

**Dr. A. NARESH KUMAR**  
Assistant Professor



**ACADEMIC BACKGROUND**

S. No.	Examination Passed (with main subject)	University / Institution	Year of passing	% of Marks / Grade Class/Rank	Remarks
1	Ph. D. Zoology	Bharathiar University	2011	Highly commended	-
2	M.Sc. Zoology	Bharathiar University	2006	82% (Distinction)	I class
3	B.Sc. Zoology	Bharathiar University	2004	74%	I class

**PAPERS PUBLISHED AT NATIONAL/ INTERNATIONAL JOURNALS**

S. No.	International
1.	S. Kamala Kannan, K. Murugan, <b>A. Naresh Kumar</b> , N. Ramasubramanian and P. Mathiyazhagan (2008). Adulticidal effect of fungal pathogen, <i>Metarhizium anisopliae</i> on malarial vector <i>Anopheles stephensi</i> (Diptera: Culicidae). African Journal of Biotechnology Vol. 7 (6), pp. 838–841. (Impact factor: 0.573).

2.	<b>A. Naresh kumar</b> , S. Umavathi and M. Manimegalai (2009). Mosquitocidal Potential of <i>Jatropha curcus</i> against Filarial Vector <i>Culex Quinquelifaciatus</i> . Asian Jr. of Microbiol. Biotech. Env. Sc. Vol. 11, No. (1): 25-29.
3.	S. Kamalakannan, K. Murugan, <b>A. Naresh kumar</b> , M. Jeyanthi and P. Mathiazhagan (2009). Larvicidal and Smoke Toxicity Effect of <i>Tridax procumbens</i> against Malarial Vector, <i>Anopheles stephensi</i> (Diptera: Culicidae). Asian Jr. of Microbiol. Biotech. Env. Sc. Vol. 11, No. (2): 1-6.
4.	K. Shobana, K. Murugan and <b>A. Naresh kumar</b> (2010). Influence of Host Plants on Feeding, Growth and Reproduction of <i>Papilio polytes</i> (The Common Mormon). Journal of Insect Physiology. 56 (9):1065-70. <b>(Impact factor: 2.449)</b>
5.	K. Prabhu, K. Murugan, <b>A. Naresh Kumar</b> , N. Ramasubramanian, S. Bragadeeswaran (2011). Larvicidal and repellent potential of <i>Moringa oleifera</i> against malarial vector, <i>Anopheles stephensi</i> Listen (Insecta: Diptera: Culicidae). Asian Pacific Journal of Tropical Biomedicine, 127-132.
6.	K. Murugan, Jiang-Shiou Hwang, K. Kovendan, K. Prasanna kumar, C. Vasugi and <b>A. Naresh Kumar</b> (2011) Use of Plant Products and Copepod for the Control of Dengue Vector, <i>Aedes aegypti</i> , Hydrobiologia, 666:331–338. <b>(Impact factor: 1.784)</b>
7.	<b>A. Naresh Kumar</b> and K. Murugan, 2011. Antimalarial and Antivectoral Activities of Traditionally Used Indigenous Medicinal Plants. Advances in Environmental Biology, 5(2): 407-412.
8	Kalimuthu Kovendan, Kadarkarai Murugan, <b>Arjunan Naresh Kumar</b> , Savariar Vincent & Jiang-Shiou Hwang, 2012. Bioefficacy of larvicidal and pupicidal properties of <i>Carica papaya</i> (Caricaceae) leaf extract and bacterial insecticide, spinosad, against chikungunya vector, <i>Aedes aegypti</i> (Diptera: Culicidae). Parasitol Res. 110 (2): 669–678. DOI 10.1007/s00436-011-2540-z. <b>(Impact factor: 2.149)</b>
9	<b>A. Naresh Kumar</b> , K. Murugan, P. Madhiyazhagan, K. Kovendan, K. Prasannakumar, S. Thangamani and Donald Barnard (2012). Mosquitocidal and Water Purification Properties of <i>Cynodon dactylon</i> , <i>Aloe vera</i> , <i>Hemidesmus indicus</i> and <i>Coleus amboinicus</i> . Parasitology Research. <a href="#">110 (4):1435-43</a> . DOI: 10.1007/s00436-011-2646-3. <b>(Impact factor: 2.149)</b>
10	Kolandhasamy Prabhu, Kadarkarai Murugan, <b>Arjunan Naresh Kumar</b> , Subramanian Bragadeeswaran (2011). Larvicidal and pupicidal activity of spinosad against the malarial vector <i>Anopheles stephensi</i> . Asian Pacific Journal of Tropical Medicine, 4 (8): 610-613. <b>(Impact factor: 0.352)</b>
11	<b>A. Naresh Kumar</b> , K. Murugan, P. Madhiyazhagan and K. Prabhu (2011). Spinosad and neem seed kernel extract as bio-controlling agents for malarial vector, <i>Anopheles</i>

	<i>stephensi</i> and non-biting midge, <i>Chironomus circumdatus</i> . Asian Pacific Journal of Tropical Medicine, 614-618. <b>(Impact factor: 0.352)</b>
12	<b>A. Naresh Kumar</b> , K. Murugan, C. Rejeeth, P. Madhiyazhagan and Donald R. Barnard (2011). Green Synthesis of Silver Nanoparticles for the Control of Mosquito Vectors of Malaria, Filariasis, and Dengue. Vector-Borne and Zoonotic Diseases. (DOI:10.1089/vbz.2011.066). <b>(Impact factor: 2.437)</b>
13	Kanagarajan Prasanna Kumar, Kadarkarai Murugan, Kalimuthu Kovendan, <b>Arjunan Naresh Kumar</b> , Jiang-Shiou Hwang, Donald R. Barnard (2012). Combined effect of seaweed ( <i>Sargassum wightii</i> ) and <i>Bacillus thuringiensis</i> var. <i>israelensis</i> on the coastal mosquito, <i>Anopheles sunaicus</i> , in Tamil Nadu, India. <i>Science Asia</i> 38: 141-146. <b>(Impact factor: 0.344)</b>
14	<b>A. Naresh Kumar</b> , K. Murugan, P. Madhiyazhagan (2013). Integration of botanicals and microbials for management of crop and human pests. Parasitol Res. DOI 10.1007/s00436-012-3139-8. <b>(Impact factor: 2.149)</b>
15	<b>A. Nareshkumar</b> , K. Murugan, I. Baruah, P. Madhiyazhagan, T. Nataraj (2012). Larvicidal potentiality, longevity and fecundity inhibitory activities of <i>Bacillus sphaericus</i> (Bs G3-IV) on vector mosquitoes, <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> . Journal of Entomological and Acarological Research. 44:e15. <b>(Impact factor: 0.326)</b>
16	K. Murugan, P. Madhiyazhagan, <b>A. Nareshkumar</b> , T. Nataraj, D. Dinesh, J.-S. Hwang, M. Nicoletti (2012). Mosquitocidal and water purification properties of <i>Ocimum sanctum</i> and <i>Phyllanthus emblica</i> . Journal of Entomological and Acarological Research. 44:e17. <b>(Impact factor: 0.326)</b> .
17	Pari Madhiyazhagan, Kadarkarai Murugan, <b>Arjunan Naresh kumar</b> and Thiyagarajan Nataraj (2012). Larvicidal, Pupicidal and Ovicidal activity of <i>Coccinia grandis</i> , against Malarial vector, <i>Anopheles stephensi</i> , Dengue vector, <i>Aedes aegypti</i> , Flarial vector, <i>Culex quinquefasciatus</i> . Asian Pacific Journal of Tropical Biomedicine. 1-7.
18	<b>A. Naresh kumar</b> , T. Jeyalalitha, K. Murugan, P. Madhiyazhagan (2012). Bioefficacy of plant-mediated gold nanoparticles and <i>Anthocepholus cadamba</i> on filarial vector, <i>Culex quinquefasciatus</i> (Insecta: Diptera: Culicidae). Parasitol Res. DOI 10.1007/s00436-012-3232-z. <b>(Impact factor: 2.149)</b>
19	Thangadurai Chitra, Kadarkarai Murugan, <b>A. Naresh Kumar</b> , P. Madhiyazhagan, Thiyagarajan Nataraj, Duraisamy Indumathi, Jiang-Shiou Hwang (2013). Laboratory and field efficacy of <i>Pedalium murex</i> and predatory copepod, <i>Mesocyclops longisetus</i> on rural malaria vector, <i>Anopheles culicifacies</i> . Asian Pacific Journal of Tropical

	Diseases. Vol: 3 Issue: 2 Pp: 111-118.
20	<b>A. Naresh kumar</b> , K. Murugan, K. Shobana and D. Abirami (2013). Isolation of <i>Bacillus sphaericus</i> screening larvicidal, fecundity and longevity effects on malaria vector <i>Anopheles stephensi</i> . Scientific Research & Essays. DOI 10.5897/SRE10.373
<b>S. No.</b>	<b>Book Chapters</b>
1.	K. Murugan, <b>A. Naresh Kumar</b> , K. Kovendan, K. Prasanna Kumar, Jiang-Shiou Hwang and Donald R. Barnard, 2011. Integration of Botanicals and Microbial Pesticides for the Control of Dengue Vector, <i>Aedes aegypti</i> (Insecta: Diptera: Culicidae). Perspectives in Animal Ecology and Reproduction, pp. Vol. 8. 35-82.
2.	<b>A. Naresh Kumar</b> , K. Murugan and K. Shobana (2010). Impact of Climate Change on the Malarial vector, <i>Anopheles stephensi</i> and control using <i>Cassia alata</i> . Proceedings of Impact of Climate change on Mosquito born diseases and its impact on public health. ISBN: 978-93-80043-93-7. Excel India Publishers, New Delhi. Pp. 106-111.
3.	P. Madhiyazhagan, K. Murugan, <b>A. Nareshkumar</b> , T. Nataraj, D. Amerasan, K. Kalimuthu and Jiang-Shiou Hwang (2013). Larvicidal Effect of Spinosad and Azadirachtin Against Dengue Vector, <i>Aedes aegypti</i> (Insecta : Diptera : Culicidae) and <i>Chironomus Kiiensis</i> (Chironomidae). Daya Publishing House. ISBN: 9788170357476
<b>S. No.</b>	<b>Full papers Published in Conference proceedings</b>
1.	Murugan. K, <b>Naresh kumar. A</b> , Aarthi. N, Kovendan. K and Vincent. S (2009). Sustainable Mosquito Management and Water Purification Using Botanicals in different aquatic Ecosystem. Proceedings from Wuhan University, Wuhan University Press, China, 283-296

### CONFERENCES/WORKSHOP/SEMINARS PARTICIPATED

<b>S. No.</b>	<b>International</b>
<b>1.</b>	<b>International Conference</b> on “Biodiversity of Insects: Challenging Issues in Management and Conservation” organized by Department of Zoology, Bharathiar University, Coimbatore 641 046, India, during 30 <sup>th</sup> January – 3 <sup>rd</sup> February, 2006.
<b>2.</b>	<b>International</b> of Global Warming on “Biodiversity of Insects: Management and Conservation” organized by Department of Zoology, Bharathiar University, Coimbatore-641 046, India, during 9 <sup>th</sup> to 12 <sup>th</sup> , February, 2009.
<b>3.</b>	<b>10<sup>th</sup> International Symposium</b> on “Vectors and Vector Borne Diseases” conducted

	by Goa University, Goa, India, during 4-6, November, 2009.
4.	<b>World Classical Tamil Conference</b> , Bharathiar University, Coimbatore, India, during 23 <sup>rd</sup> to 27 <sup>th</sup> June 2010.
5.	<b>The 2<sup>nd</sup> International Symposium</b> on Medicinal Plants. Organized by Ash-Shoubak University College, Al-Balqa' Applied University, Al Salt – 19117, Jordan, during 3-4 November, 2010.
6.	<b>International symposium</b> on Recent Advances in Ecology and Management of Vectors and Vector Borne Diseases. Organized by Defence Research & Development Establishment, Ministry of Defence, Gwalior – 474 002, India, during 1-3 Dec, 2010.
7.	<b>2<sup>nd</sup> International Congress</b> of Global Warming on “Biodiversity of Insects: Management and Conservation” organized by Department of Zoology, Bharathiar University, Coimbatore-641 046, India, during 24 to 26, August 2011.
8.	<b>International Symposium</b> on Environmental Risk Assessment 2011” organized by Department of Zoology, School of Life Sciences, Bharathiar University, Coimbatore, India during 17 to 19, October 2011.
	<b>National</b>
9.	<b>Participated</b> in the “National Integration Camp” organized by Sinik School, Udumalpet, India during 18 <sup>th</sup> Jan 2004.
10.	<b>State Level Seminar</b> on “Role of Student Community in Environment Management” organized by P.G. & Research Department of Zoology, Kongunadu Arts and Science College in Collaboration with Environmental Cell Division – WRO & Green Mother Trust, during March 6 <sup>th</sup> 2004.
11.	<b>National Seminar on</b> “AIDS/HIV Control and Awareness Strategies and Initiatives for Teachers, Community Leaders/Counselors and Researchers” organized by School of Biosciences Dr. G. R. Damodaran College of Science, Coimbatore, India, during July 15-16, 2005.
12.	<b>National Seminar</b> on “Genes, Environment and Cancer (GEC, 2007)”, organized by Department of Zoology, Bharathiar University, Coimbatore 641 046, India, during 10-11 January, 2007.
13.	<b>National Seminar</b> on “Mosquito Biodiversity and Challenges in the control of Mosquito-Borne Diseases” organized by School of Entomology & Centre for Natural Resources Management (SECNARM), P.G. & Research Department of Advanced Zoology and Biotechnology, Loyola College, Chennai 600 034 & National Biodiversity Authority, Government of India, Chennai, India, during February 19 & 20, 2007.

14.	<b>Career Guidance Programme</b> on “Life Skills” conducted by department of Zoology, Bharathiar University, Coimbatore 641 046, India, during 30-11-2007.
15.	<b>Seminar on</b> “Sustainable Aquaculture and Rural Development” organized by Department of Zoology, Bharathiar University, Coimbatore, India, during 28 <sup>th</sup> February, 2008.
16.	<b>Seminar on</b> “Wealth from the waste”, organized by Department of Environmental Sciences, School of Life Sciences, Bharathiar University, Coimbatore – 641 046, India, during 26 March, 2008.
17.	<b>National Level Seminar on</b> “Biodiversity of Natural shoals and its Conservation in Nilgiris” organized by Department of Advanced Zoology & Biotechnology, Emerald Heights College for Women, Udthagamandalam – 643 006, during 27 <sup>th</sup> and 28 <sup>th</sup> March 2008.
18.	<b>Participated</b> in the “Training Programme on Electrophoresis” (PAGE and AGE)” during 28 <sup>th</sup> and 30 <sup>th</sup> March, 2008 at Department of Zoology, Bharathiar University, Coimbatore -641 046.
19.	<b>AICTE TRAINING PROGRAMME</b> on GIS techniques for Environmental Governance, Urban Management and Rural Development conducted by BU-DRDO centre for Life Sciences, Bharathiar University, Coimbatore, India, during April 21 <sup>st</sup> to May 4 <sup>th</sup> 2008.
20.	<b>Seminar on</b> “Vetiver” organized by Department of Environmental Sciences, Bharathiar University, Coimbatore & District Herbal and Tree Growers’ Association, Coimbatore, India, during 19 June, 2008.
21.	<b>National Seminar</b> on “Recent Trends in Aquaculture practices – Towards Technological Empowerment of Aquaculture Farmers” organized by Department of Zoology, School of Life Sciences, Bharathiar University, Coimbatore, India, during 7 <sup>th</sup> and 8 <sup>th</sup> August, 2008.
22.	<b>National Seminar</b> on “Biodiversity – Status, Conservation and Management” organized by P.G. and Research Department of Botany, Kongunadu Arts and Science College, Coimbatore, India, during September 12 <sup>th</sup> & 13 <sup>th</sup> , 2008.
23.	<b>2<sup>nd</sup> Conference on</b> “Medical Arthropodology Climate change & Vector born diseases” Organized by Centre for Research in Medical Entomology, Indian Council of Medical Research, Madurai, Tamil Nadu, India in collaboration with Entomology Academy of India, during 15-16 December, 2008
24.	<b>National Seminar</b> on “Man and Microbes” organized by Department of Microbial biotechnology, Bharathiar University, Coimbatore, India, during 27 <sup>th</sup> January, 2009.
25.	<b>Workshop on</b> “Application of Statistical Tools for Data Analysis in Research”

	conducted by School of Commerce, Bharathiar University, Coimbatore, India, during 4 <sup>th</sup> to 6 <sup>th</sup> March 2009.
26.	<b>National Level Symposium</b> on “Bringing Revolution in Bioinformatics”, Motif’09, organized by Department of Bioinformatics, Bharathiar University, Coimbatore, India, on 17 <sup>th</sup> September 2009.
27.	<b>3<sup>rd</sup> Conference</b> of Medical Arthropodology” Organized by Centre for Research in Medical Entomology (Indian Council of Medical Research), Ministry of Health & Family Welfare, Govt. of India, Madurai, India during 18 <sup>th</sup> and 19 <sup>th</sup> December, 2009.
28.	<b>National conference</b> on Impact of Climate change on Biodiversity of Insects and Environment (CBI’ 10). Organized by Department of Zoology, Bharathiar University, Coimbatore-641 046, India, during 15 <sup>th</sup> and 16 <sup>th</sup> March, 2010.
29.	<b>Career Guidance and Placement Programme</b> on “Motivational Seminar on Life Skills” conducted by department of Zoology, Bharathiar University, Coimbatore 641 046, India, during 24 <sup>th</sup> and 25 <sup>th</sup> February, 2011.
30.	<b>National Level Seminar cum Workshop</b> on Computational Biology organized by the Bioinformatics centre, Department of Bioinformatics, Bharathiar University, Coimbatore, India on 10 <sup>th</sup> and 11 <sup>th</sup> March, 2011.
31.	<b>National seminar</b> on Radiation Technology in Health Care and its Safety organized by Department of Medical Physics, Bharathiar University, Coimbatore – 46, India during 16 <sup>th</sup> and 17 <sup>th</sup> March, 2011.
32.	<b>Regional Science Congress</b> on Science for shaping the future of India jointly organized by Indian Science Congress Association, Coimbatore Chapter and Kongunadu Arts and Science College, Coimbatore – 641 029, on December 15-16, 2012.
33.	<b>National Seminar</b> on New Frontiers in Biology organized by Post Graduate Department of Zoology at Jayaraj Annapackiam College for Women, Periyakulam, Tamil Nadu, India on 18 <sup>th</sup> and 19 <sup>th</sup> December 2012.

## PROJECTS UNDERTAKEN

### M.Sc

- Studies on the control of Mosquito *Culex quinquefasciatus* using plant extract of *Jatropha curcus* as biocides.

## **Ph.D.**

- A Geographic Information Systems (GIS) Model for Mapping Mosquito Population: Green Synthesis of Silver Nanoparticles along with Biopesticides for the Control of Mosquito Vectors

## **Research Associate**

- Development of Temporal Modeling for Forecasting and Prediction of Vector Borne Diseases Using Remote Sensing and GIS.

## **AWARDS AND FELLOWSHIPS**

- ❖ Defence Research and Development Organization Project Fellow under the project entitled, “Evaluation of Bacterial Larvicides, *Bacillus sphaericus* (DRL, Tezpur, Isolates) for the control of Mosquito vectors.
- ❖ Best presentation award in 2<sup>nd</sup> Conference on “Medical Arthropodology Climate change & Vector born diseases” Organized by Centre for Research in Medical Entomology, Indian Council of Medical Research, Madurai, Tamil Nadu, India in collaboration with Entomology Academy of India, during 15-16 December, 2008.
- ❖ Council of Scientific and Industrial Research (CSIR) Research Associateship for working individual research project entitled “Development of Temporal Modeling for Forecasting and Prediction of Vector Borne Diseases Using Remote Sensing and GIS”.

## **CONTACT ADDRESS**

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