Rural Society 10 -11 August 2013 at Bodoland University Kokrajhar.
- 8) Gogoi DK, Bhuyan PM, Sandilya SP, Subramanian S (2013) Isolation and characterization of gut-bacteria of muga silkworm (*Antheraea assamensis* Helfer) collected from different localities of Assam. Abstract published in the National Conference on Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development (RAMBSWERD) organized by Karnataka State Sericulture Research and Development Institute in association with Deptt. of Sericulture, Govt. of Karnataka and MSET- International Consortium of Contemporary Biologists, Jharkhand; w.e.f. 24<sup>th</sup> to 26<sup>th</sup> Oct, 2013.
- 9) Neog K, Unni BG (2013) Genetic variability in eri silkworm (*Samia cynthia ricini* Lepidoptera: Saturniidae) populations using SDS-PAGE and RAPD. Abstract published in the National Conference on Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development (RAMBSWERD) organized by Karnataka State Sericulture Research and Development Institute in association with Deptt. of Sericulture, Govt. of Karnataka and MSET- International Consortium of Contemporary Biologists, Jharkhand w.e.f. 24<sup>th</sup> to 26<sup>th</sup> Oct, 2013.
- 10) Neog K, Unni BG, Dey S, Renthlei CZ, Dutta P, Giridhar K (2013) Effect of JH-III and 20-hydroxy ecdysone on reproductive behaviour of muga silkworm *Antheraea assamensis*, Helfer (Lepidoptera: Saturniidae). Abstract published in the National Conference on Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development (RAMBSWERD) organized by Karnataka State Sericulture Research and Development Institute in association with Deptt. of Sericulture, Govt. of Karnataka and MSET- International Consortium of Contemporary Biologists, Jharkhand w.e.f. 24<sup>th</sup> to 26<sup>th</sup> Oct, 2013.
- 11) Neog K, Ahmed GU, Unni BG, Dutta P, Gogoi DK, Giridhar K (2013) Rearing performance and cocoon characters of muga silkworm *Antheraea assamensis* Helfer as influenced by biochemical composition of its different host plants. Paper presented in the 1<sup>st</sup> Bodoland National Seminar cum workshop "Sericulture Industry and its Role in Socioeconomics" Bodoland University, Kokrajhar held on 10-11<sup>th</sup> August, 2013.
- 12) Sandilya SP, Bhuyan PM, Dutta P, Neog K, Gogoi DK (2013) Analysis of soil biological properties in Castor (*Ricinus communis* L.) cultivated soils: A possible index towards soil fertility. Paper presented in the National Seminar on 'Research in Biological Sciences for sustainable development by the application of Mathematics and allied branches' Bahona College, Jorhat, Assam w.e.f. 10<sup>th</sup> – 11<sup>th</sup> May, 2013.

- 13) Sandilya SP, Bhuyan PM, Gogoi DK (2014) Isolation and phosphate solubilisation assay of castor rhizosphere microorganisms from different localities of Assam. Paper presented in the National Seminar on Recent Trends of Research in Science and Technology (59<sup>th</sup> Annual Technical Session, Assam Science Society), 29<sup>th</sup> March, 2014, Cotton College, Guwahati, Assam.
- 14) Sarmah MC, Sarkar BN (2013) Exploitation of high seed yielding castor: utilization for eri silkworm rearing. Abstracts: National Conference on Recent Advances in Modern Biology & Sericulture for Women Empowerment and Rural Development (RAMBSWERD-2013) held on 24-26<sup>th</sup> October, 2013 at KSSRDI, Bangalore. Pp 14-15
- 15) Sandilya SP, Bhuyan PM, Gogoi DK (2013) Isolation and characterization of biofertilizer potential microflora for sustainable castor cultivation in Ericulture. Paper presented in the National seminar on "Recent Trends in Bioresource Management and Biodiversity Conservation" organized by CPEB, Rajiv Gandhi University, Itanagar, Arunachal Pradesh, w.e.f. 17<sup>th</sup> to 19<sup>th</sup> October' 2013.