

## CURRICULUM VITAE

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**Date of birth: 27.03.1972**

### ACADEMIC DETAILS

2010- Doctorate of Philosophy in Zoology/Environmental Sciences (Mananmaniam Sundaranar University).

2005 – Master of Philosophy, Bharathidasan University, Trichy

2001 - Master of Science in Zoology, The Madura College Affiliated to Madurai Kamaraj University, India.

1997 - Bachelor of Science in Zoology, The American college, Affiliated to Madurai Kamaraj University, India.

### SPECIALIZATION AND AREAS OF INTEREST

Research interests on Environmental Engineering, Environmental science, Stream Ecology, Water Pollution, Climate change, Entomology, and Biodiversity, Systematics and Ecology of Aquatic Insects, especially Ephemeroptera, Plecoptera, Trichoptera, Research projects were made on **Stream Ecology and Biomonitoring of aquatic systems through benthic macroinvertebrates.**

### Described the New species of Ephemeroptera:

During the course of work, the following new species of **Ephemeroptera** were recorded from the study sites and the same was published in an international journal **Zootaxa**. (impact factor 1.09)

1. *Epeorus petersi*
2. *Klugephlebia kodai*
3. *Nigrobaetis klugei*
4. *Sparsorythus sivaramakrishnani*
5. *Sparsorythus srokai*
6. *Caenis americanii*

7. *Clypeocaenis malzacheri*

8. *Dudgeodes sartori*

## Publications

1. Srinivasan.P , **Sivaruban.T** Barathy.S & Isack.R (2021).New record of *Caenis nigropuctatula* Malzacher, 2015 (Ephemeroptera: Caenidae) from Southern India, *Aquat Res* 4(3), 299-303, ISSN 1175-5334 (online edition), <https://doi.org/10.11646/zootaxa.4990.3.8>
2. **Sivaruban .T** , Barathy.S, Srinivasan.P, and Isack.R . (2021).A new species of *Sparsorythus* Sroka & Soldán, 2008 (Ephemeroptera: Tricorythidae) from Eastern Ghats of Southern India , *Zootaxa* 4915 (2): 237–245, ISSN 1175-5334 (online edition), <https://www.mapress.com/j/zt/>
3. Srinivasan.P , **Sivaruban.T** Barathy.S & Isack.R (2021).A new species of *Sparsorythus* Sroka & Soldán, 2008 (Ephemeroptera: Tricorythidae) from Tamil Nadu, India, *Zootaxa* 5061 (1): 185–191, ISSN 1175-5334 (online edition), <https://www.mapress.com/j/zt/>
4. . **Sivaruban .T** , Barathy.S and Srinivasan.P . (2021).Diversity and Distribution of Trichoptera in Three Streams of Eastern Ghats, India, *Indian Journal of Ecology* (2021) 48(3): 772-775
5. Srinivasan. .P , **Sivaruban.T** Barathy.S , & Isack.R (2021). A new species of *Dudgeodes Sartori*, 2008 (Ephemeroptera: Teloganodidae) from Megamalai hills of southern Western Ghats, India, *Zootaxa* 4990 (3): 571–5 ISSN 1175-5334 (online edition), <http://zoobank.org/urn:lsid:zoobank.org:pub:7A264F32-8407-42FC-BFE2-09268C0F259D>
6. Srinivasan.P , **Sivaruban.T** Barathy.S , Malzacher.P & Isack.R (2021). A new charismatic *Caenis* Stephens, 1835 (Ephemeroptera: Caenidae) from Southern India, *Zootaxa* 4926 (1): 105–116.
7. Barathy.S, **Sivaruban.T**, Srinivasan.P, Isack.R and Rosy.M. (2021). Diversity and community structure of Ephemeroptera in freshwater stream of Megamalai hills, Tamil Nadu, India, *ENTOMON* 46(4): 279-284, <https://doi.org/10.33307/entomon.v46i4.638>

8. Barathy.S, **Sivaruban.T** and Srinivasan.P (2020). Distribution of mayflies in thirty streams of Western Ghats, Southern India, *J. Insect Biodiversity* 018 (2): 050–062, ISSN 2538-1318 (print edition), <http://zoobank.org/urn:lsid:zoobank.org:pub:FB624F11-8C33-41DB-A983-2A18957D3EDF>
9. **Sivaruban .T** , Barathy.S, Srinivasan.P and Isack. R (2020). Feeding Patterns and Strategies of Ephemeroptera, Plecoptera and Trichoptera in Relation to Seasonality, Landscape Elements and Mesohabitats, *Acta Aquatica Turcica*, 16(4), 558-570, E-ISSN: 2651-5474, <https://doi.org/10.22392/actaquatr.744336>
10. Barathy.S, **Sivaruban.T**, Arunachalam .M and Srinivasan.P (2020). Community structure of mayflies (Insecta: Ephemeroptera) in tropical streams of Western Ghats of Southern India, *Aquatic Res*, 4(1), 21-37, E-ISSN 2618-6365, <https://doi.org/10.3153/AR21003>
11. **Sivaruban .T** , Barathy.S, Srinivasan.P, Isack. R and Rosy.M (2020). Impact of ecological attributes and feeding categorization of Ephemeroptera, Plecoptera and Trichoptera (EPT) insects in Kiliyur falls of Eastern Ghats, India, *ENTOMON* 45(3): 171-180,<https://doi.org.3307/entomon.v45v.3.548>.
12. **Sivaruban .T** , Barathy.S, Srinivasan.P, Isack.R and Rosy.M (2020). Temporal variation of mayfly community (Ephemeroptera) in response to ecological attributes in Gadana river, Tamilnadu, India, *ENTOMON* 45(2): 115-122, <https://doi.org/10.33307/entomon.v45i2.519>
13. Barathy.S , Vimali.M , **Sivaruban.T** and Srinivasan.P (2020). Leaf Litter Degradation by Microbes and Macroinvertebrates in I Mid Reaches Stream of the Eastern Ghats, *Indian Journal of Ecology* 47(3): 881-883.
14. **Sivaruban .T** , Barathy.S, Srinivasan.P and Isack.R. (2020). Diversity and Distribution of Odonates in Alagar Hills of Southern India, *Indian Journal of Ecology*, 47(3): 869-871.
15. Barathy.S, **Sivaruban.T** and Srinivasan. P (2020) Taxonomic Keys of Mayflies in the Palni and Cardamom Hills of Western Ghats, Southern India, *Recent Research Advances in Biology* Vol. 5, ISBN: 978-93-90516-94-0, DOI: 10.9734/bpi/Arab/v5/6233D
16. Srinivasan Pandiarajan, **Sivaruban Thambiratnam**, IsackRajasekaran 1and Barathy Sivaruban(2019). Bio-monitoring and Detection of Water Quality using Ephemeroptera, Plecoptera and Trichoptera (EPT) Complex in Karanthamalai Stream of Eastern Ghats,*Indian Journal of Ecology* 46(4)
17. **Sivaruban Thambiratnam**, Srinivasan Pandiarajan, IsackRajasekaran, Barathy Sivaruban (2019). Study on diversity and molecular systematics of *Stenopsyche kodaikanelensis*(Insecta: Trichoptera) and Phylogenetic lineage with Trichoptera and Lepidoptera in Kuranganistream, Science Arena Publications *Specialty Journal of Biological Sciences*, Vol, 5 (4): 33-39

18. Barathy,S,**Sivaruban.T**,Srinivasan.P, BernathRosi.M and Isack.R(2019). Evaluation of heavy metal toxicicity in water using the fishes of Vaigai River,*International Research Journal of Biological Sciences* Vol. 8(11),20-21.
19. **Sivaruban.T**and Barathy. S (2016) Indoor air pollution due domestic cooking fuels in Madurai, *South Indian Journal Of Biological Sciences*2016; 2(2); 231-235.
20. SathyamoorthyK., **Sivaruban T** and Barathy S. (2016) Assessment of heavy metal pollution and contaminants in the cattle meat,*Jr. of Industrial Pollution Control* 32(1) pp 350-355.
21. Rajalakshmi P., Barathy S and **SivarubanT.**(2015). Contamination of heavy metals in tannery effluent and soil, *Uttar Pradesh Journal of Zoology*, 35(3):207-211.
22. **Sivaruban,T.**, Barathy, S Sivakumar,SGoel,MDas,AiKumar,Rand MaranS, (2014). Microbial Removal of High Concentration Heavy Metal in Tannery.*Research Journal of Pharmaceutical, Biological and Chemical Sciences*. Pgeno217-224
23. **Sivaruban, T., Barathy,S.,**Arunachalam,M.,Venkataraman,K and Sivaramakrishnan,K.G.(2013). A new species of Heptageniidae (Ephemeroptera), *Epeoruspetersi* from Kumbakkarai hill stream of the Western Ghats, Southern India. *Zootaxa*, 3731 (3): 391-394.
24. Selvakumar, C., Rahul, R Nair., Sivaramakrishnan, K. G., Ganesh, D., Janarthan, S., Arunachalam, M and **Sivaruban, T.** (2012). Influence of certain force on evolution of synonymous codon usage bias in certain species of three basal orders of aquatic insects.*Mitochondrial DNA* 23(6): 447 – 460.
25. JeyakumaranThambi, Raja, M., Arunachalam, M and **Sivaruban, T.** (2013). Application of Rapid Bioassessment in selected streams of the The Western Ghats using Benthic Macroinvertebrates. *International Journal of Environmental Biology*
26. **Sivaruban, T., Barathy,S** and Manikandan,M.(2012). Environmental monitoring and pollution assessment using stream inhabiting Insects(EPT) *Proceeding of the international Conference on Nanomaterials and Applications*. University sponsored by DST-CURIE, NEWDELHI
27. **Barathy, S and Sivaruban, T.**(2012). A detail study on drinking water quality and dental fluorosis in Melur, *Uttar Pradesh journal of zoology*.32(1):91-99.
28. **Sivaruban,T., Barathy, S.,**Venkataraman,K and Arunachalam,M. (2010). Life cycle studies of Heptageniidae (Insecta: Ephemeroptera) in Kumbbakarai Stream of Western Ghats, Tamil Nadu, India.*Journal of Threatened Taxa* 2(10):123-1226.
29. **Barathy, S.,Sivaruban, T** and Arunachalam,M. (2009). Effect of phenolic compound drugs on certain metabolites of liver in *Oreochromismossambicus*. *Uttar Pradesh Journal of zoology*.29(1):17-21.

### **Paper presentation**

- **Sivaruban.T**, Barathy.S, Raghuram.H, Venkatesh.B and Karuthapandi.S (2016). Antioxidant properties of *Spirulina platensis* and *S. maxima*, International conference on food and Science, Poster presentation in sponsored by Department Biotechnology (DBT) and Indian Council of Medical Research (ICMR),31 August-1 September
- Raghuram.H,**Sivaruban.T**, and Velladurai.P (2016). Selenium rich foods and their role in immune system- a review, Poster presentation in International conference on food and Science, sponsored by Department Biotechnology (DBT) and Indian Council of Medical Research (ICMR),31 August-1 September
- **Sivaruban.T**, Barathy.S and Alex Jacob.S .(2015). Environmental pollution assessment using stream inhabiting insects (EPT complex). National conference on Intellectual property rights in Biodiversity and Biotechnology (IPRBB-2015)
- **Sivaruban.T**. (2014). Alternative Energy from Biowastes, Oral presentation in V.O. Chidambaram college, thoothukudi,State level seminar on Renewable Energies and their Utilization.
- Vijayakumar, S., **Sivaruban, T.and Barathy. S.** (2013).Water quality in bore well sources of Virudhunagar District, Tamilnadu”. Poster presentation in Pope’s college. (UGC sponsored national seminar).
- Sugapriya, P., HamruthaSaratha, A., Silas Ebenezar and **Sivaruban, T.** (2013).” Environmental assessment, Biodiversity and Trophical relationships of Macroinvertebrates at Karanthamalai Southern Eastern Ghats. Poster presentation in MKU.
- **Sivaruban, Tand Barathy, S.** (2012). The role of aquatic Invertebrate Fauna and Microbial Fauna in the processing of Leaf litter in Deciduous forest streams(MSW) at Vellakal dump site Madurai.” Poster presentation in MKU.
- **Sivaruban,Tand Barathy, S.**(2011).“Environmental relationship and Diversity of Ephemeroptera, Plecoptera and Trichoptera (EPT) complex in Sirumalai Hill stream, South India.” Poster presented in MKU.
- **Sivaruban, T** and Barathy,S. (2006). Indoor air pollution due to domestic cooking fuels at Madurai city. GovindammalAditanar College for Women. National seminar on *Ecoinformatics*.
- **Sivaruban,T** and Barathy, S. (2007). Ephemeroptera, Plecopteraand Trichoptera complex diversity and Ecology of Karanthamalai hills, Eastern Ghats at Sri KGS Arts College, Srivaikundam.*TNSCT*, Chennai and *NCSTC*,New Delhi.

## Other Experiences

2016 Attend a National workshop on 30<sup>th</sup> and 31st March 2016 in “DNA Barcoding: Hands-on practice for Beginner” organized by the Molecular Biodiversity Research Division of this college in collaboration with PulHert Centre for DNA Barcoding and Biodiversity Studies, Dr.BabashebAmbekarMarathawada University, Aurangabad, Maharashtra.

2015- Attend Nation conference on “Community Microbial Consortia and the human holobiont- Implications of Yet – UnculturableMicroorganiam in systemic Health, Disease and Personalized Medicine” on 7<sup>th</sup> and 8<sup>th</sup> December 2015.

2003- 2010- Served as Lecturer in The Madura College, Post Graduate Zoology Department Madurai, Tamil Nadu, India.

2010- Till- Serve as Lecturer in The American College Under Graduate & Post Graduate Zoology Department, Madurai, Tamil Nadu, India.

2005 – Till - Resource person and Guide of PRIST University Collaboration Programme, Thanjavur, Tamil Nadu, India.

2007- Till - Guide for Periyar University, Salem, Tamil Nadu, India.

2008- Till - Guide for Vinayaga Missions University Salem Thanjavur, Tamil Nadu, India.

## M.Phil Students guided

S.No.	Year	Name of Candidate	Title of Dissertation
1.	2007	P.Anbaras	Ephemeroptera, Plecoptera&Trichoptera assemblages in mountain stream of Suruli falls.
2.	2007	S.Mary Dharathy	Indoor air pollution due to domestic cooking fuels at Madurai.
3.	2007	T.Selvaraj	A survey on ground water quality and dental fluorosis in Melur Taluk, Madurai.
4.	2007	P.PeriyaSamy	Analysis of Ephemeroptera, Plecoptera&Trichoptera complex diversity and Ecology in Karanthemalai hill streams of South India.
5.	2007	A. Parvathavarthini	Leaf litter associated aquatic insects and microbial colonization of Karanthemalai streams, South India
6.	2007	M.Kannan	Diversity and Ecology of Ephemeroptera, Plecoptera&Trichoptera complex in streams of Courtallam.

7	2009	Sr.Carmel Mary	Leaf litter associated with microbial colonization and entomofaunal assemblages in stream of sirumalai,Eastern Ghats.
8	2009	Ms.Rajanipriya	Biodegradation of Phenolic compounds by soil microorganism.
9.	2009	Mrs.C.Jeyapakkiam	Ephemeroptera,Plecoptera and Trichoptera in two streams of Karanthamalai hill,Eastern Ghats.
10	2009	H.Mangalam	Isolation and identification of efficient probiotic strain and its antagonistic effect against pathogenic microorganisms.
11	2009	N. Chellapriya	Evaluating antiviral and antioxidant profile of spirulina.
12	2009	K. Mathangi	Macroinvertebrate assemblages in Courtallum stream and environmental relationships.
13	2010	S. S. AlarmeluDevashena	Studies on acute toxicity of metals to the fish viz, Catlacatla, Labeorohita and Cirrhinamrigala.
14.	2010	A. SherlinAnbarasi	Studies on neem cake as source of nitrogen its effect on soil, microbes and as an inhibitor of pesticides degradation.
15	2010	Arul jothi	Influence of honey on dermal wound healing in rats.
16	2011	B. Vinothkumar	Study on amino acid producing bacteria through microbial fermentation using different agricultural wastes.
17	2012	R.Venkateshwaran (M.Tech- Environmental Science) PRIST Univrrsity	Environmental assessment and biodegradation of hazardous wastes management by bio remediation process.
18	2012	K. Rengasamy (M.Tech) Environmental Science in <b>PRIST University.</b>	An Evaluation of Ecology and Social aspects of motor way in Madurai, Tamil nadu.
19	2012	S. Sivakumar (M.Tech) Environmental Eng. in in <b>PRIST University.</b>	Role of microorganism in remediation of heavy metals in the wastes of Tanneries.
20	2013	S. R. Vijayakumar (M.Tech) Environmental Eng. in <b>PRIST University.</b>	Water quality problems in bore well sources of Virudhunagar Panchayat Union.

21	2013	S. Pandiyarajan (M.Tech ) Environmental Eng. in <b>PRIST University</b> .	Techno economical analysis of municipal solid waste at Vellakal Madurai.
22	2013	V. Jeyakumar	Untreated municipal sewage water discharge in Madurai and investigation of metal contaminations.
23	2013	S. Irwin jeyakumar	Determination of heavy metal residues in the milk of cattle.

#### Ph.D students

S.No	Name	Title
1	Srinivasan. P	
2	Isaic .R	
3	Bernothe Rosi.M	

(Dr.Sivaruban Thambiratnam)

#### REFERENCES

1. Dr. K.A.Subramanian,  
Scientist- C,  
Zoological Survey of India,  
Government of India,  
Chennai.  
Tamil Nadu,  
South India  
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2. Dr. K. G. Sivaramakrishnan,  
Emeritus Scientist,  
Madras University,  
Chennai,  
Tamil Nadu,  
South India.



3. Dr. Robert W. Sites,  
Professor,  
Enns Entomology Museum,  
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