List of Publications of Department of Zoology

1) Dr. Sunayan Bardoloi

1. Sunayan Bardoloi, Lakshmi Kanta Hazarika (1992) – Seasonal variation of body weight, lipid reserves, blood volumes and hemocyte Population of *Antheraea assama*. Environmental Entomology (USA) 21 (6): 1398–1403

2. Sunayan Bardoloi, Lakshmi Kanta Hazarika (1994) – Body temperature and thermoregulation of *Antheraea assama* larva. Entomologia Experimentalis et Applicata (Belgium) 72: 207–217. https://doi.org/10.1111/j.1570- 7458.1994.tb01820.x

3. Lakshmi Kanta Hazarika, Sunayan Bardoloi, Abhijit Kataky (1994) – Effects of host plants on haemocyte populations and blood volumes of *Antheraea assama*. Sericologia (France) 34(2): 301–306

4. Sunayan Bardoloi, Lakshmi Kanta Hazarika (1995) – Variation in haemocyte population during different larval instars of Antheraea assama and their roles in the defence mechanism of the insects. Journal Assam Science Society 37(2): 96–102

5. Sunayan Bardoloi, Lakshmi Kanta Hazarika (1998) – Response of Muga silkworm *Antheraea assama* to host quality. Entomon 23(2): 111–115

6. Lakshmi Kanta Hazarika, Sunayan Bardoloi (1998) – Antennal and mouthpart sensilla of the Muga silkworm *Antheraea assama*. Sericologia (France) 38(1): 55– 63.

7. Lakshmi Kanta Hazarika, C. N. Saikia, Abhijit Kataky, Sunayan Bardoloi, J. Hazarika (1998) – Evaluation of physico chemical characteristics of silk fibres of *Antheraea assama* reared on different host plants. Bioresource Technology (UK) 64: 67–70. https://doi.org/10.1016/S0960-8524(97)00158-2

8. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyothi Bharali (2015) – Investigation into the effect of altitude on the differential hemocyte count of circulating plasmatocytes and granulocytes of larval stage of *Antheraea assama*. Journal of Insect Science 15(1):64. https://doi.org/10.1093/jisesa/iev043

9. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyothi Bharali (2015) – Ultrastructure of hemocytes of Muga Silkworm larva *Antheraea assama* Ww (Lepidoptera; Saturniidae): a phase contrast and electron microscope study. International Journal of Pure and Applied Biosciences 3(3): 234–240

10. Parag Moni Baruah, Santanu Bardaloi, Sunayan Bordoloi (2015) – A comparative study of the caffeine profile of mature tea leaves and processed tea marketed in Sonitpur district of Assam, India International Journal of Plant, Animal and Environmental Science 5(4): 113– 120

11. Bhavna Prishnee Baishya, Sunayan Bardoloi (2015) – Investigation into the effect of altitude on total hemocyte count (THC) of larval stage of Muga silkworm *Antheraea assama* Ww. Scholars Academic Journal of Biosciences 3(3): 311–314

12. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyoti Bharali (2015) – A comparative study of hemolymph protein profiles of normal and infected larvae of Muga silkworm *Antheraea assama* Ww. International Journal of Applied and Natural Sciences G(4): 65–68

13. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyoti Bharali (2015) – Study of sexual dimorphism in larval stage of Muga silkworm *Antheraea assama* Ww. collected from different altitudes. International Journal of Pure and Applied Biosciences 3(4): 173–177

14. Parag Moni Baruah, Santanu Bardaloi, Sunayan Bordoloi (2015) – A comparative survey of the pest prevalence and chemical control practices in the Tea gardens of Sonitpur district of Assam. International Journals of Multidisciplinary Research Academy 5(10): 22–32

15. Baruah G.S., Patnaik, G., Bardoloi, S. (2015). Aeromycological study and predominance of airborne fungi in Ulubari area of Guwahati city. Zoon, 13:23-29. ISSN:2394-0181

16. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyoti Bharali (2015) – Study of hemocyte population in various larval instars and pupal stage of Muga silkworm *Antheraea assama* Ww. Zoon 13: 44–47

17. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyoti Bharali (2015) A comparative study of hemolymph protein profiles of normal and infected larvae of muga silkworm *Antheraea assama* Ww. International Journal of Applied and natural Sciences. Vol 4, 65-68. ISSN 2319-4022

18. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyoti Bharali (2015) – Ultrastructure ofthe hemocytes of Muga silkworm larva *Antheraea assama* Ww (Lepidoptera: Saturniidae): a phase contrast and electron microscopy study. Indian Journal of Pure and Applied Biosciences 3(3): 234–240

19. Bhavna Prishnee Baishya, Sunayan Bardoloi, Rupjyoti Bharali (2016) – Morphological changes in the hemocytes of *Antheraea assama* (Lepidoptera: Saturnidae) upon bacterial infection. Journal of Entomology and Zoology Studies 4(6): 46–49.

20. Sunayan Bardoloi, Pranamika Roy, Gayatri Sarma Baruah, Salma Mazid (2016) – Study of inhibitory effect of certain chemicals on Phenoloxidase (PO) of *Antheraea assama* Ww. International Journal of Pure and Applied Bioscience. 4: 98–102. http://dx.doi.org/10.18782/2320-7051.2367

21. Sunayan Bardoloi, Kumari Desdimona, Salma Mazid (2016) – Comparative study of the changes in haemogram of *Antheraea assama* Ww reared on two host plants, Som (*Machilus bombycina* King) and Soalu (*Litsea polyantha* Juss). International Journal of Pure and Applied Bioscience 4(5): 144–152. http://dx.doi.org/10.18782/2320-7051.2368

22. N. Nath, Sunayan Bardoloi (2016) – Quantification and electrophoretic profile of haemolymph protein of Philosamia ricini reared on three host plant *Ricinus communis* (Castor), *Heteropanax fragrans* (kesseru) and *Manihot utilissima* (Tapioca). Zoon, 14:35– 40

23. Bikash Rabha, Sunayan Bardoloi (2016) – Comparative study of haemograms of Philosamia ricini reared on three host plants, Castor (*Ricinus communis*), Kesseru (*Heteropanax fragrans*) and Tapioca (*Manihot esculenta*). Zoon, 14:11–14

24. N. Mustafee, Sunayan Bardoloi (2016) – Protein profiling of bacteria induced Eri *(Philisomia ricini*) silkworm reared on Castor plant (*Ricinus communis*). Zoon, 14:73–79

25. Arlina Rahman, Sunayan Bardoloi, Salma Mazid (2018) – Entomophagy practiced among the Tiwa community of Morigaon district, Assam. Journal of Entomology and Zoology Studies 6(1): 484–486

26. Krishna Talukdar, Sunayan Bardoloi, Salma Mazid (2018) – Toxicological effect of lead nitrate on haemogram of eri silkworm (*Philosamia ricini*). Joural of Entomology and Zoology Studies 6 (1): 480–483

27. Gayatri Sarma Baruah, Sunayan Bardoloi, Dipsikha Bora (2018) – Screening the efficacy of multiple buffers on the optimization of in vitro activity of prophenoloxidase (PPO) enzyme in both healthy and pebrine infected Muga silkworm larvae. International Journal of Basic and Applied Research 9(5): 280–288

28. Gayatri Sarma Baruah, Hridip Kumar Sarma, Sunayan Bardoloi, Dipsikha Bora (2018) – Purification and characterization of phenoloxidase from the hemolymph of healthy and diseased *Antheraea assamensis* Helfer (Lepidoptera: Saturniidae): Effects of certain biological components and chemical agents on enzyme activity. Archives of Insect Biochemistry and Physiology 100: e21531. https://doi.org/10.1002/arch.21531

29. Sarma M, Bordoloi S, Mazid S, Baruah G.S. (2018). Silk fibroin extraction and quantification of silk powder from cocoons of *Philosamia ricini* (Eri) and *Antheraea assamensis* (Muga). Journal of emerging technologies and innovative research. ISSN: 23495162

30. Karanjit Das, Sunayan Bardoloi, Salma Mazid (2019) – A study on the prevalence of entomophagy among the Koch Rajbongshis of North Salmara subdivision of Bongaigaon district. International Journal of Basic and Applied Research 9(3): 382– 388

31. Sanghamitra Saharia, Shibani Kalita, Dimpi Moni Kalita, Sanjana Sharmin, Sunayan Bardoloi (2022)- GC-MS analysis for the potential bioactive compounds and in vitro efficacy of the rhizome extract of *Curcuma longa* L., from district Udalguri, Assam, India against white muscardine fungus *Beauveria bassiana*. International journal of Bioscence 20(6):229- 239

32. Shibani Kalita, Sunayan Bardoloi, Bidisha Rani Das, Smritimala Sarmah, Sanghamitra Saharia, Anjumani Ojah. (2023). Effect of magnetic field on the Haemogram and protein content of Eri Silkworm, *Philosamia ricini*. Toxicology International.

33. Shibani Kalita,Tanushree Biswas, Ankita Devi, Sanghamitra Saharia, Dimpi Moni Kalita, Sunayan Bardoloi (2023). Assessment of antibacterial activity of bacteria immunized Muga silkworm (*Antheraea assamensis* Helfer) and its comparison with market antibiotics. International journal of Bioscience 23(2):220-227

34. Sanghamitra Saharia, Shibani Kalita, Dimpi Moni Kalita, Anjumani Ojah, Sunayan Bardoloi (2023). Assessment of the Effect of Methanolic Herbal Extract on Cocoon
Parameters and Tensile Properties of Silk Fiber Spun by *Beauveria bassiana* Infected Muga Silkworm, *Antheraea assamensis* Helfer. Asian Journal of Biological and Life Sciences 12(2): 395-401

35. Sanghamitra Saharia, Manabendra Nath, Shibani Kalita, Dimpi Moni Kalita and Sunayan Bardoloi (2024). Identification and toxicity evaluation of *Beauveria* sp. Associated with white muscardine disease in muga silkworm *Antheraea assamensis* Helfer. Indian journal of entomology 1698

2) Dr. Salma Mazid

1. Mazid, S., Kalita, J.C. and Rajkhowa, R.C. (2011). A review on the use of biopesticides in insect pest management. *International Journal of Science and Advanced Technology.* 1(7). ISSN: 2221-8386

2. Mazid, S., Rajkhowa, R. C. and Kalita, J.C. (2013). Effect of temperature on duration of developmental stages of red spider mite (*Oligonychus coffeae* Nietner), a serious pest of tea. *Global Research Analysis*. 4(3). ISSN: 2277 – 8160

3. Mazid, S., Rajkhowa, R. C. and Kalita, J.C. (2015). Seasonal incidence of red spider mite, *Oligonychus coffeae* Nietner on tea plantation in Assam. PARIPEX Indian *Journal of Research*. 4(3). ISSN: 2250-1991

4. Mazid, S., Rajkhowa, R. C. and Kalita, J.C. (2015). Pathogenicity of *Aspergillus niger* and *Aspergillus flavus* on red spider mite (*Oligonychus coffeae* Nietner), a serious pest of tea. *Journal of Entomology and Zoology Studies*. 3 (3): 11-13. EISSN: 2320-7078 and P-ISSN: 2349-6800.

5. Mazid, S., Kalita, J.C. and Rajkhowa, R.C. (2016). Biocontrol potential of *Penicillium citrinum* and *Penicillium chrysogenum* against red spider mite, *Oligonychus coffeae* Nietner infesting tea. Journal of Entomological Research. 40(1), 43-47. ONLINE ISSN: 0974-4576 and P-ISSN: 0378-9519.

6. Bardoloi, S., Roy, P., Baruah, G.S. and Mazid, S. (2016). Study of inhibitory effect of certain chemicals on Phenoloxidase(PO) of *Antheraea assama* Ww. *International Journal of Pure and Applied Bioscience.* 4(5): 98-102. ISSN : 2320-7051

7. Bardoloi, S., Desdimona, K. and Mazid, S. (2016). Comparative study of the changes in haemogram of *Antheraea assama* Ww reared on two host plants, Som (*Machilus bombycina*

King) and Soalu (*Litsea polyantha* Juss). *Journal of Pure and Applied Bioscience*. 4(5): 144-152. ISSN : 2320-7051

8. Mazid, S., Rajkhowa, R.C., Kalita, J.C. (2016). Efficacy of the fungal isolate *Penicillium chrysogenum* against red spider mite, *Oligonychus coffeae* Nietner. ZOON. 14: 15-20. ISSN: 2394-0182

9. Roy,P., Baruah, G.S., Mazid, S. (2017). Effect of certain air pollutants and pesticide residues on prophenoloxidase (PO) of *Antheraea assamensis* Helfer. ZOON. 15: 49-54. ISSN: 2394-0182

10. Talukdar, K., Bordoloi, S. and Mazid, S. (2018). Toxicological effect of lead nitrate on haemogram of eri silk worm (Philosamia ricini). *Journal of Entomology and Zoology Studies*. 6(1): 480-483. E-ISSN: 2320-7078, P-ISSN: 2349-6800

11. Rahman, A., Bordoloi, S. and Mazid, S. (2018). Entomophagy practiced among the Tiwa community of Morigaon district, Assam. *Journal of Entomology and Zoology Studies*. 6(1):484-486. E-ISSN: 2320-7078, P-ISSN: 2349-6800

12. Sarma, M., Bordoloi, S., Mazid, M., Baruah, G.S. (2018). Silk fibroin extraction and quantification of silk powder fron cocoons of *Philosamia ricini* (Eri) and *Antheraea assamensis* (muga). *Jounal of Emerging Technologies and Innovative Research*. 5(10): 565567. ISSN: 2349-5162

13. Das, K., Bardoloi, S., Mazid, M. (2019). A study on the prevalence of entomophagy among the Koch-Rajbongshis of North Salmara subdivision of Bongaigaon district. *International Journal of Basic and Applied Research.* 9(3): 382-388. E-ISSN: 2278-0505, PISSN: 2249-3352.