



CURRICULUM VITAE

Chithravel VADIVALAGAN, Ph.D.,

Postdoctoral fellow

Department of Zoology

Bharathiar University

Coimbatore, India.

Email: marinedrug.9@gmail.com;

Mobile: +91 97914 87229

Specialization:

My field of interest includes Molecular Ecology, Evolutionary genetics of vector born diseases and their potential vectors control by using biosynthesized Nanoparticles. I am much interested in Genomics of pest, parasites and novel haplotype variations for adaptive radiation of vector born diseases.

Research and Teaching Excellence:

Guest faculty Department of Zoology, Bharathiar University, Coimbatore-641046 (July 2016 to April 2017)

Postdoctoral research: DNA Barcoding and molecular evolution of Mosquitoes species in and around Tamil Nadu, India" funded by SAARP Trust, Coimbatore, India (No. SAARP/ Research grant/0100/2013-16/Dt.16 August 2013)

Ph. D Thesis topic: Molecular identification of butterflies and host plant association using DNA barcoding with protein ligand interaction" funded by University Grant commission, New Delhi, India (No. F 14-2(SC)/2009 (SA III) Dated November 2009

Awards/ fellowship/Received

- University Grant Commission (UGC- RGNF) New Delhi, India. (2009 -2013)
- International Young Scientist award by ISZS-China. (2010)
- Young Scholar Award by Bharathiar University, Coimbatore, India. (2010)

Research Contributions

- **Editorial board:** Journal of Entomology and Applied Science Letters

Country visited

- Kunming, China
- Kuala Lumpur, Malaysia

Academic Credential

Bharathiar University, Coimbatore	Ph.D., Animal Biotechnology	2013
Bharathiar University, Coimbatore	M.Sc., Animal Biotechnology	2009
Bharathiar University, Coimbatore	Diploma in Biodiversity	2009
Nehru Memorial College, Bharathidasan University	Diploma in Bio-fertilizer	2007
Nehru Memorial College, Bharathidasan University	B.Sc., Zoology	2007

OVERALL CITATION INDICES

Cumulative Impact factors=**25.585**; Citation = **156**; h-index = **6**; i10 index= **4**

List of Publications

Publications of National/International Journals:

1. Giovanni Benelli and **Chithravel Vdivalagan**, et al. (2017) Bluetongue outbreaks: looking for effective control strategies against Culicoides vectors. Research in Veterinary Science, doi: 10.1016/j.rvsc.2017.05.023.
2. **Chithravel Vadivalagan**, et al. 2017. Exploring genetic variation in haplotypes of the filariasis vector *Culex quinquefasciatus* (Diptera: Culicidae) through DNA barcoding. *Acta Tropica*. 169. 43-50.
3. **Chithravel Vadivalagan**, et al. 2016. Genetic deviation in geographically close populations of the dengue vector *Aedes aegypti* (Diptera: Culicidae): influence of environmental barriers in South India. *Parasitology Research*. 115(3). 1149-1160.
4. Kadarkarai Murugan, **Chithravel Vadivalagan**, et al. 2016. DNA Barcoding and molecular evolution of selected mosquito species in Western Ghats, south India. *Parasitology Research*. 115(1) 107-121.

5. Pushparaj Karthika, **Chithravel Vadivalagan**, et al. 2017. Methyl linoleate as a feeding stimulant for the 28-spotted potato ladybird, *Henosepilachna vigintioctopunctata*? A molecular docking approach. *Physiological and Molecular Plant Pathology* (In Press)
6. Pushparaj Karthika, **Chithravel Vadivalagan**, et al. 2017. Contrasting genetic diversity and intra-population polymorphism of the invasive pest *Henosepilachna vigintioctopunctata* (Coleoptera, Coccinellidae): A DNA barcoding approach. *Journal of Asia-Pacific Entomology*. 20. 23–29.
7. Pushparaj Karthika, and **Chithravel Vadivalagan**, et al. 2016. DNA barcoding and evolutionary lineage of 15 insect pests of horticultural crops in South India. *Karbala International Journal of Modern Science*. DOI:10.1016/j.kijoms.2016.03.006.
8. Kadarkarai Murugan, and **Chithravel Vadivalagan**, et al. 2016. Mangrove Helps: Sonneratia alba-Synthesized Silver Nanoparticles Magnify Guppy Fish Predation Against *Aedes aegypti* Young Instars and Down-Regulate the Expression of Envelope (E) Gene in Dengue Virus (Serotype DEN-2). *Journal Cluster Sciences*. 1-25.
9. Kadarkarai Murugan, and **Chithravel Vadivalagan**, et al. 2016. Magnetic nanoparticles are highly toxic to chloroquine-resistant *Plasmodium falciparum*, dengue virus (DEN-2), and their mosquito vectors. *Parasitology Research*. 1-8.
10. Anila P. Ashokan and **Chithravel Vadivalagan** et al. 2016. Toxicity on Dengue Mosquito Vectors Through *Myristica fragrans*-Synthesized Zinc Oxide Nanorods, and Their Cytotoxic Effects on Liver Cancer Cells (HepG2) *Journal Cluster Sciences*. 27(5).1-22.
11. Kadarkarai Murugan, and **Chithravel Vadivalagan**, et al. 2016. Fabrication of nano-mosquitocides using chitosan from crab shells: Impact on nontarget organisms in the aquatic environment. *Ecotoxicology and Environmental Safety*. 132. 318-328
12. Kadarkarai Murugan, **Chithravel Vadivalagan**, et al. 2016. Carbon and silver nanoparticles in the fight against the filariasis vector *Culex quinquefasciatus*: genotoxicity and impact on behavioral traits of non-target aquatic organisms. *Parasitology Research*. 115(3). 1071-1083.
13. Anitha Jaganathan, and **Chithravel Vadivalagan**, et al. 2016. Earthworm-mediated synthesis of silver nanoparticles: A potent tool against hepatocellular carcinoma, *Plasmodium falciparum* parasites and malaria mosquitoes. *Parasitology International* 65. 276–284.
14. Vasu Sujitha, and **Chithravel Vadivalagan**, et al. 2015. Green-synthesized silver nanoparticles as a novel control tool against dengue virus (DEN-2) and its primary vector *Aedes aegypti*. *Parasitology Research*. 114(9). 3315-3325.
15. V. Nathiya, and **C. Vadivalagan**, et al. 2015. Predatory ability of mesocyclops aspericornis on the larvae of *Culex quinquefasciatus* under monocrotophos polluted condition. *Int. J. Modn. Res. Revs*. Volume 3, Issue 3, pp 630-634.
16. R. Udayasuriyan, and **C. Vadivalagan**, et al. 2015. Efficiency of different COI markers in DNA barcoding of freshwater prawn species. *Journal of Entomology and Zoology Studies*, 3 (3): 98-110.
17. G. Rajkumar, and **C. Vadivalagan**, et al. 2015. Molecular identification of shrimp species, *Penaeus semisulcatus*, *Metapenaeus dobsoni*, *Metapenaeus brevicornis*, *Fenneropenaeus indicus*, *Parapenaeopsis stylifera* and *Solenocera crassicornis* inhabiting in the coromandel coast (Tamil Nadu, India) using MT-COI gene. *International Journal of Fisheries and Aquatic Studies*, 2(4): 96-106.
18. **C. Vadivalagan***, et al. 2014. Molecular identification of Nymphalidae butterflies in Mukurthi National Park, India. *European Journal of Zoological Research*, 3 (2):66-75.
19. Elanchezhian. M and **Vadivalagan. C** et al., 2013. A diversity of insects in kallar horticulture farm, Western Ghats, south India. *International Journal of Recent Scientific Research*. Vol. 4, Issue, 4, pp.476 – 480.
20. Salahudeen M*, and **Vadivalagan C et al.** 2013. Studies on the Abundance and Distribution of Birds in Three Different Habitats of Karur District, South India. *Journal of Entomology and Zoology Studies*. Volume 1 Issue 3.

21. Pushparaj Karthika, **Chithravel Vadivalagan***, et al. 2012. DNA Barcoding of selected dragonfly species (Libellulidae and Aeshnidae) for species authentication with phylogenetic assessment. *European Journal of Experimental Biology*, 2 (6):2158-2165.
22. **Chithravel Vadivalagan***, et al. 2012. Molecular phylogeny of recurrent road killed butterflies in Nilgiri biosphere reserve, India, using CO1 gene marker. *African Journal of Biotechnology*. Vol. 11(79), pp. 14433-14439
23. **Vadivalagan, C.**, et al. 2012. Assessing reproductive behaviour of Lepidoptera victims on road killed in Coimbatore, (TN) India. *International Journal of Recent Scientific Research* Vol. 3, Issue, 5, pp.340 - 342.

Publications of National/ International Book Chapters

1. Pushparaj Karthika, **Chithravel Vadivalagan*** et al. 2017. Chapter: No. (In press) Study on the validation and efficacy of DNA barcodes in the identification of *Culex* species of medical importance. DNA BARCODING AND MOLECULAR PHYLOGENY. *Springer Publications*.
2. **C. Vadivalagan**, et al. 2010. Chapter 1: Study of organic farming through Earthworm Eco-technology in Sun flower and Onion Crop field in Thiruchirappalli District, Tamil Nadu. RECENT TRENDS IN BIOTECHNOLOGY – Lingaraj Patro (Sanali publications)
3. V. Maruthappan, **C. Vadivalagan**, et al. 2010. Chapter 8: Vermicomposting of Teak wood Tree leaves litter by Using of Earth worms *Eudrilus eugeniae* and *lampito Mauritii*. BIOTECHNOLOGY IT'S GROWING DIMENSIONS – Lingaraj Patro (Sanali publications)

GenBank: Accession Numbers:

More than **150 GenBank** Accession with respective COI and tRNAL Genes: Kindly refer the following link: <http://www.ncbi.nlm.nih.gov/nucore/?term=vadivalagan>

List of Training Undergone

List of Workshop and Trainings

1. UGC, DBT and DST sponsored national seminar cum workshop on microbial phylogenetics and proteomics. Feb 12-14, 2014. Organized by department of biotechnology, Alagappa university, karaikudi, India.
2. National workshop on Fish culture using Bio-encapsulated life feed towards technological improvement of fisherman of self-help group during Aug 18-20, 2010 at Bharathiar University, Coimbatore, India.
3. Job training programme of clinical biochemistry, microbiology and clinical pathology. June 11-20 2008. Organized by Microbiological laboratory, Coimbatore- 641002.
4. Environmental awareness training programme. Feb 05 – 07, 2007. Organized by Anglade institute of natural history, Shembaganur, Kodaikanal, India.

List of Conferences

1. 2nd International conference on environment and ecology during 9th March 2016 Organised by Department of environment science, Bharathiar University, Coimbatore-TN, India.
2. International conference on biodiversity and biotechnology (ICBB - 2016) Organised by Department of Biotechnology and Genetic Engineering on February 25 – 27 at Bharathidasan University Tiruchirappalli-620 024. India.
3. National conference on Nilgiri Biosphere Reserve silver jubilee celebration during August 2013. Govt. Arts college, Ooty, India.
4. National conference on Impact of climate change on biodiversity of insect and environment (CBI'10). March 15-16, 2010. Organized by Department of Zoology, Coimbatore, India.
5. International conference on biodiversity of insect: challenging issues in management and conservation. Jan 30th –Feb 3rd 2006. Organized by Department of Zoology, Coimbatore, India.

List of Symposiums

1. International symposium on integrative zoology during the Dec 4-6 2010 at china. Organized by International Society of Zoological Sciences, Kunming, China.

2. International Symposium on Environmental Risk Assessment 2011 (ISERA 2011) 17-10-2011 - 19-10-2011, At Bharathiar University, Coimbatore, India.
3. 3rd Asian Lepidoptera conservation symposium and training programme. Oct-25 -29th 2010. Organized by Department of Zoology, Coimbatore, India
4. National symposium on herbal drug research. Sep 25- 26, 2008. Organized by Department of botany, Coimbatore, India.

List of Congress

1. 3rd International congress on global warming on biodiversity of insets: management and conservation strategies (GW-BIMC, 2013) organised by Department of Zoology, Bharathiar University, Coimbatore 46, India.
2. International Congress of 'Global Warming on Biodiversity of Insects: Management & Conservation. Feb- 9th – 12th 2009. Organized by Department of Zoology, Bharathiar University, Coimbatore, India.

List of seminars

1. National seminar on current scenario in botanical research Dec-13th 2013. Organized by Department of botany, Bharathiar University Coimbatore, India.
2. National seminar on forest bio-resource management. Dec- 19th -20th 2011. Organized by Department of life sciences, PSGR Krishnammal College for women, Coimbatore, India.
3. Seminar on wealth from waste. March 26, 2008. Organized by Department of Environmental, Bharathiar University Coimbatore, India.
4. National seminar on recent trends in aquaculture practices- towards technological empowerment of aquaculture farmers. Aug – 7th – 8th 2008. Organized by Department of Zoology, Bharathiar University, Coimbatore, India.
5. Seminar on Sustainable aquaculture and rural development (BUAQUA 2008). Feb 28th 2008. Organized by Department of Zoology, Bharathiar University, Coimbatore, India.
6. Seminar on total pure water solution at Coimbatore. Nov 26th 2007. Organized by Milipore India Pvt. ltd. and Bharathiar University, Coimbatore, India.
7. AICTE sponsored one day seminar on Save the Earth. Aug. 11th 2004. Organized by Srimad Andavan arts and Science College. Tiruchirappalli, India.

Declaration

I hereby declare that all the information mentioned above is true to the best of my knowledge.

Place: Coimbatore
Date: 14.09.2017



(C.VADIVALAGAN)