

CURRICULUM VITAE

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1. **Date of Birth** : November 15, 1973
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Professional Experience

- **Bioprospecting of forest resources** for biopesticide, bioboosters, natural colourants, biofuel and phyto products
- Characterization of bioactive compounds of plant and microbial origin.
- Instrumentation techniques such as column chromatography, TLC, HPLC, GCMSMS.
- Insect taxonomy (Orthoptera :Tettigoniidae)
- Climate change on forest insects and biodiversity conservation.
- Insect-plant interactions.
- Ecofriendly pest management – Biopesticides
- Development and implementation of EIA procedures.
- Carbon sequestration potential of forests.
- Handled more than **10 research projects** funded by ICFRE, DST, MoEFs, etc.
- Involved in development of 7 products : biopesticides namely, **Vilvekam, Hy-Act, Tree-PAL^H, Ento-fight Nasa, Crawl clean** and a biobooster called **Treerich biobooster** and a Phytomedicine named **R-500**
- Published more than **50 research papers** in journals of national and international repute, **10 books**, 12 chapters in books, 15 popular articles in his credit.
- Imparted 6 trainings on Bioprospecting of forest resources to IFS officers, scientists, academicians, Research scholars and students.
- **Awarded** DST under Young Scientist in the year 2005; DST international Travel support to visit Thailand; and “**Outstanding scientist in Entomology**” by VISF.

4. Academic qualification : M.Sc., M. Phil, Ph.D

Name of the Certificate /Degree /Diploma along with subject	Year of Passing	Division	% of Mark
Ph.D., in Zoology (specilization in Entomology)	2003	Commendable thesis	
M. Phil., in Zoology (specilization in Entomology)	1997	I	73 (I rank)
M.Sc., in Zoology (specilization in Entomology)	1996	I (Distinction)	78 (I rank)
B.Sc., in Zoology (specilization in Entomology)	1994	I (Distinction)	79 (I rank)

Ph.D., Thesis title: Biodiversity of tettigoniids of Tamil Nadu and Bioecological characteristics of *Conocephalus maculatus* (Le Guilou) (Orthoptera:Tettigoniidae:Conocephalinae)

Work experience:

S. No.	Organisation where experience gained	Designation/G rade	Period	
			From	To
1	Institute of Forest genetics and Tree Breeding, Coimbatore	Scientist ‘E’	1 st July, 2015	Till date
2	Institute of Forest genetics and Tree Breeding, Coimbatore	Scientist ‘D’	1 st July, 2011	30 th June, 2015

3.	Institute of Forest genetics and Tree Breeding, Coimbatore	Scientist 'C'	22 nd April, 2009	30 th June, 2011
4.	Forest Research Centre, Hyderabad	Scientist 'C'	22 nd January, 2008	19 th April, 2009
5.	Rain Forest Research Institute, Jorhat	Scientist 'C'	1 st July, 2007	21 st January, 2008
6.	Rain Forest Research Institute, Jorhat	Scientist 'B'	25 th April, 2003	30 th June, 2007
7.	G.S. Gill Research Institute, Guru Nanak College, Chennai.	Project Assistant	June, 1999	August, 2002
8.	Madura College, Madurai	Lecturer (Ad-hoc)	July, 1997	June, 1999

Research Projects

As Principal Investigator(PI)

S. No.	Name of the agency	Title of the scheme	Period		Grant in Lakhs Rs.	Remarks
			From	To		
1.	DST (Young Scientist) RFRI/EP/10	Augmentation of entomopathogenic fungi for the management of <i>Caloepela leayana</i> on <i>Gmelina arborea</i> : An ecofriendly approach	2005	2007	7.30	Completed
2.	ICFRE RFRI/FE/11	Development of an ecofriendly strategy for the management of <i>Caloepela leayana</i> on <i>Gmelina arborea</i>	2004	2007	2.5	Completed
3.	ICFRE RFRI/FE/12	Bioecological Studies of seed insect pests of <i>Dipterocarpus retusus</i>	2005	2008	1.26	Completed
4.	MoEFs RFRI/EP/14	Biodiversity studies of Orthoptera in Kaziranga National Park, Assam	2006	2009	6.35	Completed
5.	ICFRE	Evaluation of certain flora based on ethnobotanical records for their pesticidal properties against important forestry insect pests.	2010	2013	8.0	Completed
6.	ICFRE	Orthopteran diversity of the Nilgiri Biosphere Reserve (Tamilnadu part)	2010	2013	8.0	Completed
7.	ICFRE	Anti- insect secondary metabolites from fungal endophytes of selected tree species.	2011	2014	12.14	Completed

As Co- Investigator (Co-PI)

S. No.	Name of the agency	Title of the scheme	Period		Grant in Lakhs Rs.	Remarks
			From	To		
1	MoEFs RFRI/EP/12	Biological control of <i>Mimosa invisa</i> , a destructive alien weed threatening Kaziranga National Park grassland.	2006	2009	9.17	Completed
2.	ICFRE RFRI/FP/11	Investigation on the formation of agar wood in <i>Aquilaria malaccensis</i> Lamk.	2006	2009	1.20	Completed
3.	DST	Prospecting bioactive compounds from certain flora: Biopesticides against papaya mealybug, <i>Paracoccus marginatus</i> Williams and Granara de Willink. in Tamilnadu- TNSTC – DST	2011	2014	12.00	Completed
4.	MoEF	Insecticidal potential and Biological activity of <i>semicarpus anacardium</i> against Defoliators	2015	2018	13.27	Ongoing
5.	DBT - BIRAC	Registration and commercialization of the most effective biopesticide formulation using the seed extract of <i>Hydnocarpus pentandra</i> for the management of insect pests of agriculture and forestry importance	2015	2018	178	Sanctioned

Consultancy projects awarded

S. No.	Name of the agency	Title of the scheme	Period		Grant in Lakhs Rs.	Remarks
			From	To		
1.	SCCL - Singereni	Study on diversion of Gorrepeta vagu	2008	2009	3.0	As PI

	Collieries Company Limited, Manuguru, Khammam, Andhra Pradesh	impact assessment on flora and fauna – Singereni Collieries Company Limited, Manuguru, Khammam, Andhra Pradesh				
2.	ITC infotech , Bangalore	Biomass estimation and carbon sequestration of trees maintained by ITC Infotech Ltd, Bangalore	2008	2008	2.39	As a co-investigator
3.	Bhutan EIA studies	EIA on fauna and flora for Hydroelectric project at Bhunaka and Sankosh in Bhutan	2009	2009	--	As a team member

Products & Technology

1. The product on **Biopesticides -Vilvekam** (Bael, *Aegle marmelos* seed oil based formulation) was developed and released.
2. **Hy-Act –Biopesticide-Hydnocarpus pentandra** seed oil based preformulated biopesticide against teak defoliator *Hyblea parea*, casuarina bark eating caterpillar *Inderbela quadrinotata* and ailanthus defoliator *Eligma narsisuss* was developed and released by the Honb. Minister of Environment and Forest, Smt. Jeyanthi Natarajan to the farmers during tree growers mela, February, 2012 held in IFGTB at Coimbatore.
3. **Tree PAL^H** a new biopesticidal product of seed oil based formulation developed from *Hydnocarpus pentandra* was released during “Tree growers Mela February, 2013” at Institute of Forest Genetics and Tree Breeding, Coimbatore.
4. **Tree rich biobooster**” using ecofriendly organic materials for growth improvement of fast growing trees species such as *Casuarina*, *Gmelina*, *Ailanthus*, *Melia* and *Eucalyptus* has been developed and introduced during “Tree growers Mela February, 2013” at Institute of Forest Genetics and Tree Breeding, Coimbatore
5. **R-500**” Phytomedicine-(rejuvenating capsule) for antidepressant, anxiolytic and hypoglycemic properties from aegle fruit has been developed with due pharmacological evaluation.
6. A **microbial biopesticide** from endophytic fungus of entomopathogenic significance *Nigrospora sphaerica* **Ento-Fight Nasa** has been developed and released by DG, ICFRE during 19&20th November, 2014.
7. **Crawl clean** – Botanicals based **Biopesticide** has been developed and released by Secretary, MoEF on 16th June 2015 for the management of Papaya mealybug, *P. marginatus*.
8. **Key for identification of fifty two species of Orthoptera of Nilgiri Biosphere Reserve** and released by DG, ICFRE during 19&20th November, 2014.
9. **Vermico-IPM** (Instant organic potting mixture) was developed and released on 2nd February, 2016.

Publications

1. Lenora, L. M., Suresh Babu, D., Senthil Kumar, J., and **Senthilkumar, N.** (2016). GC-MS-MS analysis of Alien Invasive Aquatic weed, *Eichhornia crassipes* (Mart.) Solms. *Der Chemica Sinica*, 7(3): 48-52
2. Srinivasan, A., D. Suresh Babu, N. **Senthilkumar** and S. Murugesan (2016). Physicochemical properties and phytochemical constituents of *Semecarpus anacardium* L. Seed oil. *Advances in Applied Science Research*, 7(3):151-154.
3. S. Murugesan, V. Mohan, N. **Senthilkumar**, R. Lakshmidevi, D. Suresh Babu and R. Sumathi (2016). Effects of growing media with bioinoculants on quality seedlings production of *Eucalyptus tereticornis* in nursery conditions. *European Journal of Experimental Biology*, 6(3):86-93.
4. S. Murugesan, N. **Senthilkumar**, D. Suresh Babu and D. Rajasugunasekar (2016). Chemical constituents and toxicity assessment of the leaf oil of *Lantana camara* Linn. from Tamilnadu regions. *Asian Journal of Plant Science and Research*, 6(3):32-42.
5. Sri Harini, R., A. Saivikashini, G. Keerthana, K. Kumaresan, S. Murugesan and N. **Senthilkumar** . 2016. Profiling metabolites of *Carica papaya* Linn. variety CO7 through GC-MS analysis. *Journal of Pharmacognosy and Phytochemistry*, 5(2): 200-203 (**IF.0.22**)
6. Vijayaraghavan, A. and N. **Senthilkumar**. 2016. Incidence of *Cossus cadambae* Moore (Lepidoptera:Cossidae) on *Neolamarckia cadamba* (Roxb.) Miq. (Rubiaceae). ENVIS newsletter-Forest Genetic Resources and Tree Improvement, 2(3): 9-10.
7. Murugesan, S., N. **Senthilkumar**, D. Suresh Babu, and D. Rajasugunasekar. 2016. Chemical composition, antifeedant and insecticidal activities of Tree borne oil seeds. *Pestology*, XL (2): 29-41

8. Lenora, L. M., Suresh Babu, D., Senthil Kumar, J., and **Senthilkumar, N.** (2016). *Eichhornia crassipes* (Mart.) Solms. - An alternate renewable source for Shikimic acid, a precursor for Tamiflu, a swine flu drug. *Journal of Pharmacognosy and Phytochemistry*, 5(1): 178-181 (**IF:0.22**)
9. Lenora, L. M., Senthil Kumar, J., Murugesan, S., and **Senthilkumar, N.** (2015). Anticancer activity of water hyacinth, *Eichhornia crassipes* (Mart.) Solms. On human cervical cancer cell line. *Octa Journal of Environmental Research*, 3(4): 327-331
10. **Senthilkumar, N.** 2015. Socio-economic status of forest fringe villages in Tiruvannamalai District, Tamilnadu. *JAEERD*, 3(10):317-325
11. **Senthilkumar, N.**, A. Mayavel, S. P. Subramani, K. Balaji and P. Deenathayalan. 2015. Red sanders, *Pterocarpus santalinus* L. in Rajampet Forest Range, Rajampet Forest Division, Andhra Pradesh, INDIA, *AASR*, 6(10):130-134
12. **Senthilkumar, N.**, S. Murugesan, and D. Suresh Babu. 2015. Cellulolytic activity of gut extract of subterranean termite, *Odontotermes obesus* Rambur: A pretreatment tool for conversion of lignocellulosic biomass to fermentable sugar for biorefinery industry. *African Journal of Biotechnology*, 14(20):1753-1756 (**IF:0.57**)
13. **Senthilkumar, N.**, S. Murugesan, R. Sumathi and D. Suresh Babu. 2015. Compositional analysis of lignocellulosic biomass from certain fast growing tree species in India. *Der Chemica Sinica.*, 6 (2): 25-28
14. **Senthilkumar, N.**, V. Mohan and S. Murugesan. 2014. Studies on endophytic fungi of commercially important tropical tree species in India. *Kavaka*, 43: 22-31.
15. **Senthilkumar, N.**, S. Murugesan, and D. Suresh Babu. 2014. Secondary metabolites and nutrient balance in casuarinas: An insight into Protein Competition Model (PCM). *J. Adv. Lab. Res. Biol.*, V(IV): 107-111..
16. **Senthilkumar, N.**, S. Murugesan, D. Suresh Babu and C. Rajeshkannan. 2014. GC-MS analysis of the extract of endophytic fungus, *Phomopsis* sp. Isolated from tropical tree species of India, *Tectona grandis* L. *IJRSET*, 3(3): 10176-10179. (**IF:1.672**)
17. **Senthilkumar, N.**, S. Murugesan, and D. Suresh Babu. 2014. Metabolite profiling of the extracts of endophytic fungi of entomopathogenic significance, *Aspergillus flavus* and *Nigrospora sphaerica* isolated from tropical tree species of India, *Tectona grandis* L. *Journal of Agriculture and Life Sciences*, 1(1): 108-114
18. **Senthilkumar, N.**, S. Prakash, C. Rajesh Kannan, A. Arun Prasth and N. Krishnakumar. 2014. Revisiting forest types of India (Champion and Seth, 1968): A case study on Myristica swamp forest in Kerala. *IJAR*, 2(2):492-501 (**IF:1.659**)
19. **Senthilkumar, N.**, K. Thangapandian, S. Murugesan, J. P. Jacob and N. Krishnakumar. 2013. Invasive Alien Eucalyptus gall wasp, *Leptocybe invasa* (Fisher and Lasalle): A Threat to Eucalyptus Plantations in Tamilnadu (INDIA). *AJE*, 6(3):146-152
20. Rajeshkannan, C., S. Murugesan and **N. Senthilkumar**. 2013. Current status of papaya mealybug *Paracoccus marginatus* and its management strategies in Tamilnadu" *Pestology*, XXXVII (12): 21-24
21. **Senthilkumar, N.**, S. Murugesan, V. Mohan and J. Muthumary 2013. Taxol producing fungal endophyte, *Colletotrichum gleosporioides* (Penz.) from *Tectona grandis* L. *Current Biotica*, 7 (1&2): 8-15
22. **Senthilkumar, N.**, S. Murugesan and K. Thangapandian. 2013. Present status of eucalyptus gall insect, *Leptocybe invasa* (Fisher and LASalle) in Tamilnadu. *Current Science*, 104(9):1135-1136 (**IF:0.905**)
23. **Senthilkumar, N.**, and N.D. Borthakur. 2013. Impact of natural and anthropogenic disturbances on Orthopteran community in Kaziranga National Park, Assam, India. *The Indian Forester*, 139 (6): 547-552
24. Murugesan, S., **N. Senthilkumar**, K.B. Vijayalakshmi and C. Rajeshkannan (2013). Phytochemical characterization of *Melia dubia* for their biological properties, *Der Chemica Sinica*, 4(1):36-40.
25. Murugesan, S., C. Rajeshkannan, A. Mayavel, **N. Senthilkumar** and D. Suresh Babu. 2012. Bioprospecting of Forest Natural Resources: As Natural Dyes, *Pestology*, XXXVI (11):26-33.
26. **Senthilkumar, N.**, and S. Murugesan. 2012. Bioprospecting the renewable forest resources: An overview. *Current Biotica*, 5(4): 522-540
27. **Senthilkumar, N.**, and S. Murugesan. 2012. Insecticidal properties of certain flora based on ethnobotanical records against teak defoliator, *Hyblaea puera* Cramer (Lepidoptera: Hybaeidae), *European Journal of Experimental Biology*, 2 (3): 513-519. **5- citations**
28. **Senthilkumar, N.**, S. Murugesan and K. B. Vijayalakshmi. 2012. GC-MS-MS analysis of *Trichilia connaroides* (Wight & Arn.) Benth (Meliaceae): A tree of ethnobotanical records, *Asian Journal of Plant Science and Research*, 2(2): 193-197 – **8 citations**
29. Murugesan, S., **N. Senthilkumar**, N. Krishnakumar, D. Suresh Babu, C. Rajeshkannan, P. Manivachakam and R. Sumathi. 2012. Hy-Act (HyPSO 25 EC)- Seed oil based biopesticide from *Hydnocarpus pentandra*: An IPM for some of the defoliators of forest trees. *Pestology*, XXXVI (3): 12-14.

30. Murugesan, S., **N. Senthilkumar**, R. Sumathi, P. Manivachakam, and C. Rajeshkannan. 2012. Plants with promising anti-infective activity: role of Bioprospecting. In (Eds.) Nagarajan, B, C. Kunhikannan, K.R. Sasidharan, and N. Krishnakumar. *Tropical Ecosystems: Structure, Function and Services*. pp 362-370.
31. Murugesan, S., R. Sumathi, A. Karthikeyan, **N. Senthilkumar**, and C. Rajeshkannan. 2012. Biotransformation of some secondary metabolites of Frankia-Casuarina relationship. In (Eds.) R.S.C. Jayaraj, Rekha R. Warriar, A. Nicodemus and N. Krishnakumar. pp 283-288.
32. **Senthilkumar**, N. S. Murugesan, N. Bhanu, S. Supriya and C. Rajeshkannan. 2011. Biochemical Estimation and Antimicrobial Activities of the Extracts of *Caesalpinia sappan* Linn. *BJSIR*, 46(4):429-436
33. Krishnakumar, N. S. Murugesan, **N. Senthilkumar**, C. Rajeshkannan, P. Manivachakam, and R. Sumathi. 2011. Vilvekam – *Aegle marmelos* seed oil based biopesticide for the management of teak defoliator, *Pestology*, xxxv (3): 8-9
34. **Senthilkumar**, N., S. Murugesan, K.R. Sasidharan, P. Manivachakam and D. Suresh Babu. Diversity of Orthoptera in Nilgiri Biosphere Reserve (Tamilnadu part): A preliminary observation. 2011. Proceedings on the celebration of International day of biological diversity and Centenary of Fisher Herbarium. organized by IFGTB & NBA published by Director, IFGTB. pp. 95-103
35. **Senthilkumar**, N. 2010. Orthoptera in Kaziranga National Park, Assam, India. *JoTT*, 2 (10): 1227-1231
36. Rajeshkannan, C., S. Supriya, S. Murugesan and **N. Senthilkumar**. 2010. Analysis of anthocyanin in *Caesalpinia sappan* L. and *Carissa carandas* L. using HPLC, *International Journal of Biotechnology and Bioengineering Research*, 1 (1): pp 115-123
37. **Senthilkumar**, N. and S. Murugesan. 2010. Entomopathogenic Fungi for the Management of *Caloptera leayana* on *Gmelina arborea*. *J. Ecobiotechnol.* 2(3): 01-06
38. Murugesan, S., **N. Senthilkumar**, C. Rajeshkannan and S. Supriya. 2010. Fungistatic Action and Biochemical Properties of *Clitoria ternatea* (L.) extracts. *Herbal Tech Industry*, 6(7): 22-24 pdf
39. S. Murugesan, **N. Senthilkumar**, C. Rajeshkannan and S. Supriya. 2010. Pectin quantification and determination from *Tamarindus indica*, *Achras zapota* and *Aegle armelos* using HPLC. *SAJOSPS*, 10(2):100-102 pdf
40. **Senthilkumar**, N. and S. Murugesan. 2010. Sucrose and maltose as carbon sources for fermentative production of polysaccharide by *Aspergillus niger* Van Tiegh. *Recent Research in Science and Technology*, 2 (4): 1-5
41. **Senthilkumar**, N., Saurabh Sarma and Nizara D. Barthakur. 2010. Effect of abiotic factors on the population of *Caloptera leayana* Latr. (Coleoptera: Chrysomelidae) on *Gmelina arborea* (Roxb.) (Verbenaceae) *Indian Forester*, 136 (1): 487-496 – **3 citations** pdf
42. S. Murugesan, **N. Senthilkumar**, S. Supriya and C. Rajeshkannan. 2009. *Cyanodon dactylon* (L.) Pers Poaceae (Gramineae): A Bermuda Grass for Tomorrow. *Pestology*, 13(12): 25-34.
43. **Senthilkumar**, N., and N.D. Borthakur. 2009. *Acidodes ludificator* Faust: a serious insect pest of nursery and young plantations of *Gmelina arborea* (Roxb.) in northeastern India. *Current Biotica*, 2(4): 493-494. pdf
44. **Senthilkumar**, N., and Nizara D. Barthakur. 2009. Record of seed insect pests of *Dipterocarpus retusus* b.l in Hollongapar Reserve Forests, Assam. *Journal of Tropical Forest Science*, 21(1): 8-12 (**IF: 0.539; NAAS:7**) pdf
45. **Senthilkumar**, N., R. Prakash, K.P. Sanjayan, V. Mahalingam and M.C. Muralirangan. 2009. Diversity and distributional pattern of acridids (Orthoptera: Acrididae) in Tamil Nadu, India. *Indian Journal of Forestry*, 32(2):277-284 pdf
46. **Senthilkumar**, N., and K.P. Sanjayan. 2008. Impact of climate change on embryonic and post embryonic development of *Conocephalus maculatus* (Le Guillou) (Orthoptera: Ensifera: Tettigoniidae: Conocephalinae). *Indian Forester* 134 (1):57-65
47. **Senthilkumar**, N., Nizara D. Barthakur, and M. Lokeswara Rao. 2008. Bioprospecting with reference to Medicinal Insects and tribes in India: An overview. *Indian Forester*, 134 (12) 1575-1591
48. Saurab Sarma, **N. Senthilkumar** and Satyam Kr. Das. 2008. Insect pests of Medicinal plants and their management: An overview. *Indian Forester* 134 (1):105-119
49. **Senthilkumar**, N. 2007. Biological control of insect pests and diseases of forestry importance. *Current Science*, 92(2): 166-167 (**IF:0.905**)
50. **Senthilkumar**, N., S. Trivedi, P.K. Kathri, N.D. Barthakur and N. J. Borah. 2006 Butterfly fauna of Gibbon Wildlife Sanctuary, Assam: A Preliminary survey. *Ann. For.*, 14(1):86-91.
51. N. D. Barthakur and **N. Senthilkumar**. 2006. Impact of diverse trees species on the population dynamics of soil fauna. *Ann. For.*, 14(2): 245-254.
52. **Senthilkumar**, N. 2006. Rearing technology of *Conocephalus maculatus* (Le Goullou) under laboratory conditions (Orthoptera: Tettigoniidae). *Journal of Entomological research*, 30(1):79-81 (**NAAS: 2.0**)

53. **Senthilkumar, N.**, Nizara D. Barthakur and N.J. Borah. 2006. Orthoptera fauna of the Gibbon Wild Life Sanctuary, Assam, *Zoo's Print*, 21(8):2347-2349. **4 - Citations**
54. S. Singh, A. Kumar, **N. Senthilkumar**, and A.N. Singh. 2006. Strategies for the management of *Craspedonta leayana* (Coleoptera:Chrysomelidae) in *Gmelina arborea*. *Indian Forester*, 132 (5):581-588
55. **Senthilkumar, N.**, and K.P. Sanjayan. 2006. Population dynamics and life table studies of *Conocephalus maculatus* in Madras district of Tamil Nadu, India, *Indian Forester*, 132 (9):1167-1184.
56. **Senthilkumar, N.** 2005. Effect of entomopathogenic fungi on different stages of *Calopepla leayana* Latr. (Chrysomelidae:Coleoptera), a major defoliator of *Gmelina arborea* (Roxb.) (Verbinaceae) *Insect Environment*, 11(3):108-111.
57. **N. Senthilkumar** and N.D. Barthakur. 2005. A record of Egyptian fulted scale, *Icerya aegyptiaca* on teak in Assam. *Insect Environment*, 11(1): 31-32
58. **Senthilkumar, N.** 2004. Natural enemies of tettigoniids of Tamil Nadu. *Insect Environment*, 10(2): 81-82.
59. **Senthilkumar, N.** 2004. Morphological adaptations of the gut armature of tettigoniids in relation to food preferences. *Indian Journal Entomology*, 66(3):225-227.
60. **Senthilkumar, N.**, A. Karthikeyan, K.P. Sanjayan, V. Mahalingam and M.C. Muralirangan. 2004. Biological observations of *Himertula vidhyavathiae* sp. Nov. (Orthoptera:Tettigoniidae:Phaneropterinae) under laboratory conditions. *Indian Forester*, 130 (12):1459-1468.
61. K.P. Sanjayan, M.C. Muralirangan, **N.Senthilkumar** and A. Karthikeyan. 2002. Complementarity and taxic difference estimates and priority analysis for an insight into tettigoniid (Orthoptera:Tettigoniidae) diversity in Chennai, Tamil Nadu (INDIA). *Beitr.Ent.*, 52(2):449-460
62. **Senthilkumar, N.** 2001. *Aristolochia bracteata* Retz. extract against tobacco cutworm *Spodoptera litura* (F.) (Noctuidae: Lepidoptera). *Insect Environment*, 7(1): 42-43
63. **Senthilkumar, N.** A.Karthikeyan, M.C. Muralirangan and V. Mahalingam. 2001. Tettigoniidae of Tamil Nadu. *Insect Environment*, 7(2):56-57.

Books

1. **Senthilkumar, N.**, T.C. Bhuyan, D. Dutta, R.K. Borah and R.K. Kalita. 2007. Bamboo in NE India: A management guide –RFRI publication (Copy right to RFRI, Jorhat -Training manual ICFRE/RFRI/TM-2 – **English & Assamese**) pp. 88
2. Murugesan, S. and **N. Senthilkumar**. 2009. Instrumentation methods and chemical analysis. ICFRE/IFGTB/TM-1 – English. pp. 104
3. **Senthilkumar, N.**, S. Murugesan and N. Krishnakumar. 2009. An illustrated guide on insect pests of important tree species in South India. IFGTB Publications, Coimbatore. pp 132.
4. Murugesan, S and **N. Senthilkumar**. 2010. Metabolite profiling: Current Techniques IFGTB Publications, Coimbatore. pp 180.
5. **Senthilkumar, N.**, S. Murugesan, C. Rajeshkannan and N. Krishnakumar.2011. Bioprospecting forest resources: An illustrative catalogue of some flora for biopesticides. IFGTB publications, Coimbatore. pp 56.
6. Murugesan, S., and **N. Senthilkumar**. 2012. Chemical Ecology, Sentinals of plant defences in forest insect plant interactions. LAP Lambert Academic Publishing, Germany. Pp188.
7. Murugesan, S., C.Rajeshkannan and **N. Senthilkumar**. 2012. *Aegle marmelos* seed oil based biopesticide, An Ecofriendly Strategy for the management of teak defoliators. LAP Lambert Academic Publishing, Germany. Pp124.
8. Murugesan, S., **N. Senthilkumar** and N. Krishna Kumar. 2013. Bioprospecting: Scope, challenges and prospects, IFGTB, Pp164.
9. Murugesan, S., **N. Senthilkumar** and N. Krishna Kumar. 2013. Training workshop (manual) on Bioprospecting: Role of state forest departments. IFGTB, Pp 142.
10. **Senthilkumar, N.**, and S. Murugesan. 2014. Orthoptera (Grasshoppers) of Nilgiris Biosphere Reserve: A systematic information. IFGTB, Coimbatore. Pp56. ISBN:978-93-82387-09-1.

Chapter in Editorial book

1. **N. Senthilkumar**, A. Karthikeyan, M.C. Muraliranagan, V. Mahalingam and K.P. Sanjayan. 2002. Tettigoniids of Tamil Nadu: A study on Biodiversity. In: (Eds.) K.P. Sanjayan, V. Mahalingam and M.C. Muraliranagan. *Vistas of Entomological Research for the New Millennium* G.S. Gill Research Institute, Guru Nanak College, Chennai, India. Pp 37-42
2. M.C. Muralirangan, K.P. Sanjayan and **N. Senthilkumar**. 2004. Behavioral and ecological features of Mantids that confer as prospective biocontrol agents. In: K.Sahayaraj (ed.) *Indian insects predators in biological control*. Daya Publishing House, Delhi. Pp 24-60.

- Murugesan, S. and **N. Senthilkumar**. 2010. Ecological Interactions and impact of biodiversity of Insects in Social Forests. In: Prof. T.N. Ananthkrishnan (ed.) Insect Biodiversity: Functional Dynamics and Ecological Perspectives. Scientific Publishers (India), Jodhpur. Pp.107-125
- Senthilkumar, N.**, S. Murugesan, P. Manivachakam, D. Suresh Babu and M. Monisha. 2013. Species richness, climate change and altitudes: A study on diversity of Orthoptera in Nilgiris shola forests and grasslands. 135-142. In (Eds.). Balu *et al.*, Proceedings of the National Seminar on Forest Health Management. 22nd & 23rd March 2012, IFGTB, Pp 586.
- Murugesan, S., R. Sumathi, S. Santhi, **N. Senthilkumar**, C. Rajesh Kannan, P. Manivachakam, and R. Lakshmidevi. 2013. Impact of biochemical signals of Frankia on *Casuarina equisetifolia*. 527-536. In (Eds.). Balu *et al.*, Proceedings of the National Seminar on Forest Health Management. 22nd & 23rd March 2012, IFGTB, Pp 586.

Seminars/Symposia/workshops/conferences/meetings attended during last 5 years - 40

Invited speaker as a resource person

- N. Senthilkumar. 2014. Bioprospecting forest resources. Lecture given for M.Sc., students. Sri Krishna College, Coimbatore on 20.01.2014
- N. Senthilkumar. 2014. Prospects of renewable forest resources for Industrial applications. Lecture given for M.Sc., students. Dr. N. G. P. College, Coimbatore on 28.02.2014.
- Dr.N. Senthilkumar, Scientist-E has inaugurated Zoology Association and delivered a talk on "Bioprospecting of forest resources" at Kongunadu Arts and Science college, Coimbatore on 29.7.2015
- Dr.N. Senthilkumar, Scientist-E has delivered a lecture on "Microbial mediated soil nutrient transformation" in ICAR sponsored CAFT at TNAU, Coimbatore on 7.9.2015
- Dr.N. Senthilkumar, Scientist-E has delivered and demonstrated "Bioproducts developed by IFGTB" during Agro forestry training conducted by IFGTB on 16.10.2015 and 28.11.2015.
- Dr.N. Senthilkumar, Scientist-E has delivered a Guest lecture on "Bioprospecting of Forest resources" to College teachers and University professors during the refresher course held by Immunology department, Madurai Kamaraj University, Madurai on 2.12.2015.

Training imparted

- Imparted training on "Instrumentation methods and chemical analysis" on 27&28th July, 2009 at IFGTB, Coimbatore.
- Imparted training on "Instrumentation methods and chemical analysis" on 9&10th September, 2009 at IFGTB, Coimbatore.
- Imparted training on "Instrumentation methods and chemical analysis" on 27&28th September, 2010 at IFGTB, Coimbatore
- Two days Training workshop on "Bioprospecting-Role of state forest departments need to play" to IFS officials was imparted during 1st & 2nd August, 2013 sponsored by MoEF, Govt. of India. Total of 25 IFS officers from various states participated in the training programme.
- Two days Training workshop on "Bioprospecting-Role of state forest departments need to play" to IFS officials was imparted during 23& 24 July, 2015 sponsored by MoEF, Govt. of India. Total of 25 IFS officers from various states participated in the training programme.

Training attended

S. No.	Type of duties/functions	Period		Organisation where experience gained	Sponsoring agency/funding agency
		From	To		
1	"Biocatalysts for fuels and chemicals from biomass"	7 th August, 2014	21 st August, 2014	TNAU, Coimbatore ICAR-CAFT training	ICAR, new Delhi
2	Training cum workshop on CITES	30 August 2012	31 August, 2012	IFGTB, Coimbatore.	MoEF
3	Foundation Training Program for Scientists and Technologists	8 th November, 2010	28 th January, 2011	IIPA, New Delhi	DST, New Delhi
4	Quantum GIS Open source Application	11 October, 2011	22 October, 2011	IFGTB, Coimbatore	ICFRE
5	Insect pest management	9 th February, 2009	19 th February, 2009	NCIPM, IARI, New Delhi	ICFRE
6	Mainstreaming Biodiversity in impact assessment	18 th August, 2008	22 nd August, 2008	Wild Life Institute of India (WII), Dehradun	ICFRE

7	Training on Decision support tools & techniques for senior Scientists, sponsored by DST, New Delhi.	28 th April, 2008	to 2 nd May, 2008	Administrative Staff College of India, Hyderabad	DST
8	Training on application of statistical tools using SPSS in forestry research as a trainee.	23 rd September, 2003	25 th September	Rain Forest Research Institute, Jorhat	ICFRE

Foreign visits during the past 5 years

Name of the country place/Institution	Purpose of visit	Year and duration of visit	Sponsoring agency/Funding Agency
Bhutan	EIA on fauna and flora for Hydroelectric project at Bhunaka and Sankosh in Bhutan	2009	ICFRE
Thailand	6 th International conference on Biopesticides –ICOB6	2011	DST

Awards & honors

DST under Young Scientist in the year 2005

DST international Travel support in 2010 to visit Thailand

Outstanding scientist in Entomology in the year 2015 by VIF, Chennai