



**D r . P e r i y a s a m y  
N e e l a n a r a y a n a n**

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**OFFICE ADDRESS: Associate Professor and Head**

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Centre for Eco-friendly Agro-Technologies (CEAT),  
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Post Graduate and Research Department of Zoology,  
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Tiruchirappalli – 621 216, Tamil Nadu.

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**Date of Birth: 15-06-1967; Date of Retirement: 30-06-2027**

Father's Name : D. Periyasamy

Nationality & Religion : Indian & Hindu

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*Curriculum Vitae of Dr. PERIYASAMY NEELANARAYANAN, Ph.D.,  
(Updated up to March, 2024)*

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**Academic Records**

<b>Exams. Passed</b>	<b>Name of the Institution / University</b>	<b>Year of Passing</b>	<b>Class &amp; % of Marks</b>	<b>Special Subjects</b>
B.Sc. Zoology	Govt. Arts College, Salem - 7. University of Madras.	April 1987	First 61.6	Botany, Chemistry Sericulture
M.Sc. Zoology <b>Second Rank</b>	Annamalai University Annamalainagar	May 1989	First 70.5	Biophysics, Biochemistry and Biostatistics <b>Optional: Entomology</b>
M.Phil. Zoology <b>First Rank</b>	A.V.C. College (Autonomous), Mannampandal, Bharathidasan University, Tiruchirappalli.	October 1990	First 77.0	Research Methodology, Environmental Biology and <b>Ecology of Rodents</b>
B.Ed.	Annamalai University Annamalainagar	June 1991	Second 52.5	Zoology I & II
Ph.D. Zoology	Bharathidasan University, Tiruchirappalli	Dec. 1997	Commended	<b>Bio-Control of Rodent pests by Barn owl</b>

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**Computer Skills**

Microsoft Office

Acted as an ASSISTANT TO CHIEF SUPERINTENDENT for conducting UNIVERSITY OF MADRAS Theory Examinations. – (April/May 1997,1998,1999,2000 &October / November 1998/1999).

AWARD RECEIVED – Received “BEST EMPLOYEE” award for the academic year 1998-1999 from HINDUSTAN COLLEGE OF ARTS & SCIENCE, Padur, Kelambakkam-603 103, India.

**ORIENTATION PROGRAMME ATTENDED**

Attended 64th ORIENTATION PROGRAMME conducted by UGC-ACADEMIC STAFF COLLEGE of PONDICHERRY UNIVERSITY, PONDICHERRY, between 06-11-2001 and 03-12-2001.

**REFRESHER COURSES ATTENDED**

Attended a Refresher course on “Biotechnology and Bioinformatics” conducted by UGC – ACADEMIC STAFF COLLEGE, BHARATHIAR UNIVERSITY, COIMBATORE between 01-11-2006 and 21-11-2006.

Attended a Refresher course on “Environmental Education” conducted by UGC – ACADEMIC STAFF COLLEGE, BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI between 10-10-2008 and 30-10-2008.

### **THESES SUBMITTED**

**Neelanarayanan, P.** 1990. Laboratory studies on the effect of Zinc phosphide on the Biochemistry, Histology and Haematology in selected tissues of the soft-furred rat, *Millardia meltada* (Gray). **M.Phil., dissertation.** Bharathidasan University, Tiruchirappalli.

**Neelanarayanan, P.** 1997. Predatory pressure of Barn owl (*Tyto alba stertens* Hartert, 1929) on Rodent Pests - A Field Evaluation. **Ph.D., dissertation,** Bharathidasan University, Tiruchirappalli.

### **RESEARCH EXPERIENCE**

Worked as a **SENIOR RESEARCH FELLOW** in Indian Council of Agricultural Research Scheme entitled "Ecology of Barn owl, *Tyto alba* and its predatory pressure on the rodent pests of agricultural importance (**Since 16.12.1992 to 12.07.1996**), in A.V.C. College, Mayiladuthurai, Tamil Nadu.

### **TEACHING EXPERIENCE**

Handled **Under Graduate and Post Graduate Zoology and Wildlife Biology classes** for a period of three and half years in **A.V.C. College, Mayiladuthurai (16.12.1992 to 12.07.1996).**

I worked as a **Lecturer in Entomology** in **Hindustan College of Arts & Science, Padur, Kelambakkam near Chennai from 15.07.1996 to 08.08.2000.**

Joined as **Lecturer in Zoology** in **Nehru Memorial College (Autonomous), Puthanampatti - 621 007, Tiruchirappalli District on 09.08.2000 and work here until today.**

### **Teaching experience:**

- i) Graduate Level: **28 (Twenty Seven) plus years**
- ii) Post Graduate Level: **10 (TEN) years**
- iii) Others (specify)

**MPhil: 21 (Twenty) years**

**PhD: 21 (Twenty) years**

### **RESEARCH PROJECTS GUIDED AT POST GRADUATE LEVEL STUDENTS**

#### **2004-2005:**

Kokila, A. Burrow Anatomy of Indian Bush Rat, *Golunda ellioti*.

Rani, T. Burrow Architecture of Spiny Field Mouse, *Mus platythrix*.

Sasikala, G. Rodent pest management practices of Rice farmers in Tiruchirappalli District, Tamil Nadu.

#### **2005-2006**

Anitha, S. Effect of *Vitex negundo* plant leaves extract against the pest of Castor, woolly bear, *Pericallia ricini*.

Indira, P. Effect of *Calotrophis gigantea* plant leaves extracts on the feeding activities of the pest of Castor, woolly bear, *Pericallia ricini*.

Santhi, M. Additive effects of *Vitex negundo* and *Calotrophis gigantea* plant leaves extracts on the feeding activities of the pest of Castor, woolly bear, *Pericallia ricini*.

#### **2006-2007**

Indira Gandhi, R. Efficacy of sex pheremone lures of (*Oryza sativa*) yellow stem borer (*Scirpophaga incertulas*) under field conditions.

Padmavathi, S. Magnitude of management of Red Palm Weevil (*Rhynchophorus ferrugineus*) in coconut palm (*Cocos nucifera*) and oil palm (*Elaeis guineensis*) plantations.

Rajalakshmi, L. Utilization of aggregation pheremone for the management of Rhinoceros beetle (*Oryctes rhinoceros*) in coconut palm (*Cocos nucifera*) and oil palm (*Elaeis guineensis*) groves.

Sathya, C. Management of rodent pests using an eco-friendly Tanjore – Bow trap in irrigated rice fields in Tiruchirappalli District, Tamil Nadu.

#### **2007-2008**

**Umananthini, S.** Production of Vermiwash from an epigeic earthworm (*Eudrilus eugeniae*) and its chemical composition.

**Rajeswari, M.** Production of Vermiwash from earthworms (*Eudrilus eugeniae*, *Perionyx excavatus*, *Lampito mauritii*) and its chemical composition.

**Selvi, K.** Production of Vermiwash from earthworm (*Lampito mauritii*) and its chemical composition.

**Poongodi, A.** Production of Vermiwash from an epigeic earthworm (*Perionyx excavatus*) and its chemical composition.

#### **2008 – 2009**

**Porkizhi, S.** Determination of a best mesh size for sieving of vermicompost produced by *Eudrilus eugeniae*.

**Karuppannan, P.** Determination of a best mesh size for sieving of vermicompost produced by *Lampito mauritii*.

**Sivakumar, S.** Determination of a best mesh size for sieving of vermicompost produced by *Perionyx excavatus*.

#### **2020-2021**

**Lakshmanan, G.** Food composition of Brown fish owl (*Ketupa zeylonensis* GMELIN, 1788) in Tiruchirappalli district, Tamil Nadu, India.

### **RESEARCH PROJECTS GUIDED AT PRE-DOCTORAL (M.Phil.) LEVEL STUDENTS**

#### **2005-2006**

Sasikala, G. Food and reproductive habits of a commensal rodent, *Rattus rattus* (Linnaeus) in Valayapatti, Tiruchirappalli District, Tamil nadu.

#### **2006-2007**

**Bharathiraja, A.** Bio-conversion of coir-wastes (*Cocos nucifera*) into vermicompost using an epigeic earthworm, *Eudrilus eugeniae* and its nutritive values.

**Ambiga, G.** Utilization of mixed leaf litter for converting into vermicompost by using an epigeic earthworm *Eudrilus eugeniae*.

**Jayanthi, B.** Efficacy of conversion of Korai wastes (*Cyperus rotundus*) into vermicompost utilizing a temperate Earthworm, *Eisenia foetida*.

**2007-2008**

**Malarvizhi, M. 2008.** Bioconversion of coir wastes (*Cocos nucifera*) predigested with *Pseudomonas fluorescens* and *Trichoderma viride* by using epigeic earthworms (*Eudrilus eugeniae*, *Eisenia foetida* and *Perionyx excavatus*).

**Rajeshwari, C. 2008.** Vermicomposting of coir wastes (*Cocos nucifera*) predigested with *Pleurotus sp.* by using epigeic earthworms (*Eudrilus eugeniae*, *Eisenia foetida* and *Perionyx excavatus*).

**Sudha, P. 2008.** *In Situ* Bioconversion of Poultry waste into Vermicompost by an epigeic earthworm *Eudrilus eugeniae*.

**2008 - 2009**

**Kavitha, J.** Quantitative and qualitative bioconversion of sugarcane trash (*Saccharum officinarum* - predigested with *Trichoderma viride*) into vermicompost by using selected epigeic and anecic earthworms

**Poongodi, A.** Conversion of sugarcane trash (*Saccharum officinarum* predigested with *Aspergillus niger*) into vermicompost by using conventional composting earthworms.

**Viji, J.** Magnitude of Bio-conversion of sugarcane trash (*Saccharum officinarum* - predigested with *Pseudomonas fluorescens*) into vermicompost by using *Eudrilus eugeniae*, *Perionyx excavatus* and *Lampito mauritii*.

**Dhanasekaran, P.** *Ex situ* conversion of sugarcane trash (*Saccharum officinarum*) predigested with *Pleurotus sp.* into vermicompost by using conventional earthworms (*Eudrilus eugeniae*, *Perionyx excavatus*, and *Lampito mauritii*).

**2011-2012**

**Ramya, R.** Utilization of selected nucleotide sequence of earthworms (Family: Megascolecidae) for Evolutionary Distance Analysis.

**Babu Samy Kamalakaran, D.** Phylogenetic analysis of COI, 16s rRNA and 18s rRNA genes of earthworms (Family: Glossoscolecidae) retrieved from NCBI's GenBank.

**2012-2013**

**Shankari, T.** Multiple sequence alignment and molecular distance analyses of COI gene sequences of earthworms (Family: Lumbricidae).

**Rajendran, C.** Utilization of Clustal W and Molecular Divergence analyses of COI and 16S RNA gene sequences of earthworms (Family: Moniligastridae).

**2013-2014**

**Abdul Hamid Wani.** Production of vermifertilizer from mixed leaves litter (pre-digested with fungal inoculants) by using selected epigeic and anecic earthworms.

**Sumathi, P.** Effect different animal manure on Vermicomposting of mixed leaves litter by utilizing an exotic earthworm, *Eudrilus eugeniae*.

**Chinnan, N.** Vermiconversion of Paddy (*Oryza sativa*) Straw pre-digested with *Rhizopus oryzae* by utilizing *Eudrilus eugeniae*, *Perionyx excavatus* and *Lampito mauritii*.

**Gayathri Devi, R.** Production of vermifertilizer from Paddy (*Oryza sativa*) Straw pre-digested with fungal consortium by utilizing selected epigeic and anecic earthworms.

**Manivel, C.** Efficacy of bacterial consortium for the pre – digestion of leaves litter for the production of vermicompost by utilizing earthworms.

**2014-2015**

**Muthu Mari Chamy, V.** Efficacy of microbial consortium for the pre-digestion of Sugarcane Trash for the production of vermicompost by using selected epigeic and anecic earthworms

**Jayaseelan, K.** Bioconversion of Paddy (*Oryza sativa*) straw pre-digested with microbial consortium by using *Eudrilus eugeniae*, *Perionyx excavatus* and *Lampito mauritii*.

**2016-2017**

**Periasamy, M.** Enhancement of Teak leaf litter decomposition by Microbial Consortium prior to vermicomposting.

**2017-2018**

**Sathiyapavai, T.** Diversity of Avifauna during different developmental stages of paddy crop in Tiruchirappalli district, Tamil Nadu.

#### **RESEARCH PROJECTS GUIDED AT DOCTORAL (Ph.D.,) LEVEL STUDENTS**

1. **Sakthivel, P.** Determination of Effective Poison bait carrier for Rodent pests under Laboratory and Field conditions. – **Degree awarded on November 2011.**
2. **Murali, M.** Diversity of vermifauna and their ecology in Tropical Dry Evergreen Forest, *Kolli* hill, a part of Eastern Ghats, Tamil Nadu, India. – Thesis submitted to Bharathidasan University, Tiruchy - **Degree Awarded December 2012.**
3. **Sathis Kumar, K.** Population ecology and DNA barcoding (COI and 16s rRNA genes) of earthworms in Lateritic semi evergreen forest of *Kolli* hill, Eastern ghats, Tamil nadu, India – **Degree Awarded on September 2013.**
4. **Selvamuthukumar, D.** Spatial and Temporal Distribution of Earthworms in Southern thorn forest of *Kolli* hill, a part of Eastern Ghats, Tamil Nadu, India. – **Degree Awarded on February 2014.**
5. **Viji, J.** Efficacy of consortia of microbial inoculants for the pre-digestion of agro-wastes for Vermicomposting technology – **Degree Awarded on March 2016.**
6. **Siva, T.** POPULATION, NEST AND ROOST SITE CHARACTERISTICS AND PREY COMPOSITION OF INDIAN EAGLE OWL (*Bubo bengalensis* FRANKLIN, 1831) IN TIRUCHIRAPPALLI DISTRICT, TAMIL NADU, INDIA. **Degree Awarded May 2021.**
7. **Muthulakshmi, G.** EFFECTS OF *HELIANTHUS ANNUUS* AND *LEUCAENA LEUCOCEPHALA* LEAVES' POWDER AS FEED ADDITIVE ON

HEMATOLOGICAL AND BIOCHEMICAL PROFILES AGAINST *LABEO ROHITA* (HAMILTON, 1822) FINGERLINGS INFECTED WITH *AEROMONAS HYDROPHILA*. **Degree Awarded December 2021.**

8. **Muthusamy, A.** Home Range and Habitat Use of Indian Eagle owl (*Bubo bengalensis*, FRANKLIN, 1831) – A Potential predator of Rodent and Insect pests. **Ongoing**

### **RESEARCH ARTICLES PUBLISHED ON MANAGEMENT OF RODENT PESTS IN JOURNALS**

(NAAS Score of 2016)

1. **Neelananarayanan, P.** and Kanakasabai, R. 1992. Laboratory evaluation of Zinc phosphide and its impact on the Biochemistry of the soft furred field rat, *Millardia meltada* (Gray). **J. Ecotoxicol. Environ. Monit. 2(4): 273-277. Impact Factor: 1.633.**
2. **Neelananarayanan, P.,** Kanakasabai, R. and Sivaprakasam, C. 1993. Impact of Zinc phosphide on the Haematology of the soft-furred field rat, *Millardia meltada* (Gray). **Comp. Physiol. Ecol. 18(4):144-148. Impact Factor: 1.884.**
3. **Baskaran, J.,** Kanakasabai, R. and **Neelananarayanan, P.** 1993. Laboratory evaluation of bromodiolone (0.005%) against the Indian soft furred field rat, *Millardia meltada* (Gray). **Pestology 17(11):29-35. Impact Factor: 0.08.**
4. **Baskaran, J.,** Kanakasabai, R. and **Neelananarayanan, P.** 1995. Evaluation of two rodenticides in the Paddy fields during *Samba* and *Thaladi* seasons. **Indian J. Exp. Biol. 33:113-121. Impact Factor: 1.165.**
5. **Neelananarayanan, P.,** Nagarajan, R. and Kanakasabai, R. 1995. Evaluation of Zinc phosphide with prebaiting techniques in paddy fields. **Pestology 19(1):22-24. Impact Factor: 0.08.**
6. **Neelananarayanan, P.,** and Kanakasabai, R. 1995. Effect of Zinc phosphide on Intestine, Liver, Spleen and Kidney of *Millardia meltada* (Gray). **J. Ecobiol. 7(2):85-90.**
7. **Neelananarayanan, P.,** Nagarajan, R. and Kanakasabai, R. 1995. Intensity of Groundnut pod loss due to Rodents. **J. Ecotoxicol. Environ. Monit. 5(1):35-38. Impact Factor: 1.633.**
8. **Neelananarayanan, P.,** Nagarajan, R. and Kanakasabai, R. 1995. The common Barn Owl, *Tyto alba*: A potential predator of rodent pests. **Pestology 19(9):34-37. Impact Factor: 0.08.**
9. **Neelananarayanan, P.,** Nagarajan, R. and Kanakasabai, R. 1995. Method for population estimation of *Bandicota bengalensis* and *Mus booduga*. **J. Ecotoxicol. Environ. Monit. 5(4): 269-270. Impact Factor: 1.633.**
10. **Neelananarayanan, P.,** Nagarajan, R. and Kanakasabai, R. 1996. Burrow morphology of field rodents. **J. Bombay nat. Hist. Soc. 93(2): 238-241. Impact Factor: 0.26.**
11. **Kanakasabai, R., Neelananarayanan, P.** and Nagarajan R. 1996. Sexual dimorphism in adult Barn Owl, *Tyto alba stertens*. **Pavo 34 (1&2): 61 - 63.**

12. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1997. Magnitude of rodent depredation in Soybeans. **J. Environ. Biol.** **18 (2): 111-113. Impact Factor: 0.56.**
13. Vanitha, V., Neelananarayanan, P. and Kanakasabai, R. 1997. Laboratory evaluation of Germinated cereal as a bait base for the control of Indian mole-rat, *Bandicota bengalensis* (Gray). **Pestology** **21(6): 38-42. Impact Factor: 0.08.**
14. Neelananarayanan, P. and Kanakasabai, R. 2000. Rodent Pest Management - A Traditional Approach. **Pestology** **24 (2): 12 – 19. Impact Factor: 0.08.**
15. Neelananarayanan, P. and Kanakasabai, R. 2002. The Common Barn owl – An Eco-friendly Bio-control agent. **In: Glimpses of Rodent Research in India** (Eds. B.D.Rana, R.S.Tripathi, Mohd. Idris and Vipin Chaudhary) Central Arid Zone Research Institute, Jodhpur, India, pp:48-51.
16. Kamarajan, P., Neelananarayanan, P. and Kanakasabai, R. 2004. Rodent management in three modern rice mill godowns. **Pestology** **28(8): 34-37. Impact Factor: 0.08.**
17. Neelananarayanan, P. 2007. A technique for estimation of Barn owl (*Tyto alba stertens* Hartert, 1929) prey biomass with special reference to mandible length – body weight ratio small mammals, **ZOOS' PRINT JOURNAL** **22 (1):2519-2521. Impact Factor: 0.40.**
18. Neelananarayanan, P. 2007. Diet of Barn owl (*Tyto alba stertens* Hartert 1929) in a portion of Cauvery delta, Tamil Nadu, India, **ZOOS' PRINT JOURNAL** **22 (8): 2777-2781. Impact Factor: 0.40.**
19. Neelananarayanan, P. 2007. A field evaluation of predatory pressure of Barn owl (*Tyto alba stertens* Hartert, 1929) on rodent pests of agricultural importance, **Pestology** **31 (8): 44-59. Impact Factor: 0.08.**
20. Neelananarayanan, P. 2008. Trap barrier system- A novel method for rodent pest management in irrigated rice fields. **Pestology** **32 (3): 28-31. Impact Factor: 0.08.**
21. Sasikala, G., Neelananarayanan, P. and Sivaprakasam, C. 2008. Efficacy of three types of rodent traps in residential premises in Valayapatti village, Tiruchirappalli district, TamilNadu. **Pestology** **32(6): 45-48. Impact Factor: 0.08.**
22. Neelananarayanan, P. 2008. Magnitude of pre-harvest losses due to rodents in paddy, pulses, sugarcane and cotton crops in a portion of Cauvery delta, India. **Asian J. Animal Sci.**, **3(1):1-7. Impact Factor: 1.00.**
23. Neelananarayanan, P. 2008. Propensity of Rodent Depredation in selected crops in Cauvery Delta. **J. Ecobiol.** **23(3) 201-211. Impact Factor: 1.08.**
24. Sakthivel, P. and Neelananarayanan, P. 2008. Burrow structure of Indian Bush Rat *Golunda ellioti* and Brown Spiny Mouse *Mus platythrix* in Tiruchirappalli district, Tamil Nadu. **J. Bombay Nat. Hist. Soc.**, **105 (3):329-332. Impact Factor: 0.26.**
25. Neelananarayanan, P. 2008-2009. Population dynamics of Barn owl (*Tyto alba stertens* Hartert 1929) in a portion of Cauvery delta, India. **Asian J. Animal Sci. (Dec., 2008-to May, 2009)**, **3(2):156-162. Impact Factor: 1.00.**



26. Palaniyandi Sakthivel and **Periyasamy Neelanmarayanan**, 2011. Laboratory evaluation of germinated and non-germinated bait base for the management of the house rat, *Rattus rattus*. **African Zoology**, 46(2): 406-412. **Impact Factor: 0.739.**
27. Sakthivel, P., **Neelanmarayanan, P.** and Mohan Rao, A.M.K. 2011. Laboratory evaluation of germinated and non germinated grains as rodenticide bait base for control of three rodent pest species in Cauvery delta, Tamil Nadu, India. **Pestology** 35(8): 36-44. **Impact Factor: 0.08.**
28. Sakthivel, P., and **Neelanmarayanan, P.** 2014. Germinated cereals as bait base for Zinc phosphide and bromodiolone against rodent pests in paddy srop fields. Indian Journal of Plant Protection. 42(2): 141-148. **Impact Factor: 1.028.**
29. Sakthivel, P., and **Neelanmarayanan, P.** 2014. Efficacy of germinated cereals as bait carrier for Zinc phosphide and bromodiolone against field and commensal rodent pests: A laboratory evaluation. Advances in Zoology. 1-9. **Impact Factor: 0.19.**
30. Sakthivel, P., and **Neelanmarayanan, P.** 2015. Germinated rice paddy as a bait for Zinc phosphide and bromodiolone against rodent pests of selected crops. Green Farming. 6(1): 157-160.
31. Siva, T., **Neelanmarayanan, P.** and Vasudeva Rao, V. 2016-2017. Predatory potential of Indian Eagle owl, *Bubo bengalensis*. **Rodent Newsletter**. Vol. 40 & 41. Pp: 5-7. ISSN no. 0972 – 2939.
32. Siva, T. and **Neelanmarayanan, P.** 2017. Avifauna checklist of Karaivetti Bird Sanctuary in Ariyalur District, Tamil Nadu. **Sarovar Saurabh SACON ENVIS Newsletter**. Vol. 13 (2): 1-5. ISSN no. 0972-3153.
33. Siva, T. and **Neelanmarayanan, P.** 2017. Checklist of Birds of Koothapar Big Tank in Tiruchirappalli District, Tamil Nadu. **Sarovar Saurabh SACON ENVIS Newsletter**. Vol. 13 (3): 1-6. ISSN no. 0972-3153.
34. Siva, T. and **Neelanmarayanan, P.** 2017. First record of migratory Grey-necked Bunting *Emberiza buchanani* Blyth, 1844 (Aves: Passeriformes: Emberizidae) as a winter visitor in Tiruchirappalli District, Tamil Nadu, India. **Journal of Threatened Taxa** 9(12): 11095–11096. ISSN no. 0974-7907.
35. Siva, T. and **Neelanmarayanan, P.** 2018. Prey Composition of Mottled Wood owl *Strix ocellata* Lesson, 1839 in Tiruchirappalli District, Tamil Nadu, India. **Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences**. Vol. 4(5): 231 -239. ISSN no. 2454 – 6348.
36. Siva, T. and **Neelanmarayanan, P.** 2019. Checklist of Butterflies of Nehru Memorial College and Puthanampatti village, Tiruchirappalli District, Tamil Nadu. *Zoo's Print Journal*. 34(1): 21-29. ISSN no. 0971 – 6378.
37. Siva, T. and **Neelanmarayanan, P.** 2019. Grey-headed Lapwing: Sighting of *Vanellus cinereus* in Koothappar Big tank in Tiruchirappalli District, Tamil Nadu. *Bird-o-soar* 25. *Zoo's Print* 34(2): 15 – 17. ISSN no. 0971 – 6378.
38. Siva, T., **Neelanmarayanan, P.** and Vasudeva Rao, V 2019. Food Composition of Indian Eagle Owl *Bubo bengalensis* Franklin (Aves:

- Strigiformes: Strigidae) from Tiruchirappalli District, Tamil Nadu, India. *Journal of Threatened Taxa*. 11(5): 13545 – 13551. ISSN no. 0974-7907.
39. Siva, T. and **Neelanarayanan, P.** 2019. Diversity of Avifauna during different Developmental stages of Paddy crop in Tiruchirappalli District, Tamil Nadu, India. ***Pestology***. 43(10): 26 – 37. ISSN no. 0970 – 3012.
40. Siva, T. and **Neelanarayanan, P.** 2019. Checklist of Birds around Puthanampatti Lake in Tiruchirappalli District, Tamil Nadu, India. ***Sarovar Saurabh*** SACON ENVIS *Newsletter*. Vol. 15 (2): 1-3. ISSN no. 0972-3153.
41. Siva, T. and **Neelanarayanan, P.** 2020. Impact of vehicular traffic on birds in Tiruchirappalli District, Tamil Nadu, India. ***Journal of Threatened Taxa***. 12(10): 16352 – 16356. ISSN no. 0974-7907.
42. Lakshmanan, G., Siva, T., Muthusamy, A. and **Neelanarayanan, P.** 2020. Avifaunal diversity observed in the contaminated wetland of Thuraiyur Lake (Chinna Eri) in Tiruchirappalli District, Tamil Nadu. ***Sarovar Saurabh*** SACON ENVIS *Newsletter*. Vol. 16 (3): 1-3. ISSN no. 0972-3153.
43. Siva, T., Muthusamy, A., Lakshmanan, G. and **Neelanarayanan, P.** 2021. Smooth-coated Otter spotted in Kiliyur Lake, Tamil Nadu, India. ***Zoo's Print Journal***. 36 (2): 26 – 29. ISSN no. 0973 – 2543.
44. Muthusamy, A., Siva, T., Lakshmanan, G. and **Neelanarayanan, P.** 2021. Checklist of birds from select wetlands from Perambalur District, Tamil Nadu. ***Sarovar Saurabh*** SACON ENVIS *Newsletter*. Vol. 17 (1): 6-9. ISSN no. 0972-3153.
45. Siva, T., Muthusamy, A and **Neelanarayanan, P.** 2021. Mugger Crocodile spotted in Kiliyur Lake, Tamil Nadu, India. ***Zoo's Print Journal***. 36(4): 1-2. ISSN no. 0971 – 6378.
46. Siva, T., Muthusamy, A and **Neelanarayanan, P.** 2021. Occurrence of Beak Deformity in Indian Eagle owl (*Bubo bengalensis*) in Tamil Nadu, India. ***Zoo's Print Journal***. 36(4): 17-18. ISSN no. 0971 – 6378.
47. Siva, T. and **Neelanarayanan, P.** 2021. Diversity of Avifauna observed and recorded in Thinnanur Lake in Tiruchirappalli District, Tamil Nadu, India. ***Asian Journal of Conservation Biology***. Vol. 10 No. 2, pp. 308 – 316 ISSN 2278-7666.
48. Siva, T., Muthusamy, A and **Neelanarayanan, P.** 2021. Birds of Melakulam lake in Tiruchirappalli District, Tamil Nadu. ***Sarovar Saurabh*** SACON ENVIS *Newsletter*. Vol. 17 (3): 5-8. ISSN no. 0972-3153.
49. Siva, T. and **Neelanarayanan, P.** 2022. Avifauna checklist of Nehru Memorial College Campus of Tiruchirappalli District, Tamil Nadu. ***Zoo's Print Journal***. 37(6): 17-26. ISSN no. 0971 – 6378.
50. Muthusamy, A, Siva, T. and Neelanarayanan, P. 2024. Ranging behavior of the Indian Eagle-Owl *Bubo bengalensis* in Tiruchirappalli District, Tamil Nadu, India. *Indian BIRDS*, 19(5): 148-154.

**RESEARCH ARTICLES PUBLISHED ON VERMIBIOTECHNOLOGY IN JOURNALS**

1. Jayanthi, B. and **Neelananarayanan, P.** 2009-2010. Bio-conversion of korai waste (*Cyperus rotundus*) into vermicompost utilizing a temperature earthworm, *Eisenia foetida*. **An Asian journal of Soil Science**, (December 2009 to May-2010), vol. 4 No.2: 194-197. **Impact Factor: 0.48.**
2. Jayanthi, B. Ambiga, G. and **Neelananarayanan, P.** 2010. Utilization of mixed leaves Litter for converting into Vermicompost by using an Epigeic earthworm *Eudrilus eugeniae*. **Nature Environment and Pollution Technology**. Vol.9. No.4: 763 – 766. **Impact Factor: 1.01.**
3. Murali,M. and **Neelananarayanan, P.** 2011. *Ex situ* bioconversion of Coir waste (*Cocos nucifera*) predigested with *Pleurotus sp.* by using an epigeic earthworm, *Eudrilus eugeniae*. **Asian J. Environ. Sci.**, 6(1): 12-16. **Impact Factor: 2.208.**
4. Murali,M. and **Neelananarayanan, P.** 2011. Determination of mesh size for sieving of vermicompost without cocoons and incubation medium for cocoons produced by three species of Earthworms. **Ele. J. Envi. Sci.** 4. 25-30. **Impact Factor: 2.34.**
5. Murali, M., Bharathiraja, A. and **Neelananarayanan, P.** 2011. Conversion of Coir waste (*Cocos nucifera*) into Vermicompost by utilizing *Eudrilus eugeniae* and its Nutritive values. **J. Fun. Appl. Lif. Sci.**, 1(3): 80-83.
6. Murali, M and **Neelananarayanan. P.** 2011. Vermiwash of three conventional composting species of earthworms and its chemical composition. **Ele. J. Envi. Sci.** 4. 105-108. **Impact Factor: 2.34.**
7. Sathis Kumar, K. and **Neelananarayanan, P.** 2012. Effects of inoculation of *Azospirillum sp.* in the preparation of predigested food for vermicompost production. **Ele. J. Envi. Sci.** 5: 7-11. **Impact Factor: 2.34.**
8. Sathis Kumar, K. and **Neelananarayanan, P.** 2012. Analysis of phylogeny and evolutionary divergence of cytochrome *b* sequence of *Pontoscolex corethrurus* (Muller, 1857) from *Kolli* hills (A part of Eastern Ghats, Tamil Nadu, India). **J. Cell and Tissue Research.** 12(1): 3003-3008. **Impact Factor: 2.94.**
9. Sundararasu, K. and **Neelananarayanan, P.** 2012. Effect of vermicompost and inorganic fertilizers on the growth and yield of Tomato *Lycopersium esculentum* L. **International J. Current Research.** 4(7): 49-51. **Impact Factor: 0.876.**
10. Selvamuthukumar, D. and **Neelananarayanan, P.** 2012. Bio-conversion of leaves' litter into vermicompost by indigenous earthworm, *Perionyx excavatus*. **Ele. J. Envi. Sci.** 5: 55-60. **Impact Factor: 2.34.**
11. Selvamuthukumar, D. and **Neelananarayanan, P.** 2012. Bio-transformation of poultry waste into vermicompost by using an Epigeic earthworm, *Eudrilus eugeniae*. **Ele. J. Envi. Sci.** 5: 61-65. **Impact Factor: 2.34.**
12. Sathiskumar, K., Sureshkumar, U. and **Neelananarayanan, P.** 2013. Mitochondrial 16s RNA sequence for earthworm identification from semi evergreen forest type of Puliyancholai reserved forest in *Kolli Hill*, Tamil Nadu, South India. **J. Microbiol.Biotech. Res.** 3(1): 40-45. **Impact Factor: 1.685.**

13. Viji, J. and Neelananarayanan, P. 2013. Production of vermicompost by utilizing Paddy (*Oryza sativa*) Straw (Pre-digested with *Trichoderma viride*) and *Eudrilus eugeniae*, *Perionyx excavatus* and *Lampito mauritii*. **Int. J. Pharm. Bio Sci.** 4(4): 986 – 995. **Impact Factor: 5.121.**
14. Viji, J. and Neelananarayanan, P. 2014. Earthworm mediated conversion of coir waste (*Cocos nucifera*) pre-digested with *Pleurotus sp.* Under monoculture and polyculture conditions. **Int. J. Recent Scientific Research.** 5(1): 269-276. **Impact Factor: 5.971.**
15. Viji, J. and Neelananarayanan, P. 2015. Efficacy of lignocellulolytic fungi on the biodegradation of paddy straw. **Int. J. Environ. Res.** 9(1): 225-232. **Impact Factor: 1.08.**
16. Viji, J. and Neelananarayanan, P. 2015. Effect of different animal manure on Vermicomposting of mixed leaves litter by utilizing an exotic earthworm, *Eudrilus eugeniae*. **Int. J. Adv. Res.** 3(7): 1360-1376. **Impact Factor: 5.33.**
17. Viji, J. and Neelananarayanan, P. 2016. Vermiremediation of Sugarcane (*Saccharum officinarum*) trash – pre-digested with *Pseudomonas fluorescens*) by utilizing *Eudrilus eugeniae*, *Perionyx excavatus* and *Lampito mauritii* under monoculture condition. **International Journal of Current Science Research.**2(5): 603-620. **Impact Factor: 5.33.**
18. Viji, J. and Neelananarayanan, P. 2016. Vermicomposting of Sunflower (*Helianthus annuus* L.) cob (pre-digested with *Aspergillus niger*) without cow dung by utilizing conventional composting earthworms. **International Journal of Current Science Research.** 2(5): 650-667. **Impact Factor: 5.33.**
19. Muthulakshmi, G and Neelananarayanan, P. 2017. Activities of Methanol Extracts of the Leaves of *Morinda citrifolia* against freshwater fish Bacterial pathogens. **International Journal of Pharma and Bio Sciences.** 9(1): 209 – 213.
20. Viji, J. and Neelananarayanan, P. 2018. Vermiconversion of mixed leaves litter (pre-digested with fungal consortium) by using *Eudrilus Eugeniae*, *Perionyx Excavatus* and *Lampito Mauritii*. **International Journal of Pharma and Bio Sciences.** 9(4): 221 – 227. ISSN 0975-6299.
21. Muthulakshmi, G and Neelananarayanan, P. 2019. Screening of Phtoconstituents and Antibacterial efficacy of Leaves extracts of Lantana camara. **The pharma Innovation journal.** 8(6):718-722.
22. Sathish Kumar, K. and Neelananarayanan, P. 2019. DNA barcoding of earthworms from lateritic semi evergreen forest of Kolli hills, a part of Eastern Ghats, Tamil Nadu, India. **Research Journal of Biotechnology.** Vol 15(11): Pp. 16-21.
23. Muthulakshmi, G and Neelananarayanan, P. 2020. Antibacterial and Antifungal Activity of *Coccinia grandis* leaves Extracts against Fish Pathogens. **Asian Journal of Biological and Life Sciences.** Vol. 9 (3): Pp. 424-430.
24. Muthulakshmi, G and Neelananarayanan, P. 2021. Evaluation of Antimicrobial Activities of *Terminalia catappa* leaves Extracts against Bacterial and Fungal Pathogens. **Indian Journal of Natural Sciences.** Vol.11(64): pp. 28966-28974.

**SHORT COMMUNICATIONS PUBLISHED ON MANAGEMENT OF  
RODENT/INSECT PESTS IN NEWSLETTERS**

1. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1993. Scope for the utilization of man-made nest boxes by Barn owl, *Tyto alba*. **Zoos' Print. 8 (11):3. Impact Factor: 0.40.**
2. Neelanarayanan, P., Kanakasabai, R. and Nagarajan, R. 1993. Mechanical control of rodents in Soybean fields. **Rodent Newsletter. 17(3-4):7.**
3. Neelanarayanan, P., Kanakasabai, R. and Nagarajan, R. 1993. Rodent damage in Paddy in Tamil Nadu. **Rodent Newsletter. 17(1-2):6.**
4. Neelanarayanan, P., Kanakasabai, R. and Nagarajan, R. 1993. An assessment of rodent damage to Pulse crop in Cauvery delta. **Rodent Newsletter. 17(3-4): 5-6.**
5. Neelanarayanan, P., Kanakasabai, R. and Nagarajan, R. 1993. Hoarding of Soybean pods by *Bandicota bengalensis*. **Rodent Newsletter. 17(1-2):8.**
6. Nagarajan, R., Neelanarayanan, P. and Kanakasabai, R. 1993. Tips for the identification of common Barn Owl nests. **Newsletter for Birdwatchers. 33(5): 93.**
7. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Traditional methods in rodent control. **Indian Express**, 20th July 1994.
8. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Bio-control of rodents by Barn Owl. **Invention Intelligence. 29(10):488-489.**
9. Kanakasabai, R., Subiah, K.S., Neelanarayanan, P. and Nagarajan, R. 1994. Nest box and "T" Shape perching pole for Common Barn Owl. **Newsletter for Birdwatchers. 34(4):88-89.**
10. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Possibility of secondary poisoning hazard to house crow, *Corvus splendens* and jungle crow, *Corvus macrorhynchos* **Zoos' Print. 9(5):16. Impact Factor: 0.40.**
11. Nagarajan, R., Neelanarayanan, P. and Kanakasabai, R. 1994. Damage caused by cyclone of December 1993 to Barn Owl (*Tyto alba*) nests in Tranquebar taluk, Tamil Nadu. **Cheetal 33(3-4): 42-44.**
12. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Burrow morphology of field rodents of Cauvery Delta. **Rodent Newsletter 18 (3):3-4.**
13. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Vertebrate pests as prey and their composition in the Diet of Common Barn Owl, *Tyto alba*. **Rodent Newsletter. 18(3): 5-6.**
14. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Pitfall trap for the control of field rodents in Cotton fields. **Rodent Newsletter 18(3):7.**
15. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Rodent depredation in Sesamum. **Rodent Newsletter 18(2):9-10.**
16. Neelanarayanan, P., Nagarajan, R. and Kanakasabai, R. 1994. Magnitude of rodent depredation in Cotton. **Rodent Newsletter 18(4):3.**
17. Nagarajan, R., Neelanarayanan, P. and Kanakasabai, R. 1994. Rodent infestation in Oil Palm in Tranquebar Taluk, Tamil Nadu. **Rodent Newsletter 18(4):4.**

18. Nagarajan, R., Neelananarayanan, P. and Kanakasabai, R. 1994. Rodent Damage in Pineapple Gardens of Coleroon River Bank, Tamil Nadu. **Rodent Newsletter 18(4):4-5.**
19. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R., 1994. House rat menace in Hostel. **Rodent Newsletter 18(4): 14.**
20. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Rats, Mice and other vermin. **ILEIA Newsletter 11(1):9.**
21. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Successful utilization of Man made nest boxes by Barn Owl, *Tyto alba*. **Zoos' Print 10(5):16-17. Impact Factor: 0.40.**
22. Nagarajan, R., Neelananarayanan, P., and Kanakasabai, R. 1995. Descriptions of Nesting sites of Barn Owl (*Tyto alba*) in Man made structures. **Zoos' Print 10(5):15. Impact Factor: 0.40.**
23. Nagarajan, R., Neelananarayanan, P. and Kanakasabai, R. 1995. Egg Predation in Barn Owl (*Tyto alba*) nests. **Zoos' Print 10(5):15. Impact Factor: 0.40.**
24. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Thanjavur bow trap an ecofriendly tool for rodent control. **Indian Express**, 24th May 1995: 5p.
25. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Tanjore bow trap: An Eco-friendly tool for rodent management. **Rodent Newsletter 19(2):8-11.**
26. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. An assessment of tiller damage by rodents in irrigated rice fields. **J. Bombay nat. Hist. Soc. 92(3):415-416. Impact Factor: 0.26.**
27. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Traditional rodent control methods in Cauvery Delta. **Rodent Newsletter 19(3):9-11.**
28. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1996. Sexual Dimorphism in Barn Owl (*Tyto alba*). **Newsletter for Birdwatchers 36(3):55.**
29. Vanitha, V., Neelananarayanan, P., and Kanakasabai, R. 1996. Impact of Germination on the Food consumption and preferences of Indian mole rat, *Bandicota bengalensis* (Gray). **Rodent Newsletter 20(1):7.**
30. Neelananarayanan, P. and Kanakasabai, R. 2003. Method for Population Estimation of Common Barn Owl. **Newsletter for Birdwatchers 43(5): 73-74.**
31. Neelananarayanan, P. and Kanakasabai, R. 2003. Rodent Pest Management Using Barn Owls in Cauvery Delta, India. **Rodent Research (formerly War Against Rats) CSIRO Australia. 16: 3-5.**
32. Neelananarayanan, P. 2003. Report on the Rodent Ecology and Management Course held at International Rice Research Institute (IRRI), Philippines. **Rat-a-tattle- RILSCINSA Newsletter 3(1): 32.**
33. Ashoka Chakkaravarthy, Q., Neelananarayanan, P., and Raja, V.S. 2004. Avifauna of Nehru Memorial College Campus and its adjoining areas, Puthanampatti, Tamilnadu. **Newsletter for Birdwatchers 44(2): 20-21.**
34. Neelananarayanan, P. 2003. Rodent Ecology and Management course – A Report. **Rodent Newsletter 27(1-2): 6.**

35. Neelananarayanan, P. and Kanakasabai, R. 2003. A Method for studying food composition of barn owl (*Tyto alba stertens*) by pellet analysis. **Rodent Newsletter** 27(3-4):10-11.
36. Neelananarayanan, P. 2003. Community Trap Barrier system for integrated management of rodent pests in low land and irrigated rice crops in South-East Asia. **Rodent Newsletter** 27(3-4):13-14.
37. Neelananarayanan, P. and Kanakasabai, R. 2004. A method for quantifying barn owl (*Tyto alba stertens*) prey frequency and biomass. **Rodent Newsletter** 28(1-2): 8-10.
38. Neelananarayanan, P. 2004. Tips for the identification of field rodent burrow entrances. **Rodent Research (formerly War Against Rats) CSIRO Australia**.18: 5-6.
39. Neelananarayanan, P. and Kanakasabai, R. 2005. Management of rodent pests in rice fields using artificial perches. **Ann. Pl. Protec. Sci.**, 13(2): 483-485. Impact Factor: 0.45.
40. Neelananarayanan, P. and Kanakasabai, R. 2005. Rate of food intake and pellet regurgitation by captive barn owls (*Tyto alba stertens*) in Captivity. **Ann. Pl. Protec. Sci.**, 13(2): 487-489. Impact Factor: 0.45.
41. Neelananarayanan, P. 2006. Utilization of artificial nest boxes by Common Barn Owl (*Tyto alba*) in Cauvery delta, Tamil Nadu. **Newsletter for Birdwatchers** 46(3): 37-38.
42. Sakthivel, P. and Neelananarayanan, P. 2007. Extent of rodent depredation in Sunflower. **Ann. Pl. Protec. Sci.** 15 (1): 273-274. Impact Factor: 0.45.
43. Sakthivel, P., Neelananarayanan, P. and Sivaprakasam, C. 2008. Utilization of aggregation pheromone for monitoring Rhinoceros Beetle (*Oryctes rhinoceros*) in Coconut and oil palm groves. **Insect Environment** 14 (2): 78-80.
44. Sakthivel, P., Neelananarayanan, P. and Sivaprakasam, C. 2008. Monitoring of red palm weevil (*Rhynchophorus ferrugineus*) in Coconut and Oil palm plantations utilizing pheromone traps. **Insect Environment** 14 (2): 86-89.
45. Sasikala, G. and Neelananarayanan, P. 2008. Perception of Rice farmers on Rodent Management in Tiruchirappalli district, Tami Nadu. **Ann. Pl. Protec. Sci.** 16 (2): 505 – 506. Impact Factor: 0.45.
46. Sakthivel, P., Neelananarayanan, P. and Sivaprakasam, C. 2008. Efficacy of sex pheromone lures of yellow stem borer (*Scirpophaga incertulas* Walker) in paddy fields. **Insect Environment** 14 (2): 80-81.
47. Sakthivel, P. and Neelananarayanan, P. 2009. Occurrence of Indian Bush Rat (*Golunda ellioti*) and Spiny Field Mouse (*Mus platythrix*) in Tiruchirappalli district, TN, India. (combined) BAT NET - CCINSA Newsletter and Rat-A-Tattle - **RISCINSA Newsletter** Conservation and Information Network of South Asia, 1 (1): Jan-July 2009:35-36.
48. Neelananarayanan, P. and Santhi, M. 2010. Additive Effect of *Vitex negundo* and *Calotropis gigantean* leaves Crude extract on the feeding of Castor Woolly bear, *Pericallia ricini* Fab. (Noctivdae: Lepidoptera). **Insect Environment** 16 (1): 36-38.

49. Neelananarayanan, P. and Indira, P. 2010. Effect of *Calotropis gigantean* leaves extract on the feeding activities of peat of Castor Woolly bear, *Pericallia ricini*. **Insect Environment** 16 (1): 39-40.

**Total Number of Popular and Scientific Articles published in TAMIL dailies, Monthly magazines (including Scientific) are = 12.**

#### **BOOK CHAPTERS PUBLISHED**

1. Nagarajan, R., Neelananarayanan, P. and Kanakasabai, R. 1999. Barn owl: Ecology and Conservation. **In: Indian Wildlife Resources Ecology and Development** (Ed. B.D. Sharma). Daya Publishing House, Delhi, India, pp:111-133.
2. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1999. The Common Barn Owl, *Tyto alba stertens* Hartert 1929: An Effective Bio-Control Agent of Rodent Pests. **In: Advances in Fish and Wildlife Ecology and Biology Vol.II.** (Ed. B.L. Kaul), Daya Publishing House, Delhi, India, pp:153- 163.
3. Sakthivel, P., and Neelananarayanan, P. 2009. Magnitude of food preference and consumption of Soft-furred field rat, *Millardia meldata* (Gray) under laboratory conditions. **In: Recent Trends in Animal Behaviour (Eds. Sridhara, S., Nagachaitanya, B., Chakravarthy, A.K., Prabhakara Shetty, T.K.)**. New India Publishing Agency, New Delhi. Pp: 179-189.
4. Sakthivel, P., Bharathiraja, A. and Neelananarayanan, P. 2009. Eco-friendly management of rodent pests using Tanjore bow-trap in irrigated rice fields of Tiruchirappalli district, Tamil Nadu. **In: Recent Trends in Animal Behaviour (Eds. Sridhara, S., Nagachaitanya, B., Chakravarthy, A.K., Prabhakara Shetty, T.K.)**. New India Publishing Agency, New Delhi. Pp: 261-268.

#### **CONFERENCE PROCEEDINGS**

1. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. Magnitude of Rodent Damage in Soybeans. **In: International Symposium on Recent Trends in Life Sciences**, 19-22 November 1993, Osmania University Hyderabad (Abstract only).
2. Nagarajan, R. Neelananarayanan, P., Kanakasabai, R. and Thiyagesan, K. Nesting Ecology of Barn owl (*Tyto alba*) in the Nagapattinam Quaid-e-Milleth District, Tamil Nadu. **In: International Symposium on Recent Trends in Life Sciences**, 19-22 November 1993, Osmania University, Hyderabad (Abstract only).
3. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Environment friendly methods for Rodent Pests Management. Second Congress on Traditional Sciences and Technologies of India, Anna University, Madras. (Abstract Only).



4. Neelananarayanan, P., Nagarajan, R., Kanakasabai, R. and Subiah, K.S. 1995. Utilization of nest boxes by common barn owl, *Tyto alba*. **Proceedings of the National Symposium on Recent Trends in Indian Wildlife Research, A.V.C. College, Mayiladuthurai, South India, pp 52-55.**
5. Kanakasabai, R., Neelananarayanan, P. and Nagarajan, R. 1995. Artificial perches use by common barn owl, *Tyto alba*. **Proc. of the National Symposium on Recent Trends in Indian Wildlife Research, A.V.C. College, Mayiladuthurai, South India, pp 56-60.**
6. Nagarajan, R., Neelananarayanan, P. and Kanakasabai, R. 1995. Growth changes in the Body weight, Bill length and Talon length of Indian Barn Owl, *Tyto alba stertens* Hartert, 1929, Nestlings. **Proceedings of the National Symposium on Recent Trends in Indian Wildlife Research, A.V.C. College, Mayiladuthurai, South India, pp 61-66.**
7. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1995. Mean burrow occupancy of field rodent pests. **Proceedings of the National Symposium on Recent Trends in Indian Wildlife Research, A.V.C. College, Mayiladuthurai, South India, pp 74-77.**
8. Neelananarayanan, P., Nagarajan, R. and Kanakasabai, R. 1998. Studying Diet of Barn owl (*Tyto alba stertens*) by Pellet analysis. **Proc. of the First National Symposium on Birds in Agricultural Ecosystem, A.N.G.R. Agricultural University, Hyderabad. pp 125 - 131.**
9. Nagarajan, R., Neelananarayanan, P. and Kanakasabai, R. 1998. Breeding biology of Barn owl (*Tyto alba stertens*) in Nagapattinam Quaid-e-Milleth District, Tamil Nadu. **Proceedings of the First National Symposium on Birds in Agricultural Ecosystem, A.N.G.R. Agricultural University, Hyderabad. pp 149 – 152.**
10. Kanakasabai, R., Neelananarayanan, P. and Nagarajan, R. 1998. Quantifying Barn owl (*Tyto alba stertens*) prey frequency and biomass. **Proceedings of the First National Symposium on Birds in Agricultural Ecosystem, A.N.G.R. Agricultural University, Hyderabad, pp 153 - 157.**
11. Rajalakshmi, L., Bharathiraja, A., Sakthivel, P. and Neelananarayanan, P. 2007. Utilization of aggregation pheremone for the management of monitoring of Rhinoceros beetle *Oryctes rhinoceros*) in coconut palm (*Cocos nucifera*) and oil palm (*Elaeis guineensis*) groves. **In: Proc. Of National Seminar on Emerging Scenario in Zoology. (Eds. Sivasamy, P., Ashok Kumar, C., Uma, K., Hussain, H.S.H. and Gokula, V.): 27-29.**
12. Padmavathi, S., Sakthivel, P., Bharathiraja, A. and Neelananarayanan, P. 2007. Magnitude of management of Red Palm Weevil (*Rhynchophorus ferrugineus*) in coconut palm (*Cocos nucifera*) and oil palm (*Elaeis guineensis*) plantations. **In: Proc. Of National Seminar on Emerging Scenario in Zoology. (Eds. Sivasamy, P., Ashok Kumar, C., Uma, K., Hussain, H.S.H. and Gokula, V.): 54-57.**

### **SPECIAL TRAINING PROGRAMME ATTENDED AT ABROAD**

- ❖ Attended an “International training course on Rodent Ecology and Management” held at International Rice Research Institute, Las Banos, Laguna (near Manila), Philippines between 19<sup>th</sup> May and 06<sup>th</sup> June 2003.

### **SPECIAL TRAINING PROGRAMMES ATTENDED AT HOME**

1. Attended the State Level Teacher Training Workshop on National Environmental Awareness Campaign (Sponsored by Centre for Environmental Education, Ahmedabad), at the Department of Zoology, A.V.C. College (Autonomous) Mayiladuthurai, Tamil Nadu Between 4 and 6 December 1989.
2. Attended the seminar on the Sustainable Development and Sustainable Utilization of Natural Resources at the Department of Zoology, Loyola College (Autonomous), Madras, between 5 and 6 February, 1993.
3. Attended the Workshop on Water Quality Assessment at the Department of Zoology, A.V.C. College (Autonomous), Mayiladuthurai, Tamil Nadu, between 24 and 26 March, 1993.
4. Participated and gave a lecture on bio-control of field rats by bran owl, *Tyto alba* in the rat control campaign organised by the Central Integrated Pest Management Centre, Tiruchirappalli, in the IPM village - Sengalipuram, Kodavasal Block, Nagai Quaid-e-Milleth district on 05.08.1993 and 06.08.1993.
5. Attended the workshop on "Workshop on Biostatistics" at the Post Graduate and Research Department of Zoology, A.V.C. College (Autonomous) Mayiladuthurai, Tamil Nadu, between 21 and 23 December 1993.
6. Attended the workshop on "Radiation Ecology" at the Dept. of Zoology, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu, between 29 and 30th March 1996.
7. Attended Field Techniques & Taxonomy Training Workshop for conservation of Rodents and Insectivores held at Kerala Agricultural University, Thrissur, Kerala between 22<sup>nd</sup> and 26<sup>th</sup> July 2002.
8. Participated in the Workshop on “Environmental Studies (UGC’s Compulsory Core Module Course) organized by Council for College Curriculum and Development, Bharathidasan University, Tiruchirappalli from 5<sup>th</sup> to 10<sup>th</sup> January 2004.
9. Participated in the One day Seminar for YRC programme officers of Arts and Science colleges on 14-02-2005 at Bharathidasan University, Tiruchirappalli.
10. Participated in the One day Seminar for YRC programme officers of Arts and Science colleges on 23-02-2007 at Bharathidasan University, Tiruchirappalli.
11. Participated in a Workshop on Electrophoretic and Immunological Techniques conducted by Department of Zoology, Holy Cross College, Tiruchirappalli between 16-08-2007 and 18-08-2007.
12. Attended Indo-US workshop on “Vermitechnology in Human welfare” held at Kongunadu Arts and Science College (Autonomous), Coimbatore between 4<sup>th</sup> and 7<sup>th</sup> June 2007.

13. Participated in a National level Workshop on "Scholarly Information Access" held on 23<sup>rd</sup> and 24<sup>th</sup> October 2009 at Bharathidasan University, Tiruchirappalli.
14. Attended "Indo-global Education Summit 2010" at Hyderabad organized by The Indus Foundation, India between 3<sup>rd</sup> December and 5<sup>th</sup> December 2010.
15. Attended the Faculty Development Programme on "Emerging Trends in Biotechnology" at the Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli, Tamil Nadu, between 19 and 25 October 2013.
16. Participated one Faculty Development Programme on "Impact of Research on Training in Higher Education" at Nehru Memorial College (Autonomous), Puthanampatti on 11<sup>th</sup> June 2014.
17. Participated Three days Science Academics Lecture Workshop on "Modern Trends in Biological Sciences" at Nehru Memorial College (Autonomous), Puthanampatti held from 9<sup>th</sup> to 10<sup>th</sup> October 2014.

#### **SYMPOSIA ATTENDED AT HOME**

1. Participated and presented a paper entitled "Impact of Zinc phosphide on the Histology and Haematology of the soft furred field rat, *Millardia meltda* (Gray)", in the FIRST NATIONAL SYMPOSIUM ON UNCONVENTIONAL PESTS: CONTROL vs CONSERVATION held at the University of Agricultural Sciences, Bangalore, between 14 and 16 October 1991.
2. Participated in the "Second Tamil Nadu Science Congress" at Tamil Nadu Veterinary and Animal Sciences University, Madras, between 6 and 8 November, 1993.
2. Participated and presented a paper in the seminar on "Recent Trends in Animal Science Research" at Bharathidasan University, Tiruchirappalli, on 21 and 22 October, 1994.
3. Participated and presented a paper in the First National Symposium on "Birds in Agricultural Ecosystem", held at the Andhra Pradesh Agricultural University, Hyderabad from 22-24 December, 1994.
4. Attended and presented a paper in the VIIIth Workshop on All India Coordinated Research Programme on Rodent Control at Gujarat Agricultural University, Junagadh, Gujarat between 29 and 31 December 1994.
5. Participated and presented papers in the National Symposium on "Recent Trends in Indian Wildlife Research," organised by the Research Department of Zoology and Wildlife Biology, between 22 and 24 February 1995.
6. Participated and presented a paper in the Second National congress on "Traditional Sciences and Technologies of India" organised by Anna University and PPST Foundation, Madras at Anna University, Madras between 26 and 31st December 1995.
7. Participated in the IXth Annual group meeting of ALL INDIA NETWORK PROJECT ON AGRICULTURAL ORNITHOLOGY held at Kerala Agricultural University, Thrissur between 27-09-2000 and 29-09-2000.

8. Participated and presented a paper in the 3<sup>rd</sup> National symposium on “AVIAN BIODIVERSITY – ISSUES AND CONSERVATION STRATEGIES” held at ANGR Agricultural University, Hyderabad, between February 07<sup>th</sup> and 08<sup>th</sup> 2002.
9. Participated and presented two papers in the National Symposium on "Recent Trends on The Study of Aquatic and Terrestrial Bio Resources," organized by the Department of Zoology Annamalai University, Annamalai Nagar, India between 27 and 28 February 2003.
10. Participated and presented a paper in the National Seminar-cum-Special Lectures on “Emerging Trends in Animal Biotechnology” held at Bharathidasan University from 27<sup>th</sup> to 28<sup>th</sup> 2006.
11. Participated and presented a paper in the National Seminar on “Emerging Scenario in Zoology” held on 27<sup>th</sup> September 2007 in the Department of Zoology, National College, Tiruchirappalli.
12. Acted as a Chairperson of a session in the National Seminar on “Emerging Scenario in Zoology” held on 27<sup>th</sup> September 2007 in the Department of Zoology, National College, Tiruchirappalli.
13. Participated and presented two papers in the “31<sup>st</sup> Annual Conference of the Ethological Society of India” organized by AINP on Rodent control, University of agricultural Sciences, Bangalore between 10 and 12 April 2007.

### **RESOURCE PERSON**

1. Acted as a Resource person “In-State Training on Rodent Pest Management for Tamil Nadu” at Farmers Training Centre, Sakkottai for Assistant Directors of Agriculture / Agriculture officers of Thanjavur and Nagapattinum Districts, organized by Department of Agriculture, Govt. of Tamil Nadu & National Institute of Plant Health Management, Dept. of Agri & Cooperation, Ministry of Agriculture, Government of India, Rajendranagar, Hyderabad between 24 and 26 June 2009.
2. Acted as a Resource person “In-State Training on Rodent Pest Management for Tamil Nadu” at Mannarkudi for Assistant Directors of Agriculture / Agriculture officers of Thiruvarur, Nagapattinam and Tiruchirappalli Districts, organized by Department of Agriculture, Govt. of Tamil Nadu & National Institute of Plant Health Management, Dept. of Agri & Cooperation, Ministry of Agriculture, Government of India, Rajendranagar, Hyderabad between 14 and 16 July 2009.

### **INVITED TALKS DELIVERED**

1. Delivered a lecture on “Prospects of Vermiculture (Waste 2 Wealth)” at the Department of Zoology Holy Cross College (Autonomous), Tiruchirappalli on 16-09-2009.

### **RESEARCH PROJECT COMPLETED (MINOR / MAJOR)**

1. Determination of Effective Poison bait carrier for the Management of Rodent Pests funded by **University Grants Commission** from 2005-2007. **Total grant: Rs. 91,000/-**

2. Diversity of Vermifauna and their population dynamics in *Kolli hills*, a part of Eastern Ghats, Tamil Nadu funded by **Ministry of Environment and Forests, Govt. of India, New Delhi**. From August 2008 – July 2011. **Total Grant Rs. 16.43 lakhs.**
3. Determination of shelf life period of vermicompost with special reference to its physical, chemical and biological parameters. Funded by **University Grants Commission** from April 2009 to September 2010. **Total Grant: 1,25,000/-.**
4. A Voluntary Network Project Centre of All India Network Project on Vertebrate Pest Management with specialization on Agricultural Ornithology funded by **Indian Council of Agricultural Research, Govt. of India**. The title of the project: Birds of agricultural importance with special emphasis on Owls in Central Districts of Tamil Nadu from November 2014 to March 2017. **Total Grant Rs. 12,09,000/-.**
5. Home Range and Habitat use of Indian Eagle owl (*Bubo bengalensis* Franklin 1831) – a potential predator of Rodent and Insect Pests” funded by **DST-SERB, Govt. of India**. From 28<sup>th</sup> December 2018 – 27<sup>th</sup> December 2021; **Total Grant 39.26 Lakhs.**

#### **EXTENSION ACTIVITIES ATTENDED AND WHEREIN CREATED AWARENESS AMONG FARMERS ON “ECO-FRIENDLY MANAGEMENT OF RODENT PESTS” DURING MY DOCTORAL PROGRAMME**

During the period 1992-1996, I actively involved in the Research and Education of Eco-friendly Method of RODENT PESTS CONTROL viz., "Biological control of Rodents by Barn Owl" in the Agricultural fields of Nagapattinam District, Tamil Nadu in order to avoid pesticides hazards in the environment. Traditional Rodent Control methods of Cauvery Delta were identified and compiled and few methods efficacy were studied under field conditions and they were reported as a part of lab to land technology. Number of agricultural programmes organised by State & Central Governments were attended by me wherein, I created awareness among the farming community about "Biological control of rodents by Barn owl".

#### **EXTENSION PROGRAMMES CONDUCTED AT OUR COLLEGE FOR FARMERS AND STUDENTS**

1. Organised and conducted one day workshop – cum - training programme on “Eco-friendly Techniques of Rodent Pest Management” on 18-03-2004 for farmers from Neighbouring Villages.
2. Organised and conducted one day workshop – cum - training programme on “Drip irrigation: A Novel Irrigation Method” on 11-10-2004 for farmers from Neighbouring Villages.
3. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 21-02-2009 for Students (Boys) of our College.
4. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 23-02-2009 for Students (Girls) of our College.

5. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 07-03-2009 for farmers from Neighbouring Villages.
6. Organised and conducted a “workshop on Eco-friendly Agricultural practices” between 31.07.2010 to 02.08.2010 for farmers from Neighbouring Villages under Dissemination of Innovative Technology from Tamil Nadu State Council for Science Science and Technology, Chennai.
7. Organised and conducted three day workshop – cum – Intensive training programme on “Poultry and Dairy farming” between 02-02-2011 and 04-02-2011 for graduate students.
8. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 09.02.2013 for farmers from Neighbouring Villages.
9. Organized and conducted one day workshop cum training programme on “Techniques of vermicomposting and their applications” on 27.02.2014 for post graduate students of St. Joseph College (Autonomous), Trichy.
10. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 08.02.2014 for Students of our College.
11. Organized and conducted one day workshop cum training programme on “Techniques of vermicomposting and their applications” on 08.03.2014 for graduate students of our college.
12. Organized and conducted an extraordinary meeting on “Importance of conserving Avifauna around us” on 15.12.2015 for our students.
13. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 13.07.2015 for Students of our College.
14. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 18.07.2015 for Students of our College.
15. Organised and conducted one day workshop – cum - training programme on “Techniques of Vermicomposting and their applications” on 24.09.2016 for Students of our College.

### **QUANTITY OF VERMICOMPOST PRODUCED**

**Magnitude of Vermicompost produced from April 2007 to December 2022 was 542 tonnes.**

### **MEMBER IN SCIENTIFIC BODIES**

Society for Applied Ornithology, Hyderabad.

Member in Network of Rodentia, Insectivora and Scandentia Conservation & Information Network of South Asia (RISCINSA), COIMBATORE.

### **MEMBER IN BOARD OF STUDIES**

U.G. and P.G. in Nehru Memorial College (Autonomous), Puthanampatti, Tiruchy-Dt.

U.G. and P.G. in A.V. C. College (Autonomous), Mannampandal, Mayiladuthurai

U.G. and P.G. in Periyar E.V.R. College (Autonomous), Tiruchirappalli

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*Curriculum Vitae of Dr. PERIYASAMY NEELANARAYANAN, Ph.D.,  
(Updated up to March, 2024)*

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U.G. and P.G. in Bharathidasan University, Tiruchirappalli  
**MEMBER IN EDITORIAL BOARD OF JOURNALS**

1. THE ASIAN JOURNAL OF ANIMAL SCIENCE
2. RESEARCH JOURNAL OF ANIMAL HUSBANDRY AND DAIRY SCIENCE

**MEMBER IN DOCTORAL COMMITTEE OF OTHER COLLEGES**

1. Dr. Uma, National College, Tiruchy
2. Dr. Nirmala Natarajan, Periyar E.V.R. College, Tiruchy.
3. Dr. S. Asokan, AV.C. College (Autonomous), Mayiladuthurai.
4. Dr. M. Jayanthi, S. R. College (Autonomous), Tiruchy.
5. Dr. M. Vasanthi, Bharathidasan University, Tiruchy.
6. Dr. S. Angelina Glorita Parimala, A.D.M. College for Women, Nagapattinam.

**ACTED AS AN EXTERNAL EXAMINER FOR PH.D., VIVA-VOCE EXAMINATION**

1. Kongunadu Arts and Science College (Autonomous), Coimbatore
2. Mr. P.K. Ramasamy, P.G. and Research Department of Zoology, Kongunadu Arts and Science College (Autonomous), Coimbatore

**SUBJECT EXPERTISE SERVICES OFFERED/BEING OFFERED**

1. Acted as a subject expert on "Bio-control of Rodent Pests" for the visiting team of Two Armenians delegates (Republic of Armenia, formerly a part of Russia) who visited India with Food and Agricultural Organisation's financial assistance between 7<sup>th</sup> and 8<sup>th</sup> November 2005.
2. INFLIBNET, AHMEDABAD.  
Specialization: Management of Rodent Pests and Vermibiotechnology

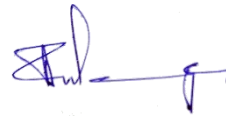
**RADIO TALK**

1. Presented a radio talk on "***Kottan valarppom! Eligal olippom!!***" through All India Radio, Tiruchirappalli on 24-10-2004.
2. Presented a radio talk on "***Soozhal kaappom***" through All India Radio, Tiruchirappalli between 26-09-2010 and 02-10-2010.
3. Presented a radio talk on "***How to control rodent pest?***" through All India Radio, Tiruchirappalli on 12.01.2016.

**DECLARATION**

I hereby declare that all the statements made in this **CURRICULUM VITA** are true to the best of my knowledge and belief.

Place: Puthanampatti  
Tamil Nadu, India  
Date: March, 2024



**(Dr. P. NEELANARAYANAN)**