

CURRICULUM VITAE

Name : DR. SUPRAKASH PAL
Date of Birth : 22.09.1974
Designation : Associate Professor
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Academic Qualification:

| Examination passed | Board/University | Year of passing | Percentage of marks obtained | Division /Class |
|--|------------------|-----------------|------------------------------|-----------------|
| Madhyamik Pariksha | W.B.B.S.E. | 1991 | 77.33 | 1 st |
| Higher Secondary (10+2) | W.B.C.H.S.E. | 1993 | 77.10 | 1 st |
| B. Sc. (Ag) Hons. | B.C.K.V. | 1997 | 76.20 | 1 st |
| M. Sc. (Ag) in Agricultural Entomology | B.C.K.V. | 2000 | 83.40 | 1 st |
| Ph. D. | Visva-Bharati | 2014 | 93.00 | 1 st |

Awards/Special Recognitions:

| Name | Awarded by |
|------------------------------|-------------|
| NET Qualification | ICAR |
| University Merit Scholarship | BCKV |
| Senior Research Fellowship | NATP (ICAR) |

Working in UBKV since : 10.12.2001

Employment Particulars:

| Sl. No. | Rank | Period | <u>Department /Establishment</u> |
|----------------|---------------------------------|----------------------------------|--|
| i) | Senior Research Fellow(NATP) | September, 2000 – December, 2001 | Department of Agricultural Entomology, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal |
| ii) | Assistant Professor (Stage-I) | December, 2001- December, 2007 | Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong, Darjeeling, West Bengal |
| iii) | Assistant Professor (Stage –II) | December, 2007 – May, 2014 | Regional Research Station (Hill Zone), Uttar Banga Krishi Viswavidyalaya, Kalimpong, Darjeeling, West Bengal |
| iv) | Assistant Professor (Stage –II) | May, 2014 – October, 2014 | AINP on Jute and Allied Fibres, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar |
| v) | Associate Professor (Stage-I) | October, 2014 - continuing | Regional Research Station (Terai Zone), Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal |

Professional Training :

1. Participated in the short course “Introduction to Biosystematics of Insects, Mites, Spiders and their Biodiversity” conducted by the National Bureau of Agriculturally Important Insects (NBAIL), Bangalore from 14th - 23rd November, 2011.
2. Participated in the training programme on DATA ANALYSIS USING SAS, of the NAIP consortium “Strengthening Statistical Computing for NARS” funded by National Agricultural Innovation Project at Uttar Banga Krishi Viswavidyalaya, Cooch Behar during 19-24 September, 2011.

3. Attended the Centre of Advanced Studies in Entomology Training on “Recent Advances in Integrated Pest Management” from 21st February -13th March, 2007 at the Department of Agricultural Entomology, Centre of Advanced studies in Entomology, Tamil Nadu Agricultural University, Coimbatore.
4. Participated in the summer school on “Arthropod Diversity and Their Role in Sustainable Agricultural Development” from 5th - 25th December, 2005 at the Department of Agricultural Entomology, Centre for Plant Protection Studies, Tamil Nadu Agricultural University, Coimbatore.
5. Participated in the summer school on “Pesticides, Their Ecological Impact and Alternatives for Sustainable Pest Management” from 10th – 30th September, 2003 at the Department of Entomology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture and Technology, Udaipur.

Recognitions:

| Items | Year | Awarding Organization |
|--|---------------------|--|
| Editorial Board Member for ‘International Journal of Bio-resource and Stress Management’ (4.46/20 NAAS rating) | 2016-17 | Puspa Publishing House, Kolkata, India |
| External examiner/Paper setter (UG/PG) | 2014, 2015 and 2016 | Visva-Bharati, Santiniketan |
| Reviewer for ‘Brazilian Archives of Biology and Technology’ (6.55/20 NAAS rating) | May, 2016 | Technology Institute of Paraná , Brazil |
| Reviewer for ‘Journal of Threatened Taxa’ (4.72/20 NAAS rating) | January, 2016 | Wildlife Information Liaison Development (WILD) Society, Coimbatore, India |
| Reviewer for ‘Agricultural Science Research Journal’ | December, 2015 | International Research Journals, Ghana |

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|--|------------------------|---|
| Member of monitoring team to Nagaon Centre, AINP-JAF | July 24, 2014 | AINP-JAF, CRIJAF, Barrackpore |
| Agromet Advisory Expert Board Member | June, 2008 - May, 2014 | Agro Met Field Unit (AMFU), UBKV, Kalimpong |

Patents : Nil

Fellow of the Society :

1. Life Fellow of the Entomological Society of India (ESI), New Delhi (2008)
2. Life Member of the Society for Biocontrol Advancement (SBA), Bangalore (2011)
3. Life Member of the Association for Advancement of Pest Management in Horticultural Ecosystems (AAPMHE), Bangalore (2011)
4. Life Member of the Entomological Research Association (ERA), Udaipur (2003)
5. Life Member of the Cooch Behar Association for Cultivation of Agricultural Sciences (COBACAS), Pundibari (2014)

Research Interests and area of specialization:

Research Interests: Arthropod Diversity in Agroecosystems, Conservation Biological Control (CBC), Pests of Commercial Flowers

Area of Specialization: Economic Entomology

Research Publications:

1. **Pal, Suprakash** and Satpathi, Sumit K. 2016. Species Richness and Relative Abundance of Pest Faunal Complex Infesting Okra under Mill-Hill Conditions of Eastern Himalayas. *Journal of Agriculture and Technology* (Accepted)
2. **Pal, S.**, Chatterjee, H. and Senapati, S.K. 2015. Influence of Abiotic Factors on Pheromone Trap Catches and Field Infestation of *Helicoverpa armigera* on Carnation (*Dianthus caryophyllus*) in Hilly Region of West Bengal, India. *International Journal of Bio-resource and Stress Management*, **6(6)**: 695-699. DOI: 10.5958/0976-4038.2015.00107.4

3. **Pal, S.**, Sarkar, I., Chatterjee, H. and Senapati, S.K. 2015. Varietal reaction of carnation to bud borer, *Helicoverpa armigera* (Hubner) in relation to plant characters. *Pest Management in Horticultural Ecosystems*, **21**(1): 49-54.
4. **Pal, S.**, Chatterjee, H. and Senapati, S.K. 2014. Monitoring of *Helicoverpa armigera* using pheromone traps and relationship of moth activity with larval infestation on carnation (*Dianthus caryophyllus*) in Darjeeling Hills. *Journal of Entomological Research*, **38**(1): 23-26.
5. **Pal, S.**, Chatterjee, H. and Senapati, S.K. 2013. Bioefficacy and Economics of Biopesticides and Insecticides against Carnation Bud Borer, *Helicoverpa armigera* (Hubner). *Indian Journal of Ecology*, **40**(2): 195-200.
6. **Pal, S.**, Ghimiray, T.S. and Sharma, B.R. 2013. Reaction of soybean cultivars to leaf folder, *Nacoleia* spp. (Lepidoptera: Pyralidae) under mid hill conditions of Darjeeling, West Bengal. *Agricultural Science Digest*, **33**(4): 327-328.
7. Mani, Jugal K. and **Pal, Suprakash** 2013. Influence of weather factors on the abundance of flea beetle (*Nisotra chrysomeloides* Jacoby) infesting okra. *Crop Research*, **46** (1, 2 & 3): 208-211.
8. **Pal, S.** and Ghimiray, T.S. 2010. Occurrence of insect pests on frenchbean, *Phaseolus vulgaris* L. in Darjeeling hills. *The Journal of Plant Protection Sciences*, **2**(2): 80-84.
9. **Pal, S.** and Sarkar, I. 2010. Studies on the pest incidence and varietal reaction of spray type carnation under mid-hill conditions of Kalimpong, West Bengal. *Journal of Ornamental Horticulture*, **13**(2): 127-132.
10. **Pal, S.** and Sarkar, I. 2009. Pests infesting ornamental plants in hilly region of West Bengal. *The Journal of Plant Protection Sciences*, **1**(1): 98-101.
11. Choudhury, S. and **Pal, S.** 2009. Population dynamics of mustard aphid on different *Brassica* cultivars under terai agro-ecological conditions of West Bengal. *The Journal of Plant Protection Sciences*, **1**(1): 83-86.
12. **Pal, S.**, Maitra, S. and Sarkar, I. 2009. Record of Common Rose Butterfly, *Pachliopta aristolochiae* (Fab.) on Medicinal Plant, *Aristolochia indica* L. in Terai region of West Bengal. *Insect Environment*, **15**(1): 17-18.
13. Jana, K. and **Pal, S.** 2008. Biology of mustard aphid, *Lipaphis erysimi* (Kalt.) on certain *Brassica* genotypes. *Journal of Applied Zoological Researches*. **19** (2): 145-146.

14. **Pal, S.** and Choudhuri, P. 2007. Insect pests of Paprika (*Capsicum annum* L. var. longum) in terai region of west Bengal. *Agricultural Science Digest*. **27**(2): 138-139.
15. Choudhury, S. and **Pal, S.** 2006. Pest complex and their succession in mustard under terai ecological conditions of West Bengal. *Indian Journal of Entomology*. **68**(4): 387-395.
16. **Pal, S.** and Medda, P.S. 2006. Frequent outbreaks of wild silk moth, *Cricula trifenestrata* (Helfer) in West Bengal. *Insect Environment*. **12**(3): 99.
17. **Pal, S.** 2006. Bugs infesting paddy earheads at Pundibari in terai region of West Bengal. *Research on Crops*. **7**(2): 600-601.
18. **Pal, S.** and Medda, P.S. 2006. Occurrence of wild silk moth, *Cricula trifenestrata* (Helfer) on Cashew, *Anacardium occidentale* L. under terai conditions of West Bengal. *The Orissa Journal of Horticulture*. **34**(1): 117.
19. **Pal, S.** and Bandyopadhyay, S. 2006. Field evaluation of some maize germplasms against stem borer, *Chilo partellus* (Swinhoe) and aphid, *Rhopalosiphum maidis* (Fitch.). *Journal of Applied Zoological Researches*. **17**(1): 13-14.
20. Choudhury, S. and **Pal, S.** 2005. Efficacy of some newer insecticides against mustard aphid, *Lipaphis erysimi* Kalt. *Shashpa*. **12**(2): 125-126.
21. Choudhury, S. and **Pal, S.** 2005. Population dynamics of mustard flea beetle, *Phyllotreta cruciferae* on varieties of *Brassica*. *Annals of Plant Protection Sciences*. **13**(2): 477-478.
22. Jana, K. and **Pal, S.** 2005. Assessment of loss in yield of *Brassica juncea* caused by *Lipaphis erysimi* (Kalt.) under terai agro-ecological conditions of West Bengal. *Annals of Entomology*, **23**(1-2):5-11.
23. **Pal, S.** and Bandyopadhyay, S. 2005. Effect of different sowing dates on the infestation of aphid, *Rhopalosiphum maidis* on some maize varieties. *Indian Journal of Applied Entomology*. **19**(1): 55-57.
24. Chaudhuri, N., **Pal, S.** and Senapati, S..K. 2004. Fruit damage potential of *Earias Vittella* (Fab.) as influenced by physical characters of okra fruit. *Indian Journal of Entomology*. **66**(4): 372-374.
25. **Pal, Suprakash.** 2003. Effect of Vitamin B-Complex supplementation on the growth and development of mulberry silkworm, *Bombyx mori* (L.). *Insect Environment*. **8**(4): 150.
26. **Pal, Suprakash** and Chaudhuri, Nilanjana. 2003. Distribution pattern of jassid *Amrasca biguttula biguttula* as influenced by the leaf hairiness of okra. **In: Proceedings of the**

National Symposium on Frontier Areas of Entomological Research, 5-7 November, Division of Entomology, IARI, New Delhi, p.110.

27. **Pal, Suprakash** and Choudhuri, Partha. 2003. Reaction of some coriander varieties to aphid, *Hyadaphis coriandri* (Das) under terai ecological conditions of West Bengal. *The Orissa Journal of Horticulture*. **31**(2): 105-106.
28. **Pal, Suprakash** and Datta, Madhuri. 2003. Effect of Vitamin-C supplementation on the growth and development of mulberry silkworm, *Bombyx mori* L. *Journal of Current Sciences*. **3**(2): 409-412.
29. Chatterjee, Hirak and **Pal, Suprakash**. 2002. Pathogenicity of some naturally occurring microbes against important lepidopteran pests in terai region of West Bengal. *Pest Management and Economic Zoology*. **10**(2): 173-178.
30. **Pal, Suprakash** and Datta, Madhuri. 2002. Effect of Vitamin-E supplementation on the growth and development of mulberry silkworm, *Bombyx mori* L. *Environment and Ecology*. **20**(2): 391-393.

Books or Chapter in Books:

1. **Pal, S.** and Bandyopadhyay, S. 2005. Studies on occurrence and succession of pests of maize under terai ecological conditions of West Bengal. **In:** *Stress Biology* (Eds. Usha Chakraborty and Biswanath Chakraborty), Narosa Publishing House, New Delhi, India. pp. 243-246. (ISBN 81-7319-665-6)

Variety Release etc.: None

Courses teaching:

Under-Graduate

ENT 301- Crop pests and Stored Grain Pests and their Management

ENT 401- IPM (Pest Scouting)

Post-Graduate

ENT 501- Insect Morphology

ENT 503- Principles of Taxonomy and Classification of Insects

ENT 504- Insect Ecology

ENT 510- Pests of Field, Horticultural and Plantation Crops and Storage Entomology

ENT 602- Insect Behaviour

ENT 603- Recent Trends in Biological Control

ENT 608- Advanced Integrated Pest Management

Research Projects/supports:

| Sl. No | Project title | Funding Agency | Period | Role | Amount sanctioned |
|--------|---|---------------------|---------|-------|-------------------|
| a) | All India Network Project | | | | |
| 1. | All India Network Project on Jute and Allied Fibres | ICAR | 2014-15 | PI | - |
| b) | Ad-hoc Research Project (Completed) | | | | |
| 1. | Search for Natural Pesticides Compatible with IPM and Organic Farming from the Plant Biodiversity of Northern Region of West Bengal | RKVY, Govt. of W.B. | 2010-13 | Co-PI | 26.24 lakh |
| 2. | Development of hill agriculture through low cost protective cultivation of horticultural crops under organic system of production | RKVY, Govt. of W.B. | 2010-13 | Co-PI | 48.20 lakh |
| c) | Ad-hoc Research Project (On-going) | | | | |
| 1. | Evaluation of pesticide molecules in Brinjal and Onion | UPL Limited | 2015-17 | PI | 4.68 lakh |
| d) | Other Research Project (On-going) | | | | |
| 1. | Development of DUS standards using morphometrics and molecular markers in local cultivars of potato collected from different districts of West Bengal | Institute | 2015-20 | Co-PI | 10.25 lakh |
| 2. | A study on exploration, characterization and conservation of brinjal (<i>Solanum melongena</i> L.) germplasm in Eastern India | Institute | 2015-20 | Co-PI | 12.00 lakh |

Seminar/Symposia/Conference/Workshop Attended:

| Sl. No | Name of Seminar/Symposia/Conference/Workshop | Period | Place |
|--------|--|----------------|----------------------------|
| 1 | National Seminar on Resource based inclusive Agriculture and Rural Development : Opportunities and Challenges | 15-16 Jan 2016 | RKMVU, Narendrapur, WB |
| 2 | National Conference on Bioresources Management for Sustenance of Ecosystem and Livelihood | 26-29 Nov 2015 | UBKV, Pundibari, WB |
| 3 | 28 th Annual Workshop of AINP (Jute & Allied Fibres) | 13-14 Feb 2015 | CRIJAF, Barrackpore, WB |
| 4 | International Conference on Horticulture for Nutritional, Livelihood and Environmental Security in Hills: Opportunity and Challenges | 22-24 May 2014 | Kalimpong, WB |
| 5 | National Conference on Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood | 5-7 Mar 2014 | Pundibari, WB |
| 6 | National Seminar on Agriculture and Bio-Security in Changing Scenario | 1-3 Feb 2014 | Sriniketan, WB |
| 7 | National Symposium on Current Perspectives in Stress Biology | 6-8 Feb 2004 | Siliguri, WB |
| 8 | National Symposium on Frontier Areas of Entomological Research | 5-7 Nov 2003 | New Delhi |
| 9 | State Level Seminar on Spices Production, Processing and Marketing in West Bengal | 25-26 Feb 2003 | Pundibari, WB |

Laboratory strength, you work in: Fair

Number of scholars, you are supervising (MSc & PhD): Passed out-2, Ongoing-2

Students Guided for Their M.Sc. and Ph.D. Degrees:

| Sl. No. | Name and Admission no. | Title of Thesis | Programme | Year of Completion |
|---------|--|--|-----------|--------------------|
| 1 | Sandipan Choudhury (Agri-167 of 2002-03) | Pest complex of Rapeseed-Mustard with special reference to population dynamics of important insect pests on some <i>Brassica</i> varieties in relation to abiotic and biotic | M.Sc. | 2004 |

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|---|--|--|-------|------|
| | | factors | | |
| 2 | Kakali Jana (Agri-44 of 2001-02) | Study on the developmental biology and yield loss assessment of Mustard Aphid, <i>Lipaphis erysimi</i> (Kalt.) under terai agro ecological conditions of West Bengal | M.Sc. | 2005 |

Additional duty in administration:

1. In-Charge, All India Network Project on Jute and Allied Fibres, UBKV from 16.07.14 to 04.02.15

Extension Experience:

1. Associated as resource person in about 50 numbers of farmers training/training for AEO
2. Participated as resource person in TV programmes (Doordarshan & Etv Bangla)
3. Leaf let (Bengali): 2

Research Achievements (Technology refinement):

1. Identified pest problems in commercial flowers in polyhouse and open field with particular reference to carnation
2. Developed forecasting technology of larval population of bud borer in carnation on the basis of pheromone trap catch data
3. Identified carnation varieties (both standard and spray type) tolerant to bud borer
4. Developed eco-friendly management strategies for bud borer in carnation under protected cultivation
5. IPM technologies like use of tolerant varieties and pheromone traps for the management of carnation bud borer were popularized amongst the farmers of Darjeeling district
6. Reported 10 species of coccinellid from agroecosystems of North Bengal after authorized identification
7. Assessed the ETL value for mustard aphid under Pundibari conditions
8. Identified varieties of soybean tolerant to leaf folder under Kalimpong conditions
9. Determined the impact of weather variables on the abundance of okra flea beetle under Kalimpong conditions

10. Determined suitable sowing time of kharif maize for optimized grain yield with respect to aphid infestation