

CURRICULUM VITAE



Name : DR. SHYAMAL KR. SAHOO

Date of Birth : 26.09.1978

Educational Qualification : Ph.D. in Agricultural Entomology

Designation : Professor (2022) and Head (Since 27.05.2024)

Official Address/ Department : Department of Entomology, Uttar Banga Krishi Viswavidyalaya (UBKV), Pundibari, Cooch Behar-736165, West Bengal, India.

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Working in UBKV since : 13.06.2017; Head (since 27.05.2024)

Pervious Professional Experiences :

- i) Served as SMS (Plant Protection) in the Malda KVK, UBKV, Ratua, Malada (15.01.2005 to 22.10.2008).
- ii) Served as Assistant Entomologist, W.B.A.S. (Research) in the Pulses and Oilseeds Research Station, Berhampore, Murshidabad (23.10.2008 to 12.06.2017)

Research interests and area of specialization:

Molecular Entomology. Taxonomical and Bio-ecological studies of Homopteran insect-pests particularly aphids. Systematics and bio-ecology of insect-pests in fruit crops. Biological control of crop pests.

Award/ Honors/Recognition:

Sl. No.	Name of Award	Awarding Agency	Year
a.	National Eligibility Test (NET) qualified	ICAR	2005
b.	Fellow and Life Member of Entomological Society of India, New Delhi, India.	Entomological Society of India, New Delhi	2013

c.	Life Member of the Society for Biocontrol Advancement, NBAIR (ICAR), Bangalore.	NBAIR (ICAR), Bangalore.	2020
d.	Life Member of the Cooch Behar Association of Cultivation of Agricultural Sciences (COBACAS).	Cooch Behar Association of Cultivation of Agricultural Sciences (COBACAS), UBKV, Pundibari.	2018
e.	Departmental Topper during M.Sc. (University Merit Scholarship)	BCKV, Mohanpur, Nadia.	2002

Professional Training

:

1. Short course on “**Molecular identification and DNA barcoding of insect-pests and natural enemies including invasive pests**” held at NBAIR, Bangalore from 18-27th November, 2019.
2. Winter school on “Recent advances in the production and delivery system of bio-control agent, bio-pesticides and bio-fertilizer in agriculture” held at Dr.PDKV, Akola, Maharashtra from 5 - 25th January, 2010.
3. Training on “Production technologies of bio-control agents and their application in Agriculture” held at Project Directorate of Biological Control, Bangalore from 22 - 31st March, 2005.
4. “Orientation Training on Agro-ecosystem Analysis” held at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar on 18 - 21st February, 2006.
5. Training programme on Plant Protection organized jointly by Directorate of Agriculture, Govt. of W.B.; B.C.K.V, Mohanpur, Nadia and Crop Life India at Farmers Training Hall, BCKV, Kalyani, Nadia from 3 - 4th January, 2014.
6. Virtual Training on Whole genome sequencing in bacteria held on 29th – 30th August, 2020 organized by Foundation for Innovation Research in Science and Technology, Nagercoil.

Research Publications (Total No: 55):

1. Saren, D., **Sahoo, S. K.**, Mounika, T., Chakraborty, D., Maji, A., Bhowmik, N., Debnath, M.K. and Patra, B. (2025). Species Composition, Diversity and Spatial Distribution of Cicadellid Mango Hopper in Sub Himalayan West Bengal, India. *Inter. Journal of Tropical Insect Science*, (2025). **NAAS rating 7.10** (ISSN: 1742 - 7584)
2. Mounika, T., Hath, T.K., **Sahoo, S. K.**, Gupta, D.S. and Debnath, M.K. (2025). Oviposition behaviour of pulse beetle (*Callosobruchus chinensis* L.) on different stored pulses. *Legume Research*, **LR-5516**: 1-6. **NAAS rating 6.80** (ISSN: 0250-5371)
3. Manohar, S., Patra, B., **Sahoo, S.K.**, Chakraborty, D., Basak, P., Debnath, A., Bhattacharya, P.M., Reddy, S.A. and Sivakumar, G. (2025). Evaluation of different solid substrates for mass multiplication of an insecticide-compatible native strain of *Beauveria bassiana* (Balsam) Vuillemin. *AMA-Agricultural Mechanization in Asia Africa and Latin America*, **56**(09): 21545-21556. **NAAS rating 6.40** (ISSN: 0084-5841)

4. **Sahoo, S.K.**, Saha, A. and Jha, S. (2016). Influence of weather parameters on the population dynamics of insect-pests of mango in West Bengal. *Journal of Agrometeorology*, **18**(1): 71-75. **NAAS rating 6.40** (ISSN: 0972-1665)
5. Patra, B., Mandal, S., **Sahoo, S.K.** and Hath, T.K. (2022). Higher activity of Glutathione S-transferase enzyme is associated with field evolved resistance in *Empoasca flavescens* Fabricius. *Inter. Journal of Tropical Insect Science*, (2022). <https://doi.org/10.1007/s42690-022-00813-7>. **NAAS rating 6.77** (ISSN: 1742 - 7584)
6. Polu, P., **Sahoo, S.K.** and Bhowmick, N. (2022). Susceptibility of different rejuvenated mango cultivars to leaf cutting weevil (*Deporaus marginatus*). *Agricultural Mechanization in Asia Africa and Latin America*, **53**(05): 7589-7594. **NAAS rating 6.14** (ISSN: 0084-5841)
7. Mounika, T., Hath, T.K., **Sahoo, S.K.**, Biswas, N. and Debnath, M.K. (2025). Comparative morphometric measurements of different stages of *Callosobruchus chinensis* in five different pulses. *Journal of Entomological Research*, **49**(1): 64-67. **NAAS rating 5.63** (ISSN: 0378-9519)
8. Polu, P., Bhowmick, N. and **Sahoo, S.K.** (2025). Effect of meteorological factors on incidence of mango hopper in shoot pruned mango plants under Sub-Himalayan terai region of West Bengal, India. *Journal of Experimental Agriculture International*, **47**(8): 303-310. **NAAS rating 5.14** (ISSN: 2457-0591)
9. Chatterjee, M., Biswas, A., Chakraborty, D., Patra, B. and **Sahoo, S.K.** (2024). First report of invasive thrips, *Thrips parvispinus* (Karny) (Thysanoptera; Thripidae) in chilli from Alipurduar districts of West Bengal, India. *Journal of Scientific Research and Reports*, **30**(5): 618-624. **NAAS rating 5.17** (ISSN: 2320-0227)
10. Polu, P., Bhowmick, N. and **Sahoo, S.K.** (2024). Seasonal incidence of leaf webber on different rejuvenated mango cultivars in Sub-Himalayan terai region of West Bengal, India. *Plant Archives*, **24**(02): 71-74. **NAAS rating 5.59** (ISSN: 0972-5210)
11. Chakraborty, D., Dutta, S., Chatterjee, M., **Sahoo, S.K.** and Hath, T.K. (2024). First report of *Carbophilus dimidiatus* (Fabricious) (Coleoptera; Nitidulidae) in stored groundnut and field maize from West Bengal, India. *Journal of Scientific Research and Reports*, **30**(10): 618-624. **NAAS rating 5.17** (ISSN: 2320-0227)
12. Chakraborty, D. and **Sahoo, S.K.** (2023). First report of three invasive whitefly species (Aleyrodidae; Hemiptera) from West Bengal, India. *Int. Journal of Environment and Climate Change*, **13**(8): 939-944. **NAAS rating 5.13** (ISSN: 2581-8627)
13. Maji, A., **Sahoo, S.K.**, Phani, V. and Bhowmik S. (2023). Morpho-molecular characterization and seasonality analysis of *Greenidea psidii* Van Der Goot on Guava in Terai zone of West Bengal. *Int. Journal of Environment and Climate Change*, **13**(9): 1424-1431. **NAAS rating 5.13** (ISSN: 2581-8627)
14. Maji, A., Samanta, S., Chatterjee, M., **Sahoo, S.K.** and Pal, S. (2023). Screening of eighty germplasm of mustard against aphid, *Lipaphis erysimi* Kalt. (Hemiptera: Aphididae) in terai region of West Bengal. *Journal of Agriculture and Technology*, **10**(2): 53-57. **NAAS rating 3.39** (ISSN: 2348-4721)
15. Saha, S., Keerthana, B., Sarkar, S., Dhanapati, G.K., **Sahoo, S.K.**, and Pal, S. (2023). An annotated checklist of Coccinellidae (Coleoptera) from Pundibari region of West Bengal, India. *Uttar Pradesh Journal of Zoology*, **44**(24): 14-27. **NAAS rating 4.21** (ISSN: 0256-971X)

16. Mounika, T., **Sahoo, S.K.**, Chakraborty, D. and Sreedevi, K. (2022). Pulse beetle diversity and in Sub Himalayan West Bengal. *Journal of Ent. Res.*, **44**(4): 555-558. NAAS rating **5.89**
(ISSN: 0378-9519)
17. Maji, A., Pal, S., Gurung, B., Chatterjee, M. and **Sahoo, S.K.** (2022). Diversity of aphids and their predatory coccinellids from West Bengal. *Indian Journal of Entomology*, Ref. No. e22276 DoI. No.: 10.55446/IJE.2022.682. NAAS rating **5.08** (ISSN: 0367-8288)
18. Sarkar, S., Pal, S., **Sahoo, S.K.**, Laskar, N. and Ghosh, J. (2022). Field efficacy study of different biorationals and insecticides against brinjal fruit and shoot borer under terai region of West Bengal. *Uttar Pradesh Journal of Zoology*, **43**(16): 57-66, (Sept., 2022) NAAS rating **4.21** (ISSN: 0256-971X)
19. Mounika, T., **Sahoo, S.K.** and Chakraborty, D. (2022). Diversity and distribution of *Callosobruchus* spp. attacking stored chickpea in northern tracts of West Bengal. *International Journal of Environment and Climate Change*, **12**(10): 488-493. NAAS rating **5.13** (ISSN: 2581-8627).
20. Mounika, T., **Sahoo, S.K.**, Chakraborty, D. and Debnath M.K. (2022). Bio-efficacy of botanicals against pulse beetle, *Callosobruchus chinensis* L. in stored chickpea. *Journal of Eco-friendly Agriculture*, **17**(1): 94-99. NAAS 2021 rating **5.23** (ISSN: 2229-628X)
21. Mounika, T., **Sahoo, S.K.** and Chakraborty, D. (2021). Evaluation of some botanicals against *Callosobruchus chinensis* L. infesting stored chickpea seeds and bio-chemical analysis of used botanicals. *International Journal of Bio-resource and Stress Management*, **12**(6): 679- 686. NAAS 2021 rating **5.11** (ISSN: 0976-3988)
22. Amitava Dutta, K.N. Mandal, **S.K. Sahoo**, R. Das, S. Roy, S. Sarkar, S.R. Patra, Shankar Bhujbal, Archana Rai and Sanjay J. Jambhulkar (2021). Sanchita (YSWB 2014/2) and Anushka (YSWB 2011-10-1) -two yellow sarson (*Brassica rapa* var. yellow sarson l.) varieties notified for West Bengal. *J. of Oilseeds Res.*, **38**(2): 207-210 NAAS rating **5.02** (ISSN: 0970-2776)
23. Sreedhar, B.K., Hath, T.K., **Sahoo, S.K.** and Okram, S. (2021). Seasonal incidence of mustard aphid (*Lipaphis erysimi* Kalt.) and its correlation with weather factors under terai zone of West Bengal. *International Journal of Current Microbiology and Applied Science*, **10**(01): 2556-2561. NAAS rating **5.38** (ISSN: 2319-7706)
24. Patra, B., **Sahoo, S.K.** and Hath, T.K. (2020). Studies on ovicidal activity of some selected acaricides against *oligonychus coffeae* Nietner on tea. *Journal of Entomology and Zoology Studies*, **8**(2): 554-556. NAAS rating **5.53** (ISSN: 2349-6800)
25. Polu, P., **Sahoo, S.K.** and Bhowmick, N. (2020). Year round incidence and preference of cicadellids hoppers on different cultivars of mango in Sub-Himalayan terai zone of West Bengal. *Journal of Entomology and Zoology Studies*, **8**(2): 1543-1545. NAAS rating **5.53** (ISSN: 2349-6800)
26. Maji, A., Pal, S., Chatterjee, M. and **Sahoo, S.K.** (2020). Seasonal incidence of aphid and their natural enemies on mustard from terai region of West Bengal. *Journal of Ent. Res.*, **44**(4): 555-558. NAAS rating **5.05** (ISSN: 0378-9519)
27. Sreedhar, B.K., Hath, T.K., **Sahoo, S.K.**, Chakraborty, D. and Okram, S. (2019). Screening of Indian mustard genotypes against mustard aphid (*Lipaphis erysimi* Kalt.) under terai zone of West

- Bengal. *Journal of Entomology and Zoology Studies*, 7(5): 1340-1344. NAAS rating **5.53**
(ISSN: 2349-6800)
28. **Sahoo, S. K.** (2018). Investigation on insect dynamics in Indian mustard at different sowing dates. *Journal of Entomological Research*, 42(3): 343-347. NAAS rating **5.05** (ISSN: 0378-9519)
 29. Sahoo, U., Das, J., Saha, S., Das, S.K., Roy, D., Debnath, M.K. and **Sahoo, S. K.** (2018). Preparation of herbal extracts and evaluation of their efficacy against rice weevil (*Sitophilus oryzae* L. (Curculionidae; Coleoptera). *Journal of Entomology and Zoology Studies*, 6(5): 2236-2240. NAAS rating **5.53** (ISSN: 2349-6800)
 30. **Sahoo, S.K.** (2018). Biology and seasonal incidence of Mexican beetle, *Zygogramma bicolorata* Pallister on parthenium in New alluvial zone of West Bengal. *Indian Journal of Entomology*, 80(3): 1183-1185. (Short Communication) NAAS rating **5.89** (ISSN: 0367-8288)
 31. **Sahoo, S.K.** and Saha, A. (2018). Monitoring of alate mustard aphid (*Lipaphis erysimi* Kalt.) by using yellow sticky trap in West Bengal. *Journal of Crop and Weed*, 14(3): 149-152. NAAS rating **5.28** (ISSN: 0974-6315)
 32. **Sahoo, S.K.** (2018). Screening of different pulses against pulse beetle, *Callosobruchus chinensis* L. (Bruchidae; Coleoptera). *Journal of Agriculture and Technology*, 5(1): 24-27. NAAS rating **3.39** (ISSN: 2348-4721)
 33. Sharma, S.S., Paul, B., Saha, P., **Sahoo, S.K.**, Mondal, K., Hath, T.K. and Mondal, H.A. (2017). Evaluation the potentiality of some parameters to probe the elevated levels of resistance in Brassica sp. at the early period of aphid infestation in open field condition. *Journal of Entomology and Zoology Studies*, 5(6): 1356-1364. NAAS rating **5.53** (ISSN: 2349-6800)
 34. **Sahoo, S.K.** (2016). Effect of climatic variability on the insect pests of linseed and their natural enemies in West Bengal. *International Journal of Bio-resource and Stress Management*, 7(2): 247-251 NAAS rating **4.65** (ISSN: 0976-3988)
 35. **Sahoo, S.K.** (2016). Estimation of yield losses in Brassica due to insect-pests. *Indian Journal of Entomology*, 78 (4): 317-321. NAAS rating **5.89** (ISSN: 0367-8288)
 36. **Sahoo, S.K.** (2016). Chemical control of red banded mango fruit borer, *Autocharis albizonalis* Hampson (Pyralidae; Lepidoptera). *Indian Journal of Entomology*. 78(1): 10-14. NAAS rating **5.89** (ISSN: 0367-8288)
 37. Biswas, B., Sarkar, S., **Sahoo, S.K.**, Das, R., Das, S.K. and Singh, D. (2016). Yield gap and economic utility evaluation of improved technologies in rapeseed-mustard cultivation: An analysis of FLD in West Bengal. *Ecology, Environment and Conservation*. 22(3): 265-270. NAAS rating **4.89** (ISSN: 0971-765X)
 38. **Sahoo, S.K.** (2016). Evaluation of Linseed genotypes for resistance to Bud fly, *Dasyneura lini* Barnes (Diptera; Cecidomyiidae). *Journal of Agroecology and Natural Resource Management*, 3(3): 275-279. (p-ISSN:2394-0786, e-ISSN:2394-0794)
 39. **Sahoo, S.K.**, Biswas B. and Singh Y.P. (2015). Field evaluation of rapeseed-mustard cultivars for resistance against mustard aphid. *Journal of Insect Science*, 28(2): 192-198. NAAS Rating **4.72** (ISSN: 0970-3837)
 40. Biswas, B., Chatterjee, S., Das, I., Sarkar, S., Ghosh, S., **Sahoo, S.K.**, Das, R., Das, S.K. and Singh, D. (2017). Critical assessment of yield variability of oilseed Brassica in Eastern Indo-Gangetic Plain. In: *Proceedings of the International Symposium of Eco-Efficiency in Agriculture & Allied research* held in the BCKV, Kalyani, Nadia during 20-23 January, 2017. Pp 631-632.
 41. **Sahoo, S.K.** (2013). Population dynamics of mustard aphid, *Lipaphis erysimi* Kaltenbach (Hemiptera; Aphididae) on Brassica germplasm. *Indian Journal of Entomology*, 75(1): 9-14. NAAS rating **5.89** (ISSN: 0367-8288)
 42. **Sahoo, S.K.** and Pal, P.K. (2003). Effect of Alternate use of Pesticides on Shoot and Fruit borer of Okra. *Environment & Ecology*, 21 (4): 960-963. NAAS rating **4.18** (ISSN: 0970-0420)

43. Hati, S.R., **Sahoo, S.K.**, Jha, S. and Saha, A. (2005). Population dynamics of mango hopper as influenced by abiotic factors in New Alluvial Zone of West Bengal., *Environment & Ecology*, **23S** (spl.2): 314-318. NAAS rating **4.18** (ISSN: 0970-0420)
44. **Sahoo, S.K.** and Jha, S. (2008). Screening of mango varieties against leaf cutting weevil in the nursery. *Crop Research*, **35**(3): 226-232. NAAS rating **4.60** (ISSN: 0970-4884)
45. **Sahoo, S.K.**, and Jha, S. (2006). Behaviour and development of Mango leaf cutting weevil, *Deporaus marginatus* (Pascoe) (Attelabidae; Coleoptera). *Journal of Plant Protection and Environment*, **3**(1): 68-75. NAAS rating **2.88** (ISSN: 0973-1717)
46. Banerji, R., **Sahoo, Shyamal Kr.**, S.K. Das, S.K. and Jha, S (2005). Studies on Incidence of Melon fly, *Bactrocera cucurbitae* Coq. in relation to weather parameters on bitter gourd in the New Alluvial Zone of W.B. *Journal of Entomological Research* ,**29**(3): 1-4. NAAS rating **5.05** (ISSN: 0378-9519)
47. **Sahoo, S.K.** and Jha, S. (2009). Mango fruit borer, *Autocharis albizonalis* Hampson (Pyrallidae; Lepidoptera) - a recent threat to mango growers in West Bengal, India. *Acta Horticulturae* 820 ISHS 2009: 600-608.
48. Das, S.K., **Sahoo, S.K.**, Jha, S. and Saha, A. (2006). Population fluctuation of Aphid, *Aphis gossypii* Glover in relation to weather parameters in cucumber. *Journal of Aphidology*, **20**(2): 33-36. (ISSN: 0970-3810)
49. Samui, G., Bhaumik, N., Pathak, H., Jha, S., Hasan, M.A., Majumder, D. and **Sahoo, S.K.** (2006). Gallicolous insects, an upcoming threat of mango cultivation in West Bengal. *The Horticultural Journal*. **19**(3): 165-167.
50. **Sahoo, Shyamal Kr.** and Karmakar, K. (2004). Screening of pumpkin cultivars against leaf miner (*Liriomyza trifolii* Burgess) (Agromyzidae; Diptera) and white fly (*Bemisia tabaci* Genn.) (Aleyrodidae; Hemiptera). *Journal of Interacademia*., **8** (4): 575- 581. NAAS rating **3.96** (ISSN: 0971-9016)
51. Banerji, R., **Sahoo, S.K.** and Jha, S. (2005). Evaluation of different insecticides against melon fly, *Bactrocera cucurbitae* Coq. (Diptera; Tephritidae) infesting bitter gourd. *Indian journal of Agricultural Chemistry*, **.XXXVIII** (1,2):67-71. NAAS rating **2.50** (ISSN: 0367-8229)
52. Hati, S.R., Samui, G., Jha, S. and **Sahoo, S.K.**(2006). Susceptibility of various mango cultivars to mango hopper in New Alluvial Zone of West Bengal. *Uttar Pradesh Journal of Zoology*, **26**(2): 169-173. NAAS rating **3.81** (ISSN: 0256-971X)
53. **Sahoo, S.K.** and Jha, S. (2007). Flower visitors of yellow sarson during winter season in the New Alluvial Zone of W.B. *Insect Environment*. **13**(3): 161-162. NAAS rating **2.56** (ISSN: 0975-1963)
54. Banerji, R., **Sahoo, S.K.**, Jha,S. and Banerjee, H. (2007). Dissipation and Persistence of Triazophos in Bitter gourd. *Journal of Horticultural Sciences*, **3** (1): 82-83. NAAS rating **3.43** (ISSN: 0973-354X)
55. **Sahoo, S.K.** (2012). Incidence and management of mustard aphid (*Lipaphis erysimi* Kaltenbach) in West Bengal. *The Journal of Plant Protection Sciences*, **4**(1): 20-26. (ISSN:2249-7897)

Books or chapter in books :

1. Raj,S.K., Maiti,B.B. and **Sahoo, S.K.** (2005). Dhan chase rog poker samassa o pratikar. Paschim Bangler Krishi Prajugti (2nd Part), Fasaler Rog Poka. Publisher: Dept. of Plant Pathology, B.C.K.V, Mohanpur, Nadia: 5-26.
2. Raj,S.K., Maiti,B.B. and **Sahoo, S.K.** (2005). Paschim Bangler pat chase rog poker samassa o pratikar. Paschim Bangler Krishi Prajugti (2nd Part), Fasaler Rog Poka. Publisher: Dept. of Plant Pathology, B.C.K.V, Mohanpur, Nadia: 85-96.
3. **Sahoo, S.K.**, Nayak, U.S. and Maji, A. (2022). Pests of Mango ecosystem and their integrated management. In: Pests of Fruit Crops. Publisher: Nipa Genx Electronic Resources & Solutions Pvt. Ltd., New Delhi, 1-38p.

Popular Article

1. Sahoo, S.K. (2019). Prag Kkarif Dal Sasher Rog-Pokar Susanghata Niyrantran . Published in the Krishi Jagran (March, 2019; Page 24-25)
2. Sahoo, S.K. (2021). Aamer Suli Poka Ke Chinun o Niyrantran Karun. Published in the Bengali News Paper (Sangbad Pritidin- 12.05.2021)
3. Chakraborty, D. and Sahoo, S.K. (2021). Bedesi Patanga Rugose Spiralling Sada Machir Sampratik Akraman o tar pratikar (First issue). Published in the Bengali News Paper (Sangbad Pritidin- 18.08.2021)
4. Chakraborty, D. and Sahoo, S.K. (2021). Bedesi Patanga Rugose Spiralling Sada Machir Sampratik Akraman o tar pratikar (Second issue). Published in the Bengali News Paper (Sangbad Pritidin- 25.08.2021)
5. Patra, B. and Sahoo, S.K. (2021). Jayba Upaye Fasaler Rog-Poka Daman. Published in the Bengali News Paper (Sangbad Pritidin- 03.11.2021)

Variety release: Co-worker of two varieties of yellow sarson (Sanchita and Anushka) released vide Gazette notification no. S.O. 3482 (E) dated 7th October, 2020 of the Department of Agriculture and Cooperation, Govt. of India, New Delhi.

Courses teaching

- EXT-103 (Human Values & Ethics)
- ENT-151 (Fundamentals of Entomology)
- ENT-152 (Fundamentals of Entomology-Hort.)
- ENT-251 (Insect pests of fruits, plantation, medicinal and aromatic plants and their management)
- ENT-301 (Crop pests and stored grain pests and their management)
- ENT-302 (Apiculture)
- ENT-351 (Insect pests of horticultural crops and their management)
- PPA-352 (Integrated pests and diseases management)
- ENT-501 (Insect morphology)
- ENT-502 (Insect anatomy, physiology and nutrition)
- ENT- 503(Principle of Taxonomy and classification of insects)
- ENT-506 (Biological Control of Crop Pests)
- ENT-509 (Principles of IPM)
- ENT-510 (Pests of field, horticultural and plantation crops and storage entomology)
- ENT-512 (Commercial entomology)
- ENT- 601 (Immature stages of insects)
- ENT-608 (Advanced IPM)
- ENT- 605 (Advanced host plant resistance)
- ENT-607 (Molecular approaches in Entomological research)

Research projects/ supports :

1. Conducted 45 nos. of research trials under All India Coordinated Research Project (AICRP) of I.C.A.R. Rapeseed-Mustard and Linseed in the P.O.R.S., Berhampore, Murshidabad, Govt of West Bengal.
2. Co-operating scientist in the RKVY sponsored project entitled “Eco-friendly management of pulse beetle attacking major pulses in the storage and thereby increasing pulse production in West Bengal”.
3. Working as a Co-P.I. in the project entitled “Enhancing pulse production for food, nutritional security, improving livelihood and sustainable agriculture” Funded by GoWB- ICARDA from 2017 onwards (Cost of project- Rs.19.694 Crores).

4. Worked as a Co-P.I. in the project entitled “Enhancing oilseeds production for improving livelihood and sustainable agriculture” Funded by NMMOP, Govt. of India during 2017 (Cost of project- Rs.3.0 Crores).
5. Worked as P.I. in the project entitled “Evaluation of coded pesticides against *Helicoverpa*, *Spodoptera* and Semilooper in Soybean” Funded by Crystal India Pvt. Ltd. from 2018 onwards (Cost of project- Rs.4 lakhs).
6. Worked as P.I. in the project entitled “Bioefficacy and Phytotoxicity evaluation of Acephate 75% SP against sucking pests of cotton” Funded by Swal Corporation Ltd. from 2018 onwards (Cost of project- Rs.5.04 lakhs).
7. Working as Co-P.I. in the project entitled “To evaluate the bio-efficacy and phytotoxicity of Phoskil (Monocrotophos 36 SL) on okra, chilli, brinjal and onion” Funded by UPL Ltd. from 2018 onwards (Cost of project- Rs.10.08 lakhs).
8. Worked as P.I. in the project entitled “Bio-efficacy of coded insecticides IKI3106 80SL against stem borer and leaf folder of Rice” Funded by ISK Biosciences India Pvt. Ltd. from 2018 onwards (Cost of project- Rs.3.99 lakhs).
9. Working as Co-P.I. in the project entitled “Beekeeping for upliftment of rural livelihood North Bengal” Funded by NABARD (2018-21) (Cost of project- Rs.5.08 lakhs).
10. Working as Co-P.I. in the project entitled “Evaluation of bio-efficacy and phytotoxicity of Thiodicarb 50% + Imidacloprid 5% WDG against major insect pests of Chilli.” Funded by M/S Agro Life Science Corporation from 2019 onwards (Cost of project- Rs.3.36 lakhs).
11. Working as Co-P.I. in the project entitled “To evaluate the bio-efficacy of Ulala (Flocamid 50 WP) against insect-pests of potato” Funded by UPL Ltd. from 2019 onwards (Cost of project- Rs.3.36 lakhs).
12. Working as Co-P.I. in the project entitled “Bioefficacy and phytotoxicity evaluation of coded product CCP-5537 SC against thrips and cercospora leaf spot of chilli” Funded by Crystal India Pvt. Ltd. from 2019 onwards (Cost of project- Rs.3.99 lakhs).
13. Worked as P.I. in the project entitled “Bioefficacy and phytotoxicity evaluation of coded product Fall army worm in maize” Funded by Crystal India Pvt. Ltd. from 2019 onwards (Cost of project- Rs.3.99 lakhs).
14. Working as P.I. in the project entitled “Evaluation bio efficacy of NC - 129 (20% WP) against red spider mite and white fly infesting brinjal” Funded by Godrej Agrovet Ltd. from June, 2019 onwards (Cost of the Project- 5.06 lakh)
15. Worked as P.I. in the project entitled “Evaluation of bio-efficacy of CCP-0415 against *Spodoptera* sp. in soybean” Funded by Crystal India Pvt. Ltd. from 2019 onwards (Cost of project- Rs.3.99 lakhs).
16. Worked as P.I. in the project entitled “Evaluation of bio-efficacy and phytotoxicity of Thiodicarb 50%+ Imidachloprid 5% against major insect pests of chilli” Funded by M/S Agro Life Science Corporation from 2019 onwards (Cost of project- Rs.3.36 lakhs).
17. Working as Co-PI in the project “Evaluation of Chlorantraniliprole 9.3% w/w + Lambda Cyhalothrin 4.6% w/w ZC (Ampligo 150 ZC) in Rice through Drone application” funded by Syngenta from 2021 onwards (Cost of project-Rs.2.5 lakhs).
18. Working as P.I. in the AICRP-Biological Control Funded by ICAR-NBAIR from 2018 onwards (Cost of project- Rs.3 lakhs and TSP Head: 10.67 lakhs during 2018-19).

Seminar/ Symposium/ Workshop Attended

:

International level:

1. International Conference on “**Environment and Development**”, held at Science City, Kolkata on 4-8th Feb., 2004.
2. International Symposium on Food Security Dilemma: Plant health and climate change issue held at B.C.K.V., Kalyani, W.B. on December 7-9, 2012.
3. International Seminar on “Integrating Agriculture and Allied Research : Prioritizing Future Potential for Secure Livelihoods” held at CHRD, BCKV, Kalyani, Nadia from 6 – 9th November, 2014.
4. International Conference on “Agriculture, Food Science, Natural Resource Management and Environmental Dynamics: The Technology, People and Sustainable Development held at FACC, BCKV, Kalyani, Nadia on August 13-14, 2016.
5. 7th International Science Congress on “ Widespread Research: Strengthening Nations and Spreading Happiness held at College of Science and Technology, Royal University of Bhutan, Chukkha, Bhutan on 8-9th December, 2017.
6. Participated in the International webinar on “Moth diversity, Ecology and Conservation” held on 24th July, 2020 organized by St. Joseph College, Bengaluru.
7. Participated in the International webinar on “Insect Systematics: Importance, Challenges and Way Forward” held on 29th January, 2021 organized by ICAR-NBAIR, Bengaluru.

Nation level:

1. National Symposium on “**Frontier Areas of Entomological Research**”, held at the Division of Entomology, IARI, New Delhi on 5-7th Nov., 2003.
2. National Symposium on “**Bio-diversity Management**”, held at the BHU, Varanasi on 28-30th June, 2003.
3. National Symposium on “**Zoology- A Neorealistic Approach**”, held at Deptt. Of Zoology, University of Calcutta, Kolkata on 26-27th March, 2004.
4. National Symposium on “**Aphid in Agriculture and Forestry**”, held at Deptt. of Zoology, University of Kalyani, Kalyani, W.B. on 24-25th Nov., 2004.
5. XXXVIIth Annual Convention and Symposium on “**Pesticides Chemistry-Agriculture Interface: New Frontiers**”, held at Deptt. of Agril. Chemicals, B.C.K.V., Mohanpur, Nadia, on 27-28th Nov., 2004.
6. Zonal Chapter (EZ) meeting cum symposium held at B.C.K.V., Kalyani, Nadia, W.B. on 18-19th 2003.
7. National Symposium on “ **Banana Industry- Present Scenario and Future Strategies**” held at B.C.K.V., FTC, Kalyani, W.B. on 11-13th June,2004.
8. Participated in the “ **1st National Krishi Vigyan Kendra Conference**” held at NASC, Pusa, New Delhi on 27-28 October,2005.
9. National Symposium on “**Sustainable Pest Management for Safer Environment**” held at O.U.A.T., Bhubaneswar on 6-7 th Dec., 2007.
10. **Annual workshop** of AICRP on Linseed and Safflower held at O.U.A.T., Bhubaneswar on 3-5th Sept., 2009.
11. **Annual workshop** of AICRP on Rapeseed-Mustard held at Khanapara campus, Assam Agriculture University, Guwahati on 5 to 7th August, 2011.
12. **Annual workshop** of AICRP on Linseed and Safflower held at DOR, Hyderabad on 27 to 29th August, 2011.
13. **18th Annual workshop** of AICRP on Rapeseed-Mustard held at Birsha Agricultural University, Ranchi, 3-5th August,2012.

14. **19th workshop of AICRP** on Rapeseed-Mustard held at Sardarkrushinagar Dantiwada Agricultural University, Gujarat, 2013.
15. **21st workshop of AICRP** on Rapeseed-Mustard held at B.C.K.V., Kalyani, Nadia from 20 -22nd August, 2014.
16. **4th Congress on Insect Science** held at PAU, Ludhiana, Punjab from April 16 - 17th, 2015.
17. **QRT meeting of AICRP on Rapeseed-Mustard** held at BAU, Ranchi, Jharkhand from 15-16th January, 2016.
18. Participated in the 18th Agri Unifest held at SVVU, Tirupati from 12-16th February, 2018.
19. Participated in the 27th Annual Group Meeting of AICRP-Biological held at KAU, Thrissur, Kerala from 17.05.18 to 18.05.18.
20. Participated in the One-day workshop on “Farming diversity for doubling farmers income” held at UBKV, Pundibari on 18th September, 2018
21. Participated in the 28th Annual Group Meeting of AICRP-Biological Control held at Anand Agriculture University, Anand, Gujarat during May, 2019.
22. National Symposium on "**Mitigating biotic stresses in agriculture for 21st century: Changing market paradigm**" held at UBKV, Pundibari on 5-6th Nov., 2019.
23. Attended in the 29th Annual Group Meeting of AICRP-Biological held via Virtual mode on 21 -22nd May, 2020.
24. Attended in the Webinar on Desert Locust Management: Current Status & Future Strategies held on 30th May, 2020 organized by IARI, New Delhi.
25. Participated in the webinar on bioecology and management of locust held on 05th June, 2020 organized by NBAIR, Bangalore.
26. Participated in the webinar on “Locusts: Myth and Reality, How to tackle if we come across?” held on 09th June, 2020 organized by MPKV, Rahuri.
27. Participated in the webinar series on “Be+ during Covid-19” held on 22-27th June, 2020 organized by NAHEP (ICAR).
28. Participated in the webinar on “Challenges and Recent Initiatives for management of Fall Army Worm” held on 16th July, 2020 organized by Bihar Agricultural University, Sabour, Bhagalpur.
29. Participated in the virtual conference on “Drones application technology in spraying for crop protection” held on 29th July, 2020 organized by Crop Life India and FICCI.
30. Participated in the webinar on “Digital agriculture –Piloting to Scaling out proven technologies” organized by Ray Consulting in association with ICRISAT on 1st August, 2020.
31. Participated in the National virtual meeting on “Biopesticides-Registration and Quality control: Issues- way forward” held on 6th October, 2020 organized by SBA, ICAR-NBAIR and ESI, New Delhi.
32. Participated in the webinar on “Covid 19: Challenges for management of mental health and risk factor” held on 19-20th June, 2021 organized by A.B.N. Seal College, Cooch Behar, W.B.
33. Attended in the 30th Annual Group Meeting of AICRP-Biological Control held via Virtual mode on 14th July, 2021.

34. Participated in the Quinquennial Review Meeting (QRT) of AICRP-Biological Control held at Assam Agricultural University, Jorhat on 30.05.23 to 31.05.23.
35. Participated in the 32nd Annual Group Meeting of AICRP-Biological Control held at College of Agriculture, MPKV, Pune during 20 to 21 July, 2023.
36. Participated and presented research paper on “Promotion of biological control strategies in Terai zone of West Bengal” in the National Conference held at UBKV, Pundibari on 05.03.24 to 06.03.24.

State level:

1. 11th State Science and Technological Congress of West Bengal, held at B.N.I.T.T.T.R and Bidhan Nagar Govt. College, Bidhan Nagar, Kolkata on 28- 29th Feb., 2004.
2. 12th State Science and Technological Congress of West Bengal, held at W.B.University of Technology, Kolkata on 28th Feb-1st March., 2005.
3. Participated in the state level workshop of KVK held at FTC, B.C.K.V., Kalyani, Nadia on 25-26th April, 2005.
4. Participated in the Scientific Advisory Committee Meeting of Dakshin Dinajpur Krishi Vigyan Kendra held on 8th Dec. 2005.
5. 16th State Science and Technological Congress of West Bengal, held at Burdwan university, Rajbati, Burdwan on 28th Feb-1st March.,2009.
6. 17th State Science and Technological Congress of West Bengal, held at W.B.University of Animal and Fishery science, Belgachia, Kolkata on 4-5th March.,2010.
7. 19th State Science and Technological Congress of West Bengal, held at Saha Institute of Nuclear Physics, Kolkata on 1st -2nd March,2012.
8. Participated in the webinar on “Management in the time of Pandemic” organized by IQAC, Banipur Mahila Mahavidyalaya on 1st August, 2020.
9. Participated in the Fruit Fly Awareness Day organized by AAPP on 8th August, 2021.
10. Participated in the Nematode Awareness Day organized by AAPP on 7th July, 2021.

Zonal and Regional:

1. Participated in the “Zonal **workshop cum Training programme on FLD on oilseeds and pulses of KVK**” held at RAU, Pusa, Bihar on 19-20 December, 2005.
2. Participated in the “**Regional Science and Technological Congress**” held at Alipurduar College on 18-19 December, 2019.

Number of scholar

Supervised (M.Sc. & Ph.D.)

: M.Sc. (Entomology)- 4

Ph. D. (Entomology)- 2

Sl. No.	Name of the student	Thesis title	Year
Ph.D.			
1.	Atanu Maji	Morpho-molecular characterization of aphids of vegetable and fruit crops in Sub-Himalayan West Bengal	2023
2.	Debanjan Chakraborty	Bioecology of invasive whiteflies in Sub-Himalayan West Bengal	2024
3.	Swagata Bhowmik	Diversity of aphid species of cereals and pulses in Sub-Himalayan West Bengal	2024
4.	A. Sankeerthana	Diversity of Hymenopteran parasitoids in Sub-Himalayan	2024

		Plains and Hills of West Benagl	
M.Sc.			
1.	Tumma Mounika	Species Diversity of <i>Callosobruchus</i> spp. and their Management with Botanicals	2020
2.	Dharmaraj Saren	Studies on Cicadellid Hopper Diversity and their Population Behaviour associated with Mango Ecosystem in Sub-Himalayan West Bengal.	2021
3.	Sogala Monohar	Isolation, Characterisation and bioassay of native isolate of <i>Beauveria bassiana</i> (Balsamo) Vuillemin against different insect pests	2023
4.	Abhirup Ghosh	Field evaluation of <i>Beauveria bassiana</i> (Balsamo) Vuillemin (UBKV Bb-1) against insect pests of cabbage and mustard.	2025

**Number of scholar you are
Supervising (M.Sc. & Ph.D.)**

**: M.Sc. (Entomology)- 0
Ph. D. (Entomology)- 2**

External Examiner

1. Acted as External Examiner of M.Sc. Thesis viva (4 students) of BCKV, Mohanpur, Nadia on 15.06.2018.
2. Acted as External Examiner of M.Sc. Thesis viva (4 students) of BCKV, Mohanpur, Nadia on 10.08.2023.
3. Acted as External Examiner of Ph.D. Comprehensive viva-voce examination (2 students) of CAU, Umiam, Meghalaya on 04.11.2024.
4. Acted as External Examiner of Ph.D. thesis evaluation (Sourav Sen) of BCKV, Nadia on 18.07.2025.
5. Acted as External Examiner of Ph.D. thesis evaluation (Amit Layek) of BCKV, Nadia on 08.09.2025.
6. Acted as External Examiner of M.Sc. thesis evaluation (Bora Prasanna) of AAU, Jorhat on 20.09.2025

Question setting:

1. End term question paper of Anatomy and Physiology course (ENT-502) of PG programme of CAU, Pasighat on 30.07.2024
2. End Term question paper of Management of Beneficial Insects (AEN-311) of UG programme of Visva-Bharati, Sriniketan on 06.01.2025

Additional duty in administration :

- i) Member of the Committee for publishing farmer's bulletin
- ii) Member of the Venue management committee for the Convocation during 2018.
- iii) Member of the Competitive Examination cell of the UBKV
- iv) Member of Budget and Fund-raising committee for Regional Agricultural Fair held at UBKV, Pundibari during January, 2020.
- v) Member of the LLMC, Student Ready Programme of UG students 2019-20.
- vi) Manager, ELP on bio-control.
- vii) Member of Committee for Career Development Centre of UBKV
- viii) Member of Central UG Admission Committee of UBKV since 2021
- ix) Member of Technical Sub Committee of Nation Seminar organized by Faculty of Horticulture & NAHEB, UBKV.
- x) Member of the CLMC, Student Ready Programme of UG students since 2022.

- xi) Member of the Venue management committee for the Convocation during 2023.
- xii) Recommending Authority of WBHS in UBKV, Pundibari from since onwards.
- xiii) Member of the District level committee of “Hi-Tech Potato through Apical Rooted Cutting (ARC) Technology” of Cooch Behar district since 28.07.2025
- xiv) Member of Academic Council of UBKV, Pundibari

Chairman or Rapporteur of Seminar/ Meeting or Judge for Evaluation:

- i) Performed as **Rapporteur** in the Theme-V of National Seminar organized by Faculty of Horticulture & NAHEP, UBKV on 26-27th May, 2022.
- ii) Performed as Judge for poster evaluation in the **Theme: Crop Protection** in the National Seminar on “Climate Resilient and Input Efficient Agriculture for Food and Nutritional Security” organized by Directorate of Research, UBKV on 19-20 January, 2023.
- iii) Performed as **Rapporteur** in the Session-IV of Annual Group Meeting of AICRP-Biological Control held at UAS, Bengaluru on 20.10.22 to 21.10.22 (Hybrid Mode).
- iv) Acted as **Evaluator** in the Evaluation of Field Experiential Training (FET) of 112th Foundation Course of **ARS Probationers** at Cooch Behar KVK, Pundibari on 13.06.2023.
- v) Performed as **Rapporteur** in the Session- III: Biological suppression of pests of pulses and oil seeds of XXXII Annual Group Meeting of AICRP-Biological Control held at MPKV, Pune on 20.07.23 to 21.07.23.
- vi) Acted as Poster **Evaluator** in the one-day workshop (25 years of UBKV Brilliance: Harvesting achievement and sowing the future) organized by COBACAS, UBKV, Pundibari on 07.01.2026.

Member of Review Board of Journal:

1. Acta Scientific Agriculture (ISSN: 2581-365X)

Extension Folder/ Bulletins/ Manuals:				
Sl. No.	Title of bulletin	Year of publication	Published by	Compiled by
1.	Joibik upaye fosoler keetshotru niyontron	2018-19	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	B. Patra, Debanjan Chakraborty, Moulita Chatterjee and Shyamal Kumar Sahoo
2.	Rugose spiralling sadamachhi: Samprotik akromon o sotorkota	2019-20	Department of Entomology	Nripendra Laskar, Shyamal Kumar Sahoo, Debanjan Chakraborty and Moulita Chatterjee
3.	Biddhongsii ledapoka fall armyworm: Sotorkota ebong sombhabbo koroniyo	2019-20	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	Nripendra Laskar, Shyamal Kumar Sahoo, Debanjan Chakraborty and

				Moulita Chatterjee
4.	Joibojuktisommoto upaye foler machhir niyontroner jonno fnader byabohar	2019-20	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	Moulita Chatterjee, Shyamal Kumar Sahoo and Debanjan Chakraborty
5.	Joibo poddhotite gachher pusti o rog niyontron	2019-20	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	Anamika Debnath, Debanjan Chakraborty and Shyamal Kumar Sahoo
6.	Trichocard- Jaibik Upaye Fasaler Poka Niyantraner akti Notun Upay	2022-23	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	Moulita Chatterjee, Shyamal Kumar Sahoo, Anamika Debnath, B. Patra and Debanjan Chakraborty
7.	Dhaner Jamite Upakari Bondhu Poka o tader Sangrakhan	2023-24	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	Moulita Chatterjee, Shyamal Kumar Sahoo, Anamika Debnath, B. Patra, A. sankeerthana, P. Patel and Debanjan Chakraborty
8.	Entomopathogenic Fungi- A Biological weapon against insect pests	2024-2025	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	Samrat Saha, Moulita Chatterjee, B. Patra, Debanjan Chakraborty, Anamika Debnath, & Shyamal Kumar Sahoo
9.	Fosoler Kitshotru Niyontrone Joibik Podhotir Byaboharik Proyog	2025-26	All India Coordinated Research Project on Biological Control, Contingency centre, UBKV	B. Patra, Debanjan Chakraborty, Moulita Chatterjee, A. Debnath and Shyamal Kumar Sahoo

Newspaper Coverage on Extension activities of AICRP Biocontrol

Sl. No.	Headline of coverage	Date of release	Name of Newspaper
1.	Ramshai KVK-te Shibir	01.01.2020	Uttar Banga Sangbaad
2.	Nurpur-e Sorshe chashe beej o saar bitoron	25.11.2020	Uttar Banga Sangbaad
3.	Modhu o Sorshe Chase Ghoore Darachhe Nurpur graam	30.01.2021	Volka Samachar
4.	Alipurduar r Nurpur e lebu o litchu chara basano holo	26.07.21	Bardhaman Jyoti

5.	Kit Niyantrane	30.01.2022	Uttar Bnga Sangbad
6.	Prasikhan Sibir	18.03.2022	Ananda Bazar Patrika
Annual Report			
Sl. No.	Title	Year of publication	Published by
1.	Annual Report of AICRP-Biological Control of Crop Pests	2018-19	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
2.	Annual Report of AICRP-Biological Control of Crop Pests	2019-20	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
3.	Annual Report of AICRP-Biological Control of Crop Pests	2020-21	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
4.	Annual Report of AICRP-Biological Control of Crop Pests and Diseases	2021-22	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
5.	Annual Report of AICRP-Biological Control of Crop Pests and Diseases	2022-23	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
6.	Annual Report of AICRP-Biological Control of Crop Pests and Diseases	2023-24	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
7.	Annual Report of AICRP-Biological Control of Crop Pests and Diseases	2024-25	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar
Quinquennial Review Report (QRT)			
1.	QRT Report of AICRP-Biological Control of Crop Pests of 2017-22	2023	AICRP-Biological Control of Crop Pests (Contingency Centre), UBKV, Pundibari, Coochbehar

Organized training programme:

1. Organized training cum input distribution (Microbial agents and Pheromone traps) among tribal farmers under AICRP-Biological control on 13.03.19 at Kalchini, Alipurduar.
2. Training programme on Bee-keeping of tribal farmers at Dakshin Dinajpur on 25.02.19 under AICR-Biological control.
3. Training cum input distribution (Microbial agents and Pheromone traps) on 06.03.19 at Uttar Chakoakheti, Alipurduar.
4. Organized farmers training in connection with TSP programme of AICRP-Biocontrol on 25.10.19, 12.11.19 and 31.12.19 at Dakshin Latabari, Nimati Forest Range and Maynaguri, respectively.
5. Skill development training programme on beekeeping sponsored by ATARI, ICAR.
6. Skill development training programme on beekeeping under SCSP.
7. Organized training on cultivation practice of mustard under TSP of AICRP-Biological control on 17.11.2020 at Nurpur, Samuktala, Alipurduar.
8. Pests and disease management of mustard using botanicals and microbials on 24.11.2020 under TSP of AICRP-Biological control at Nurpur, Samuktala, Alipurduar.
9. Beekeeping for upliftment of rural livelihood on 08.01.2021 under TSP of AICRP-Biological control at Nurpur, Samuktala, Alipurduar.

10. Organized training cum input distribution (Saplings of litchi and citrus) among tribal farmers under AICRP-Biological control on 31.07.2021 at Samuktala, Alipurduar.
11. Organized training cum input distribution (bioagents) among tribal farmers under AICRP-Biological control on 17.03.2022 at Baniagaon, Samuktala, Alipurduar.
12. Organized training cum input distribution (bioagents) among tribal farmers under AICRP-Biological control on 24.03.2022 at Singimari.
13. Organized training programme on BIPM in rice among tribal farmers under AICRP-Biological control on 12.08.2022 at Singimari, Cocchbehar-II (No. of beneficiaries-25).
14. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 20.09.2022 at Singimari, Cocchbehar-II (No. of beneficiaries-20).
15. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 26.09.2022 at Baniagaon, Alipurduar (No. of beneficiaries-20).
16. Organized training on Seasonal and migratory bee-keeping under TSP of AICRP-Biological control on 18.11.2022 at Department of Entomology, UBKV, Pundibari (No. of beneficiaries-16).
17. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 13.02.2023 at Singimari, Coochbehar-II (No. of beneficiaries-20).
18. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 06.03.2023 at Baniagaon, Alipurduar (No. of beneficiaries-20).
19. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 23.08.2023 at Singimari, Patlakhawa (No. of beneficiaries-40).
20. Organized training programme for tribal farmers under AICRP-Biological control on 02.11.2023 at Deodanga, Alipurduar (No. of beneficiaries-40).
21. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 15.12.2023 at Singimari, Patlakhawa (No. of beneficiaries-40).
22. Organized training cum input distribution programme for tribal farmers under AICRP-Biological control on 06.03.2024 at Swami Vivekananda Auditorium, UBKV, Pundibari (No. of beneficiaries-70).
23. Organized training programme and distributed bio-inputs among tribal farmers under AICRP-Biocontrol on 27.11.2024 at Singimari, Patlakhawa, Cooch Behar-II (No. of beneficiaries-40).
24. Organized training programme and distributed bio-inputs among tribal farmers under AICRP-Biocontrol on 18.02.2025 at Swami Vivekananda Auditorium, UBKV, Pundibari (No. of beneficiaries-60).
25. Organized training programme and distributed bio-inputs among tribal farmers under AICRP-Biocontrol on 26.03.2025 at Dalgaon, Jateshwar, Falakata, Alipurduar district (No. of beneficiaries-50).
26. Organized training programme and distributed bio-inputs among tribal farmers under AICRP-Biocontrol on 02.09.2025 at Uttar Chakoakheti, Chilapata, Alipurduar-I district (No. of beneficiaries-60).
27. Organized training programme and distributed bio-inputs among tribal farmers under AICRP-Biocontrol on 20.11.2025 at Swami Vivekananda Auditorium, UBKV, Pundibari (No. of beneficiaries-60).
28. Organized training programme and distributed bio-inputs among tribal farmers under AICRP-Biocontrol on 03.02.2026 at Swami Vivekananda Auditorium, UBKV, Pundibari (No. of beneficiaries-50).

Delivered lecture:

1. In the DAESI programme held on 08.11.19 at Cob KVK.
2. Training of Extension Functionaries held on 11.02.2020 at Mathabhanga Sub-Division.
3. Virtual farmers training on “Use of bio-control agent (*Trichogramma chilonis*) for research and demonstration” conducted by Malda KVK held on 07.09.2021 (No. of SHG member-30)

4. Organic pest management in Medicinal plants organized by Basundhara, Khagrabari, Cooch Behar on 15.09.2021 sponsored by CADDC, Cooch Behar. (No. of SHG member-30)
5. In the DAESI programme (Batch-1) conducted by ATC, Cooch Behar on the topic entitled “Commercial Apiculture (Phase-1)” on 16.11.2021
6. In the DAESI programme (Batch-2) conducted by ATC, Cooch Behar on the topic entitled “Commercial Apiculture (Phase-1)” on 17.11.2021
7. In the DAESI programme (Batch-1) conducted by ATC, Cooch Behar on the topic entitled “Commercial Apiculture (Phase-2)” on 08.02.2022.
8. In the DAESI programme (Batch-2) conducted by ATC, Cooch Behar on the topic entitled “Commercial Apiculture (Phase-2)” on 09.02.2022.
9. In the training programme of Krishi Mitra under Kisan Kart in collaboration with KVK, Uttar Dinajpur, UBKV on the topic entitled “Use of bio-control agents for eco-friendly pests management” on 11.02.2022.
10. Delivered lecture on “Promotion of biological control for eco-friendly management of insect-pests” at ATC, Cooch Behar on 22.02.2022 (No. of SC farmers-30).
11. Delivered lecture on “Bioagents and bio-pesticides for management of insect-pests in different crops” at ATC, Cooch Behar on 01.03.2022 (No. of tribal farmers-30).
12. In the school at Baguihati, Kolkata on Awareness about the biological control of insect pests on 02.11.2021
13. Delivered lecture in the DAESI programme on “Biological control of insect-pests” at ATC, Cooch Behar on 22.03.2022 (No. of input dealers-30).
14. Delivered lecture in the DAESI programme on “Biological control of insect-pests” at ATC, Cooch Behar on 23.03.2022 (No. of input dealers-30).
15. Delivered lecture in the DAESI programme on “Promotion of Biological control for eco-friendly management of insect-pests” at ATC, Cooch Behar on 07.06.2022 (No. of input dealers-40).
16. Delivered lecture in the DAESI programme on “Promotion of Biological control for eco-friendly management of insect-pests” at ATC, Cooch Behar on 09.06.2022 (No. of input dealers-40).
17. In the DAESI programme 19th and 20th week class (TP no. -1936 & 1937) conducted by ATC, Cooch Behar on the topic entitled “Commercial Apiculture” on 16.08.2022 (No. of input dealers-40).
18. In the DAESI programme 19th and 20th week class (TP no. -1936 & 1937) conducted by ATC, Cooch Behar on the topic entitled “Commercial Apiculture (Phase-2)” on 18.08.2022 (No. of input dealers-40)..
19. In the Certificate Course on Insecticides Management (CCIM) conducted by ATC, Cooch Behar on the topic entitled “Mass Production of bioagents” on 20.12.2022 (2.00PM) (No. of input dealers-40).
20. In the Certificate Course on Insecticides Management (CCIM) conducted by ATC, Cooch Behar on the topic entitled “Safe Use of pesticides on Natural enemies” on 20.12.2022 (4.00PM) (No. of input dealers-40).
21. In the Certificate Course on Insecticides Management (CCIM) conducted by ATC, Cooch Behar on the topic entitled “Insecticides resistance management” on 10.01.2023 (2.00PM) (No. of input dealers-40).
22. In the Certificate Course on Insecticides Management (CCIM) conducted by ATC, Cooch Behar on the topic entitled “Pesticides application equipment” on 10.01.2023 (4.00PM) (No. of input dealers-40).
23. Participated in the Awareness cum Farmers Scientist internation programme on Natural Farming at ATIC Auditorium organized by the DEE in collaboration with KVK, Coochbehar on 01.02.2023 (University Foundation Day).
24. In the Skill Development Training of Organic growers conducted by Faculty of Horticulture, UBKV on the topic entitled “Eco-friendly management of insect-pest with biological approaches” on 09.02.2023 (No. of trainees- 15).

25. Delivered lecture in the DAESI programme on “Apiculture” at ATC, Cooch Behar on 10.05.23 (No. of input dealers-40).
26. Delivered lecture in the DAESI programme on “Biological Control of Insect pests” at KVK, Cooch Behar on 31.08.23 (No. of input dealers-40).
27. Deliver lecture in the State level Officers training programme under NFSM-Jute on 01.02.2024 at DDA (Admin.) office, Cooch Behar.
28. Deliver lecture in the Officers/ Extension workers training programme under TRFA-Oilseeds on 09.02.2024 at ADA (Admin.) Office, Mathabhanga Sub-Division.
29. Delivered lecture in the DAESI programme on “Apiculture” at ATC, Cooch Behar on 28.11.2024 (No. of participants-40).
30. Delivered lecture in the **Winter School organized by UBKV, Pundibari** on the topic “Impact of climate change on dynamics of insect-pests along with alien invasive pests and their management” at ATC, Cooch Behar on 25.02.2025
31. Delivered lecture in the residential training programme on scientific bee keeping on the topic entitled “Insect-pests and diseases associated with honeybee and their management” at KVK, Cooch Behar on 07.03.25 (No. of farmers-30).
32. Delivered lecture on “Rearing of Non-Mulberry Silk worm” in the Summer Internship Programme at A. B. N. Seal College on 18.06.2025.
33. Delivered lecture in the DAESI programme on “Apiculture” at ATC, Cooch Behar on 16.09.2025 (No. of input dealers-40).

Radio Programme

1. Recording on “Beekeeping for livelihood improvement of rural people” at AIR, Siliguri on 15.02.2023
2. Live Phone in Programme on “Biological pests management” at Radio Centre, PBU, Cooch Behar on 20.02.2023
3. Recording on “Jaibik Upayee Fasaler Kit Satru Niyantran” at AIR, Siliguri on 19.12.2025.
4. Recording on “Lavjonak Adunik Padhyatitey Moumachi Palan” at AIR, Siliguri on 07.02.2026.

Biological Control agent maintained and sold:

1. Microbials like *Thichogramma chilonis* and *T. japonicum* are being maintained in our Institute for demonstration, sell and distribution among farmers.
2. Low cost fruit fly trap are being prepared for selling as well as distribution among farmers.
3. *Beauveria bassiana* isolated from infected bark eating caterpillar of litchi from Pundibari and pure culture is being maintained for mass multiplication.

NCBI Accession Number

1. Submitted the gene sequence of *Beauveria bassiana* (UBKV Bb1) isolated from infected bark eating caterpillar of litchi from Pundibari to NCBI (Accession no. OM762704).
2. Submitted the gene sequences of *Spodoptera frugiperda* collected from maize in Cooch Behar to NCBI (Accession no. MN187007; MN218588; MN218589; MN233305) and made the bar code of MN187007.
3. Submitted the gene sequences of *Carpophilus dimidiatus* (Nitidulidae; Coleoptera) collected from Cooch Behar to NCBI (Accession no. OP346785) on October, 2022.

- Submitted the gene sequence of different aphid species collected from terai and hill zone of West Bengal and received Accession numbers.

Organized webinar under CDC:

- Webinar series-1 on “Career development centre: A single window system for career opportunities in Agricultural Higher Education Institute (AHEI)” as Co-Coordinator on 24.09.2021.
- Webinar series-2 on “Career development centre: A single window system for career opportunities in Agricultural Higher Education Institute (AHEI) for Entrepreneurship Development” as Co-Coordinator on 01.10.2021.
- Webinar series-5 on “Career development centre: A single window system for career opportunities in Agricultural Higher Education Institute (AHEI) for Competitive Examination in Agriculture (ARS/SRF/NET/JRF)” as Co-Coordinator on 02.02.2022.
- Webinar series-6 on “Career development centre: A single window system for career opportunities in Agricultural Higher Education Institute (AHEI) for Personality Development & Communication Skill” as Co-Coordinator on 04.02.2022.
- Two days Workshop on “Design Thinking and Innovation” as Co-Coordinator on 14th -15th March, 2022.

Reviewer of Research Paper/ Book Chapter:

Sl. No.	Date	Research paper/ Book Chapter	Name of the Journal/ Book
1.	12.12.2021	Efficacy of some novel insecticides against gram pod borer (<i>Helicoverpa armigera</i> Hub.) infesting chickpea.	Journal of Crop and Weed (ISSN 0974 6315)
2.	28.06.2022	Influence of different companion crops on major sucking pests in the brinjal ecosystem.	Journal of Crop and Weed (ISSN 0974 6315)
3.	27.09.2022	Assessment of crop loss of okra due to damage by the major insect pests.	Int. J of Bio-resource and Stress Management (ISSN 0976-3988)
4.	01.01.2023	Susceptibility of rice weevil to insecticides having different mode of action.	Pesticide Research Journal (ISSN 0970-6763)
5.	31.01.2023	Impact of weather factor on population fluctuation of Chilli thrips, <i>Scirtothrips dorsalis</i> Hood.	Int. J of Bio-resource and Stress Management (ISSN 0976-3988)
6.	14.05.2023	Biochemical basis of resistance to rice leaf folder	Int. Journal of Plant and Soil Science (ISSN 2320-7035)
7.	15.06.2023	Invasion of Rogose Spiralling Whitefly on minor fruits as well on medicinal, aromatic and ornamental plants in India- Current Scenario	Int. Journal of Minor Fruits, Medicinal and Aromatic Plants (ISSN 2424-6921)
8.	16.08.2023	Diversity of bee flora in Kashmir Valley	Annual Research & Review in Biology (ISSN 2347-565X)
9.	03.09.2023	Monitoring of Arthropod Complex associated with	Int. Journal of Plant & Soil

		Rapeseed- mustard crop in Kashmir Himalayas	Science (ISSN 2320-7035)
10.	16.09.2023	Bioassay of Entomopathogenic fungi, <i>Beauveria bassiana</i> (Balsam) Vuillemin isolates against <i>Spodoptera litura</i> (Fab.)	Pesticide Research Journal (ISSN 0970-6763)
11.	15.10.2023	Infection of bacterial endosymbionts in rice weevil, <i>Sitophilus oryzae</i> Linnaeus (Coleoptera: Curculionidae) populations of North India	Journal of Environmental Biology (ISSN 0254-8704) Print
12.	28.01.2024	Molecular Identification, Isolated Bacteria and Control Studies on <i>Aedes aegypti</i> (L.), the Vector of Dengue Fever in Saudi Arabia.	Journal of Environmental Biology (ISSN 0254-8704) Print
13.	07.02.2024	A novel host-parasitoid association of <i>Spodoptera pecten</i> (Guenée) (Lepidoptera: Noctuidae) and <i>Telenomus remus</i> Nixon (Hymenoptera: Scelionidae), evidenced by molecular studies.	Int. J. of Tropical Insect Science (ISSN: 1742-7584)
14.	06.11.2024	Study on Influence of storage conditions on viability and infectivity of <i>Beauveria bassiana</i> ,WP formulation against rice hispa, <i>Diadisa armigera</i> (Olivier), Chrysomelidae Coleoptera	Book Chapter in the Book: Contemporary Research and Perspectives in Biological Science
15.	16.11.2025	Influence of sowing dates and climatic factors on dynamics of linseed bud fly (<i>Dasineuralini</i> Barnes) infestation and yield of linseed in Central Vidarbha region of Maharashtra.	Journal of Environmental Biology (ISSN 0254-8704) Print

Declaration

I hereby declare that all the information furnished by me is true to the best of my knowledge and belief.

Place: Pundibari.

Shyamal Kr. Sahoo
(Signature)