

Dr. N. Senthilkumar

Dr. N. Senthilkumar is an entomologist presently involving in studying the plant secondary metabolites for the development of biopesticide formulation against forestry insect pests, natural products, climate change impacts on forest insects, and biodiversity of Insects.



Current activities and research interests

General research interests focus on bioprospecting forest resources with special reference to the development of plant based biopesticides and phyto products; climate change on forest insects and biodiversity conservation.

- Validation of certain flora for pesticidal properties.
- Secondary metabolites from endophytes for insecticidal properties.
- Phyto products for various end uses.
- Biodiversity of insect in Western Ghats.

Formal education

B.Sc (Zoology), Madura College, Madurai (Madurai Kamaraj University) - 1994

M.Sc (Zoology), Ayya Nadar Janaki Ammal College, Sivakasi (Madurai Kamaraj University) - 1996

M.Phil (Zoology), Thiagarajar College, Madurai (Madurai Kamaraj University) -1997

Ph.D, (Zoology- Entomology), Gill Research Institute, Chennai (Madras University) - 2003

Experience

Dr. N. Senthilkumar has worked on Biodiversity of insect fauna of North East India, involved in conservation of biodiversity and environmental protection programmes in Northeastern states of India besides having experience in the development of ecofriendly strategy for the management of insect pests of forestry importance.

He was involved in development and implementation of EIA procedures in Andhra Pradesh, and insect pests management of important tree species in Andhra Pradesh.

He was awarded a research project by DST under Young Scientist scheme.

He has handled research projects funded by ICFRE, DST, MoEFs etc.

He has rendered consultancy services on EIA and Carbon sequestration potential viz., “Study on diversion of Gorrepeta vagu impact assessment on flora and fauna – Singereni Collieries Company Limited, Manuguru, Khammam, Andhra Pradesh” and “Biomass estimation and carbon sequestration of trees maintained by ITC Infotech Ltd, Bangalore” in the capacity of Project leader and a Co-Investigator.

He has to his credit training manual on “Management of Bamboo” in English and Assamese and “Instrumentation methods and chemical analysis”, “Metabolite profiling: Current Techniques” besides books on “An illustrate guide on insect pest of important tree species in southern India” “Orthoptera of Nilgiri Biosphere Reserve” and Bioprospecting forest resources: An illustrative catalogue of some flora for biopesticides. He played a key role in developing biopesticides namely, Vilvekam, Hy-Act, Tree-PAL^H, Ento-fight *Nasa* and a biobooster called Treerich biobooster.

Organisational details

Institute of Forest Genetics and Tree Breeding
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Research Projects

S. No.	Title	Year	Funding Agency
1.	Augmentation of entomopathogenic fungi for the management of <i>Caloepela leayana</i> on <i>Gmelina arborea</i> : An ecofriendly approach	2005-2007	DST
2.	Development of an ecofriendly strategy for the management of <i>Caloepela leayana</i> on <i>Gmelina arborea</i>	2004-2007	ICFRE
3.	Bioecological Studies of seed insect pests of <i>Dipterocarpus retusus</i>	2005-2008	ICFRE
4.	Biodiversity studies of Orthoptera in Kaziranga National Park, Assam	2006-2009	MoEF
5.	Evaluation of certain flora based on ethnobotanical records for their pesticidal properties against important forestry insect pests.	2010-2013	ICFRE
6.	Orthopteran diversity of the Nilgiri Biosphere Reserve (Tamilnadu part)	2010-2013	ICFRE
7.	Anti- insect secondary metabolites from fungal endophytes of selected tree species.	2011-2014	ICFRE
8.	Contributory factors in the establishment of <i>Leptocybe invasa</i> (Fisher and LaSalle) on Eucalyptus plantations in Tamilnadu	2012-2015	MoEF

Consultancy projects

S. No.	Name of the agency	Title of the scheme
1.	SCCL - Singereni Collieries Company Limited, Manuguru, Khammam, Andhra Pradesh	Study on diversion of Gorrepeta vagu 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
3.	Bhutan EIA studies	EIA on fauna and flora for Hydroelectric project at Bhunaka and Sankosh in Bhutan

Seminar organized

Organized a seminar on “Recent trends in Biological Control of Insect pests and diseases of Forestry importance” held on 18th September, 2006 at Rain Forest Research Institute, Jorhat, Assam sponsored by Science & Society Division, DST, New Delhi

Training imparted

1. One day Farmers’ Training on “Scientific management of Bamboos in Nursery, Plantation and Storage” held on 19th September, 2007 at Rain Forest Research Institute, Jorhat, Assam under the project (SP/YO/027/ 2004).
2. Imparted training on “Instrumentation methods and chemical analysis” on 27&28th July, 2009 at IFGTB, Coimbatore.
3. Imparted training on “Instrumentation methods and chemical analysis” on 9&10th September, 2009 at IFGTB, Coimbatore.
4. Imparted training on “Instrumentation methods and chemical analysis” on 27&28th September, 2010 at IFGTB, Coimbatore
5. 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.

Training

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.	May, 2004	-	Rain Forest Research Institute, Jorhat	ICFRE
9.	Training on application of improved technology for afforestation in NE India sponsored by NAEB-NEHU 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

Publications of Dr. N. Senthilkumar

1. **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
2. **Senthilkumar, N.**, V. Mohan and S. Murugesan. 2014. Studies on endophytic fungi of tropical tree species in India. *Kavaka*, 43: (in press)
3. **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)
4. **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
5. **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)
6. **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
7. 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

8. **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
9. **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**)
10. **Senthilkumar, N.**, S. Murugesan, P. Manivachakam, D. Suresh Babu and M. Monisha. 2012. Changing Orthoptera (Arthropoda: Insecta) diversity in Nilgiri sholas and grasslands, a sign of climate change?, *JoTT*, (In press)
11. **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
12. 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.
13. 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.
14. **Senthilkumar, N.**, and S. Murugesan. 2012. Bioprospecting the renewable forest resources: An overview. *Current Biotica*, 5(4): 522-540
15. **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.
16. **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
17. 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.
18. 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.
19. 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.
20. **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
21. 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
22. **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
23. **Senthilkumar, N.** 2010. Orthoptera in Kaziranga National Park, Assam, India. *JoTT*, 2 (10): 1227-1231
24. 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
25. **Senthilkumar, N.** and S. Murugesan. 2010. Entomopathogenic Fungi for the Management of *Calopectra leayana* on *Gmelina arborea*. *J. Ecobiotechnol.* 2(3): 01-06
26. **Senthilkumar, N.** and S. Murugesan. 2010. *Aspergillus niger* Van Tiegh., A Promising Bioprospecting Fungus For The Production of Exopolysaccharide. *Advanced biotech*, 9(12): 44-47.
27. 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
28. 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
29. **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

30. **Senthilkumar, N.**, Saurabh Sarma and Nizara D. Barthakur. 2010. Effect of abiotic factors on the population of *Calopepla leayana* Latr. (Coleoptera: Chrysomelidae) on *Gmelina arborea* (Roxb.) (Verbenaceae) *Indian Forester*, 136 (1): 487-496
31. 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.
32. **Senthilkumar, N.**, and N.D. Borthakur. 2009. *Alcidodes ludificator* Faust: a serious insect pest of nursery and young plantations of *Gmelina arborea* (Roxb.) in northeastern India. *Current Biotica*, 2(4): 493-494.
33. **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**)
34. **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
35. **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
36. **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
37. 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
38. **Senthilkumar, N.** 2007. Biological control of insect pests and diseases of forestry importance. *Current Science*, 92(2): 166-167 (**IF:0.905**)
39. **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.
40. 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.
41. **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**)
42. **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.
43. 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
44. **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.
45. **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.
46. **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
47. **Senthilkumar, N.** 2004. Natural enemies of tettigoniids of Tamil Nadu. *Insect Environment*, 10(2): 81-82.
48. **Senthilkumar, N.** 2004. Morphological adaptations of the gut armature of tettigoniids in relation to food preferences. *Indian Journal Entomology*, 66(3):225-227.
49. **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.
50. 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
51. **Senthilkumar, N.** 2001. *Aristolochia bracteata* Retz. extract against tobacco cutworm *Spodoptera litura* (F.) (Noctuidae: Lepidoptera). *Insect Environment*, 7(1): 42-43
52. **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

2. 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. Muraliranagan, 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.
3. Murugesan, S. and **N. Senthilkumar**. 2010. Ecological Interactions and impact of biodiversity of Insects in Social Forests. In: Prof. T.N. Ananthakrishnan (ed.) *Insect Biodiversity: Functional Dynamics and Ecological Perspectives*. Scientific Publishers (India), Jodhpur. Pp.107-125.
4. 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.
5. 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.
6. **N. Senthilkumar**, 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. FHM proceedings, IFGTB, Coimbatore (in press)
7. Krishna Kumar, N. and **N. Senthilkumar**. 2013. Forest health monitoring network and applied forest protection strategies for modern forest management. FHM proceedings, IFGTB, Coimbatore (in press).

Popular article

1. Senthilkumar, N., C. Rajeshkannan, R. Sumathi and P. Manivachakam 2011. *ÁçøŠÀ, ò pŞ¼; , µ÷ Ò¼çĀ âi°çĀçĀðĒ. ĀĪĀ Āç¼ý, ²òÃø p¼ú, Āi, ò-54.*
2. Krishnakumar, N., S. Murugesan, N. Senthilkumar, C. Rajeshkannan, P. Manivachakam and R. Sumathi 2011. *°øĀð ¼Īð ĀçøŠÀ, ò. ç; ò ĒĀ÷, ²òÃø p¼ú, Āi, ò-32-33.*
3. Krishnakumar, N., S. Murugesan, N. Senthilkumar, C. Rajeshkannan, P. Manivachakam and R. Sumathi 2011. *"ĀçøĀð" ´Ī «¼ç°Ā ĀĀĀ", (ĀĒ Āçø¼çüĪ*

4. Senthilkumar, N. and S. Murugesan. 2011. *Ôççâ ãâ÷á âî°çì |,;øÄçÄ; . ÄÿÄîðøÄî,çÈÐ). ÄÇÕõ ÄçÄ°;Ä çÄçÆ,õ, ²õÄø þçú, Äì,õ-33-34.*
5. **Hy-Act, Tree PAL^H and Treerich biobooster** in *ÄÄÕõ SÄÇ;ñ"Á, September, 2013.*
6. Dinamalar about the products developed by IFGTB on 13.6.13. *ÄÄì,ýÚ,,"Ç Ä;Ð,;ìÌõ ãâ÷áâî°çì |,;øÄç.*
7. Daily Thanthi- *Sçìì, °×ìì ç;üÙì,"Ä ÄÇ÷ì, ã×õ ÄÄç÷ °ì,ç, 13.6.13.*
8. Ecofriendly planting stock-A boon for farmers. 13.6.13
9. *÷õ× ÓÈ×,û- TNAU portal, June 2013, ð;£ Ä;ø ãâ÷á âî°çì |,;øÄç.*
10. *Äí"Á Äç,ý - ÄÄì,ýÚ,û "üÀðçììõ ÄÿÄîð þÄü", "Äí,û ÄüÈçÄ ã;öì°ç. 27.9.2013.*
11. *ÄÄÕõ SÄÇ;ñ"Á, September, 2013.ÄÄì,,"Ç ç;ììõ âî°ç,"Ç ,ðîðÄîððõ "† -ìð, ð;£ Ä;ø.*
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