

Personal profile



Dr. Bhabesh Deka
Associate professor,
Department of Entomology,
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Educational profile

Ph.D.	Dibrugarh University, Dibrugarh, Assam; 2015 Supervisor: Prof. D.S.Bora Subject: Entomology, chemical ecology of plant-insect interactions
M.Sc.	Gauhati University, Guwahati, Assam; 2006 Subject: Entomology
PGDBI:	National Institute of Electronics and Information Technology (NIELIT) Guwahati; 2004 Subject: Bioinformatics
B.Sc.	Pub Kamrup College, Gauhati University, Assam; 2003 Subject: Zoology

Professional experience

Associate professor , Department of Entomology, Rajiv Gandhi University, Arunachal Pradesh, India	12.06.2023-till date
Scientist , TRA, Tocklai Tea Research Institute, North Bengal Regional Research & Development Centre, Nagrakata, Jalpaiguri, West Bengal-735225	17.01.2014-07.06.2023

Awards & Honours

1. Merit award certificate for best graduate from Pub Kamrup College, (Gauhati University) in 2003.
2. Financial assistance for participating in International symposium on Insects, Entomological society of Malaysia (Held on 3-5th Dec, 2012) from Science and Engineering Research Board; DST (Under International Travel support scheme).
3. **Research Excellence Award** 2020, Institute of Scholars (InSc)
4. **Young Scientist award** (8th Academic Achievement Award-2020)
5. **Young Scientist Award** – 2021 (3rd National Conference on "Recent Advances in Crop Protection including IPM and Environmental Sciences from GLP Perspective" Chennai, organized by the Dr. B. Vasantharaj David Foundation).

Membership of Professional / Scientific Societies

1. Member of "Entomological Society of America" Member ID: 80927.
2. Member of "European Federation of Biotechnology".

3. Member of International Association of Computer Science and Information Technology, Singapore (IACSIT), Membership No.: 80344880.
4. Member of Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES), Hong Kong, Member No.: 201039.
5. Zoological society of Assam.
6. Board of Editors “Asian Journal of Conservation Biology (AJCB)” (Scopus index journal). ISSN 2278-7666 <https://www.ajcb.in/editorial.php>
7. Board of Editor, *Beverage Plant Research* (ISSN 2769-2108), the official journal of Tea Research Institute, Chinese Academy of Agricultural Sciences and China Tea Science Society

Research interest

- Biological control of insect pests
- Chemical ecology of plant-insect interactions
- Nanopesticides
- Bioinformatics

Research Publications

Research/Review articles:

1. Kakoti B, **Deka B**, Roy S and Babu A. (2023). The scale insects: Its status, biology, ecology and management in tea plantations. *Frontiers in Insect Science*. 2:1048299. doi: 10.3389/finsc.2022.1048299
2. Adhikary B., Kashyap B., Gogoi RC., Sabhapondit S., Babu A., **Deka B.**, Pramanik P., Das B. (2023). Green tea processing by pan-firing from region-specific tea (*Camellia sinensis* L.) cultivars - a novel approach to sustainable tea production in Dooars region of North Bengal. *Food Chemistry Advances*. 2(100181). <https://doi.org/10.1016/j.focha.2023.100181>
3. Moran D., Dutta U., Kunnumakkara AB., Daimari E., **Deka B.** (2022). Insect venoms and their bioactive components: a novel therapeutic approach in chronic diseases and cancer. *Journal of Cancer Science and Clinical Therapeutics*. 6: 360-382.
4. Babu A., Pandey A.K., **Deka B.**, Kumhar KC., Sarkar S., Bordoloi M., Mani S. (2022). Molecular characterization and functional properties of deep-soil-inhabiting actinobacteria for combating Fusarium dieback disease in tea crop. *Biological Control*. 174 (105027). <https://doi.org/10.1016/j.biocontrol.2022.105027>. **Impact factor: 3.857**
5. **Deka B.**, Babu A., Borah A. (2022). Potential of metarhizium as a microbial bio-control agent with an emphasis on its application and utility: A mini-review. *International Journal of Entomology Research*, 7(7): 29-32
6. **Deka B.**, Baruah C., Babu A., Kalita P. (2022) Biological and Non-Conventional Synthesis of Zinc Oxide Nanoparticles (ZnO-NPs): Their Potential Applications. *Journal of Nanotechnology and Nanomaterials*.3(2):79-89.
7. **Deka B**, Nisha SN, Baruah C, Babu A, Sarkar S, Phukan H, and Sharma DK (2022) Agricultural Pest Management with Plant-Derived Nanopesticides: Prospects and Challenges
8. **Deka B**, Babu A, Baruah C and Sarkar S (2022) Plant Extracts as Potential Acaricides for the Management of Red Spider Mite, *Oligonychus coffeae* Nietner (Acarina: Tetranychidae), in the Tea Ecosystem: An Eco-Friendly Strategy. *Frontiers in Agronomy*. 4:685568. doi: 10.3389/fagro.2022.685568
9. **Deka B**, Babu A, Pandey AK, Kumhar KC, Rajbongshi H, Dey P, Peter AJ, Amalraj ELD., & Talluri VR. (2022) Potential of the entomopathogenic fungus, *Metarhizium anisopliae*.l. for control of red spider mite, *Oligonychus coffeae* Nietner on tea crop, *International Journal of Acarology*, 48:2, 121-129, DOI: 10.1080/01647954.2022.2041089. **Impact factor: 1.056**
10. **Deka, B.**, Sarkar S., Modak D., Roy S., Babu A. (2022). Significance of Microbes and their Role in Pest Management in Tea Ecosystem. *International Journal of Tea Science*. 16(1):1-5. DOI: 10.20425/ijts16100
11. **Deka, B.**, Sarkar, S., Modak, D., Roy, S., Babu, A. (2022). Indigenous Plant Extracts and their Role in Pest Management in Tea Ecosystem. *International Journal of Tea Science*. 16(1):1-5. DOI: 10.20425/ijts16100

12. **Deka B**, Sarkar S, Modak D, Roy S, Babu A. (2022). Indigenous plant extracts and their role in pest management in tea ecosystem. *International Journal of Tea Science* 16 (01), 10-15
13. **Deka B**, BabuA, Peter AJ, Kumhar KC, Sarkar S, Rajbongshi H, Dey P, Amalraj ELD and Talluri VR. (2021). Potential of the entomopathogenic fungus, *Metarhizium anisopliae s.l.* in controlling live-wood eating termite, *Microtermes obesi* (Holmgren) (Blattodea: Termitidae) infesting tea crop. *Egyptian Journal of Biological Pest Control*.31, 132. <https://doi.org/10.1186/s41938-021-00477-4>. **Impact factor: 1.995**
14. Babu A., Mukherjee N, **Deka B**, Das B and Sil SK. (2021). Physiology of biotic and abiotic stress tolerance in agricultural crops with special reference to tea, *Camellia sinensis* (L.) O. Kuntze. *Journal of Entomology and Zoology Studies* 2021; 9(5): 236-245
15. **Deka B**, BabuA, Peter AJ, , Pandey AK, Kumhar KC, Sarkar S, Rajbongshi H, Dey P, Amalraj ELD and Talluri VR. (2021). *Beauveria bassiana*: as a potential microbial biocontrol agent for tea mosquito bug, *Helopeltis theivora* Waterhouse (Hemiptera: Miridae) in Dooars and Darjeeling, India. *Egyptian Journal of Biological Pest Control*. 31:134. <https://doi.org/10.1186/s41938-021-00478-3>. **Impact factor: 1.995**
16. **Deka B** and Babu A (2021) Tea Pest Management: A Microbiological Approach. *Applied Microbiology: Open Access*. 7, 206: 1-9.
17. **Deka B**,Baruah C, and Babu A. (2021). Entomopathogenic microorganisms: their role in insect pest management. *Egyptian Journal of Biological Pest Control*. **31**, 121. <https://doi.org/10.1186/s41938-021-00466-7>. **Impact factor: 1.995**
18. **Deka B**, Babu A, Baruah C and Barthakur M. (2021). Nanopesticides: a systematic review of their prospects with special reference to tea pest management. *Frontiers in nutrition* (special issue on Tea (*Camellia sinensis*L): Cultivation to the Cup That Cheers).doi: 10.3389/fnut.2021.686131. **Impact factor: 6.576**
19. **Deka B**,Tomberlin JK., and Babu A. (2021): Insects as food and feed: a promising agricultural sector with special reference to India. *Journal of Insects as Food and Feed*. 7 (4): 471-482. <https://doi.org/10.3920/JIFF2020.0131>. **Impact factor: 5.158**
20. **Deka B**, Pandey AK, Babu A, Baruah C & Sarkar S (2021): Acaricidal and ovicidal properties of *Lippiaalba* essential oil and its chemical constituents against red spider mite, *Oligonychus coffeae* Nietner (Acari: Tetranychidae) infesting tea crops. *Archives of Phytopathology and Plant Protection*. DOI: 10.1080/03235408.2021.1938354. **Impact factor: (Scopus)**
21. Baruah C, Devi P, Deka B, DK Sharma. (2021). Mucormycosis and Aspergillosis have been Linked to Covid19-Related Fungal Infections in India. *Adv Case Stud*. 3(1). DOI: 10.31031/AICS.2021.03.000555
22. **Deka B**, Sarkar S, Modak D, Roy S, Babu A. (2021). Significance of Microbes and their Role in Pest Management in Tea Ecosystem. *International Journal of Tea Science*, 16 (01), 16-18
23. Sarkar S., Babu A., Chakraborty K., **Deka B**. & Roy S. (2021): Seasonal abundance of *Cotesiaruficrus*(Hymenoptera: Braconidae) and its host tea looper, *Hyposidra talaca* (Lepidoptera: Geometridae) in tea ecosystem. *International Journal of Pest Management*. DOI: 10.1080/09670874.2021.1918359. **Impact factor: 1.216**
24. Sarkar S., Babu A., Chakraborty K., **Deka B**., Kashyap B., and Adhikary B. (2021): Study on varietal preference and nutritional indices of tea looper *Hyposidra talaca* (Lepidoptera: Geometridae) on ten selected tea varieties. *International Journal of Tropical Insect Science*. <https://doi.org/10.1007/s42690-021-00502-x>. **Impact factor: 1.071**
25. Pandey A.K., **Deka B**., Varshney R., Cheramgoi E.C. and Babu A. (2021) Do the beneficial fungi manage phytosanitary problems in the tea agro-ecosystem? *BioControl*. <https://doi.org/10.1007/s10526-021-10084-9>. **Impact factor: 3.571**
26. Subramaniam M.S.R., Babu A. and **DekaB**. (2021): *Lecanicilliumlecanii* (Zimmermann) Zare& Gams, as an efficient biocontrol agent of tea thrips, *Scirtothripsbispinosus*Bagnall (Thysanoptera: Thripidae). *Egyptian Journal of Biological Pest Control*. 31:38. <https://doi.org/10.1186/s41938-021-00380-y>. **Impact factor: 1.995**
27. **Deka B**.,Baruah C. and Barthakur M. (2021). In silico tertiary structure prediction and evolutionary analysis of two DNA-binding proteins (DBP-1 and DBP-2) from *Hyposidra talaca* nucleopolyhedrovirus (HyaNPV). *Biologia*. <https://doi.org/10.2478/s11756-020-00665-x>. **Impact factor: 1.350**

28. Sarkar S., Babu A., Chakraborty K., **Deka B.** and Roy S. (2021) *Eocantheconafurcellata* (Wolff) (Hemiptera: Pentatomidae), a potential biocontrol agent of the black inch worm, *Hyposidra talaca* Walker (Lepidoptera: Geometridae) infesting tea. *Phytoparasitica*. 49(3), 363-376. <https://doi.org/10.1007/s12600-021-00888-x>. **Impact factor: 1.569**
29. **Deka B.**, Babu A, Baruah C, Sarkar S and Sharma DK. (2020) Conservation of the tea (*Camellia sinensis* (L.) O. Kuntze) ecosystem through enhancement of natural enemies of pests. *Asian Journal of Conservation Biology*, 9 (2): 183-187. <https://doi.org/10.53562/ajcb.EN00018>. **Impact factor: (Scopus)**
30. **Deka B.**, Babu A. and Sarkar S. (2020). *Scirtothrips dorsalis*, Hood (Thysanoptera: Thripidae): A major pest of tea plantations in North East India. *Journal of Entomology and Zoology Studies*. 8(4): 1222-1228. **Impact factor: (Scopus)**
31. Sarkar S., Babu A., Chakraborty K. and **Deka B.** (2020). Biology and life history of *Cotesiaruficrus* (Hymenoptera: Braconidae) a potential parasitoid of *Hyposidra talaca* (Lepidoptera: Geometridae) larvae, a major tea pest. *Journal of Biopesticides*, 13(1):79-84. **Impact factor: (Scopus)**
32. Kumhar K.C., Babu A., Arulmariamathan J.P., **Deka B.**, Bordoloi M., Rajbongshi H. and Dey P. (2020). Role of beneficial fungi in managing diseases and insect pests of tea plantation. *Egyptian Journal of Biological Pest Control*. 30:78. <https://doi.org/10.1186/s41938-020-00270-9>. **Impact factor: 1.995**
33. Sarkar S., Babu A., Chakraborty K. and **Deka B.** (2020): Predatory behaviour of *Eocantheconafurcellata* (Hemiptera: Pentatomidae) fed on larvae of *Hyposidra talaca* (Lepidoptera: Geometridae), a major tea pest of North East India and rearing on an alternative host. *International Journal of Scientific Research*. 9 (3) ISSN No. 2277 – 8179, DOI : 10.36106/ijsr
34. **Deka B.**, Babu A., Sarkar S., Kanrar B., Patanjali P.K. and Bhandari P. (2020): Role of *Prosopisjuliflora* as a botanical synergist in enhancing the efficacy of neem kernel powder against tea red spider mites, *Oligonychus coffeae* (Acari: Tetranychidae). *SN Applied Sciences (Springer nature)*. <https://doi.org/10.1007/s42452-020-2354-7>. **Impact factor: (Scopus)**
35. Roy S., Rahman A., Babu A. and **Deka B.** (2019): Integrated Pest Management Strategies for Scale Insects. *Two & a bud*, 65: 1-2.
36. Sarkar S., Babu A., Chakraborty K. and **Deka B.** (2019): Study on the Biology, Feeding Behaviour and predatory Potential of *Sycanus collaris* (Fabricius) (Heteroptera: Reduviidae), a new Predator of *Hyposidra talaca* (Walk.) (Lepidoptera: Geometridae), a major Tea pest and mass Rearing on *Corcyra cephalonica* (Stainton) in Laboratory', *International Journal of Current Advanced Research*, 08(06), pp. 19258-19262. DOI: <http://dx.doi.org/10.24327/ijcar.2019.19262.3705>
37. Nguyen T.T., Suryamohan K., Kuriakose B., Janakiraman V., Reichelt M., Chaudhuri S., Guillory J., Divakaran N., Rabins P.E., Goel R., **Deka B.**, Sarkar S., Ekka P., Tsai Y., Vargas D., Santhosh S., Mohan S., Chin C., Kurlach J., Thomas G., Babu A. & Seshagiri S. (2018): Comprehensive analysis of single molecule sequencing-derived complete genome and whole transcriptome of *Hyposidra talaca* nuclear polyhedrosis virus. *Scientific Reports-Nature* 8:8924 | DOI: 10.1038/s41598-018-27084-y. **Impact factor: 4.011**
38. **Deka B.**, Babu A., Sarkar S., Mandal S., Kundu N., Patanjali P.K. and Bhandari P. (2017): Bioactivity of an organic synergist in enhancing the efficacy of Neem Kernel Aqueous extracts (NKAE) and three recommended acaricides in controlling tea red spider mite (*Oligonychus coffeae*). *Journal of Tea Science Research*, 7(4): 40-45 (doi: 10.5376/jtsr.2017.07.0008)
39. **Deka B.**, Babu A., and Sarmah M. (2017): Bio-efficacy of certain indigenous plant extracts against red spider mite, *Oligonychus coffeae*, Nietner (Tetranychidae: Acarina) infesting tea, *Journal of Tea Science Research*, 7(4): 28-33 (doi: 10.5376/jtsr.2017.07.0004).
40. Sarmah M., Talukder T., **Deka B.** and Babu A. (2016): Effect of acaricides on eggs and subsequent development of tea red spider mite, *Oligonychus coffeae* Nietner. *International journal of current advanced research*. 5 (1): 566-568.
41. Bora D.S., **Deka B.** and Sen A. (2016): Restricted diet breadth of the larvae of *Antheraea assamensis*, and the role of the labrum epipharynx and galealsensilla. *Entomological Research (Wiley)*. DOI: 10.1111/1748-5967.12159. 46 (2): 128-138. **Impact factor: 1.306**

42. Bora D.S., **Deka B.**, Devi U. and Mech A. (2015): Lipid profile of plants influence host selection by gustatory sensilla in the larvae of *Antheraea assama* Westwood. *International Journal of Recent Scientific Research*. Vol. 6 (6): 4681-4687.
43. **Deka B.** And Bora D.S. (2014):The terpenoids released by *Perseabombycina* due to feeding by *Antheraea assama* Westwood. *National Academy Science Letters, (Springer)*. (DOI 10.1007/s40009-013-0215-2). **Impact factor: 0.788**
44. Bora D.S.,**Deka B.**, and Sen A. (2013): Host plant selection by larvae of the muga silk moth *Antheraea assamensis* Helfer (Lepidoptera: Saturniidae): Role of Antenna and Maxillary palp. *Journal of Insect Science*. 13: 52. **Impact factor: 1.904**
45. **Deka B.** and Bora D.S.(2012): Development and life table parameters of Uzi fly, *Exorista sorbillans* (Wiedemann)(Diptera: Tachinidae), a parasitoid of *Antheraea assamensis* Helfer in different seasons. *Bulletin of Life Sciences*, Dibrugarh University. Vol: XVIII p. 1-15. Peer reviewed. ISSN-0971-5746.
46. Bora D.S., **Deka B.** and Fahmi F. (2012): Response of *Exorista sorbillans* to volatiles of host plants of *Antheraea assama*, Westwood. 35: (6): 467-473. *National Academy Science Letters, (Springer)*.DOI: **10.1007/s40009-012-0080-4**. **Impact factor: 0.788**
47. **Deka B.** and Bora D.S. (2013): Role of visual cues in host searching behaviour of *Exorista sorbillans*, a parasitoid of muga silk worm, *Antheraea assama* Westwood. *Journal of Insect Behaviour (Springer)*.DOI 10.1007/s10905-013-9409-1.**Impact factor: 1.309**
48. Bora D.S., Tariang R., **Deka B.**, Borthakur S., Saikia D. and Khanikor B. (2011): Matrix habitat use by butterfly communities in vicinity of Jokai Reserve forest, Assam. *Bulletin of Life Sciences*, Vol-XVII: 1-19. Peer reviewed. ISSN-0971-5746.
49. Akulwad A.K., Kasav A., **Deka B.**, Bora D.S. and Sen A. (2011): Chemoreception in *Antheraea assama-Exorista sorbillans* complex: role of host plant chemicals. Conference Paper. Conference: *Entomological Society of America Annual Meeting*.

Books:

1. Bhabesh Deka, Azariah Babu and Abhay K. Pandey. 2021. Pests and diseases of tea crop and their management. LAP LAMBERT Academic Publishing. ISBN: 9786204210278
2. C. Baruah and B. Deka. 2022. A text book of animal biotechnology. Kalyani Publication. ISBN: 9789355402141
3. C. Baruah and B. Deka. 2022. Economic Entomology. Kalyani Publication. (in press)

Book chapters:

1. Babu A, Deka B. and Roy S. 2022. Integrated Pest Management in Plantation Crops with Special Reference to Tea. *Advances in Agricultural Entomology*. AkiNik Publications. Volume - 16. 29-55. ISBN: 978-93-5570-026-1. DOI: <https://doi.org/10.22271/ed.book.1493>
2. Deka B. and Babu A. 2021. Thrips (*Scirtothrips dorsalis*, Hood): Vectors of Tospoviruses in Agricultural Crops. *Essentials of Economic Entomology*. AkiNik Publications. ISBN: 978-93-90541-81-2. Volume: 2. 35-53. DOI: <https://doi.org/10.22271/ed.book.1039>
3. Deka B., Borah A., Dutta U., and Babu A. 2022. Terpenoids: The Phyto-Active Components as Sources of Insecticide. Book Title: *Terpenes and Terpenoids: Sources, Applications and Biological Significance*. Nova Science Publishers, Inc. USA. DOI: <https://doi.org/10.52305/XEFS4090>. ISBN: 978-1-68507-559-0
4. Deka B., Babu A., and Baruah C. 2022. Application of bioinformatics in agricultural pest management: An overview of the evolving technologies. *Information Retrieval in Bioinformatics: A Practical Approach*. CRC press. Taylor and Francis. ISBN:978-981-19-6506-7 DOI: 10.1007/978-981-19-6506-7_4
5. Deka B., Babu A. and Baruah C. 2022. Prospects of Smart Farming as a Key to Sustainable Agricultural Development: A Case Study of India. *Artificial Intelligence and Smart Agriculture: Technology and Applications*. CRC press. Taylor and Francis. ISBN 9781032120799
6. Azariah Babu, Somnath Roy, Rupanjali Deb Baruah, Bhabesh Deka, Kamruza Z. Ahmed, Sourajit Bayen and Suman Sarkar. 2022. Impact of climate change on tea cultivation and adaptation strategies: Special emphasis on tea pests in Northeast India. Wiley. ISBN: 9781119789789. DOI:10.1002/9781119789789

7. Bora D.S., **Deka B.**, and Fahmi F. 2012: Response of *Exorista sorbillans* (Diptera: Tachinidae) to Volatiles of *Persea bombycina* Kost, a Host Plant of *Antheraea assamensis* Helfer. **Proceedings of International conference on Bioresources and Human sustenance.**

Short articles:

1. Babu A., **Deka B.**, Dhar R. and Dharmapandit S. (2016): Effect of an organic synergist in enhancing the bio-efficacy of Fenpyroximate 5EC against red spider mites. **Tocklai News, 1: 25, Jan-June.**
2. Babu A., **Deka B.**, Dhar R. and Dharmapandit S. (2016): Ovicidal activity of Neem Kernel Aqueous Extract (NKAE) against red spider mites. **Tocklai News, 3: 25, Jan-June.**
3. Sarmah M., Das S., **Deka B.** and Babu A. (2016): Variation in the susceptibility of red spider mite populations of different sub districts of Dooars to selected acaricides. **Tocklai News, 4: 25, Jan-June.**
4. Babu A., **Deka B.**, Dhar R., Dharmapandit S. and Sarmah M. (2015): Field bio efficacy of NKAE against red spider mites: A micro plot field trial. **Tocklai news, 1: 24, July-Dec.**
5. Babu A., **Deka B.** and Yadav S.S. (2015): Laboratory production of NPV of looper (*H. talaca*) using a semi artificial diet. **Tocklai news, 4: 24, July-Dec.**
6. Babu A. and **Deka B.** (2014): Delta (Yellow) sticky traps for thrips and green-hopper management. **Tocklai news, 4: 21, Jan-June.**
7. Babu A., **Deka B.**, Sarmah M., Dhar R. and Dharmapandit S. (2015): Effect of organic synergists in the enhancement of bio-efficacy of Neem Kernel Powder (NKP) aqueous extracts against tea red spider mite. **Tocklai news, 4: 23, Jan-June.**
8. **Deka B.**, Babu A., Das S. and Sarmah M. (2015): Bio-efficacy of Dipel 8L in combination with other CIB approved agrochemicals against tea loopers. **Tocklai news, 4: 23, Jan-June.**
9. Babu A., **Deka B.**, Ekka P. and Das S. (2014): Bioefficacy of solvent extracts of wild sunflower and *Artemisia vulgaris* against the tea looper and red spider mite. **Tocklai news, 5: 22, July-Dec.**

Course/conference/workshop etc. attended/paper presented

1. International Symposium on Insects: "INSECT, HUMAN & ENVIRONMENT". *Entomological Society of Malaysia (ENTOMA), Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, MALAYSIA. (3-5th Dec, 2012).*
2. CEP course on Advance Analytical Techniques conducted by IIT Bombay. (March 26-29, 2012).
3. Sensitization Workshop on: Intellectual Property Technology Management and Entrepreneurship organized by Biotechnology Industry Research Assistance Council (A Govt. of India Enterprise) & Dibrugarh University. 18th Feb, 2013.
4. International seminar on "Bioresources and Human Sustenance". Organized by: Department of Zoology, Cotton College, Guwahati, Assam in Collaboration with Zoological Society of Assam (ZSA). (20th, 21st and 22nd Oct., 2011).
5. 18th International conference 2012 (post ISCBC) perspective and challenges in chemical and biological sciences. Jointly organized by IASST, Guwahati, Assam and ISCB, Lucknow, UP, India. 28th - 30th January, 2012.
6. DBT sponsored national seminar on "Biotechnology Research in sustainable development". Organized by Centre for studies in Biotechnology, Dibrugarh University. Dibrugarh-786004. (February 27-28; 2012).
7. National seminar on "Recent advances in synthesis and catalysis (RASC 2011)". Organized by Department of Chemistry, Dibrugarh University, Dibrugarh-786004. Assam. (10-12th Feb, 2011).
8. 98th Indian Science Congress, 2011 in Chennai.
9. International consultation on DNA Barcoding at National Agricultural Science Complex, New Delhi, India on Nov 6-7, 2010.
10. DBT sponsored BTISnet training programme on "Biotechnology and Bioinformatics tools in Teaching and Research" organized by the Bioinformatics Infrastructure Facility (BIF) at the centre for studies in Biotechnology, Dibrugarh University, from March 11-13, 2010.

11. UGC sponsored National Seminar on Climate change or environmental pollution, a question to be pondered at with respect to *Antheraea assama* Westwood. "Global climate change: Frontier Research in Biological Sciences" organized by the Department of Life Sciences, Dibrugarh University on 12th Feb, 2010.
12. SPSS 16.0 Faculty development program. Organized by SPSS South East Asia and Department of Statistics, Dibrugarh University, Dibrugarh on 19th and 20th September 2008.
13. National seminar of the Zoological society of Assam held at Phanidhar Dutta Memorial Hall, Gauhati University and Department of Zoology, Gauhati University on 2nd Feb, 2006.
14. Workshop on "Bioinformatics and its Future Prospects" held at Gauhati University organized by the Department of Botany, Gauhati University and DoEACC Centre Guwahati/Tezpur.
15. A comparative study on two artificial diets for the mass rearing of looper, *Hyposidra talaca* (Walk.) (Lepidoptera: Geometridae) infesting tea. Poster presented in the national seminar on Plant Protection in Tea: Recent Advances. 26th & 27th February, 2015 held at Tocklai Tea Research Institute, Jorhat, Assam.
16. Bio-efficacy of solvent extracts of wild sun flower (*Tithonia diversifolia* (Hemsl.)) and *Artemisia vulgaris* against the tea looper *Hyposidra talaca* (Walker) and red spider mite *Oligonychus coffeae*. Poster presented in the national seminar on Plant Protection in Tea: Recent Advances. 26th & 27th February, 2015 held at Tocklai Tea Research Institute, Jorhat, Assam.
17. Presented a paper entitled "Neem kernel aqueous extracts (NKAE) in tea mite management" on the National Seminar on Integrated Approach in Zoological Research & Biennial conference of Zoological society of Assam 30th and 31st March, 2017, Organised by Department of Zoology, Gauhati University, Assam, India

Sponsored projects: 09 nos.
