

CURRICULUM VITAE

Name : **Dr.P. Senthilkumaar**
Date of Birth : 26.01.1964
Qualification : M.Sc., in Zoology (1986) - University of Madras
Ph.D., in Zoology (1991) - University of Madras

ORIENTATION COURSES ATTENDED

1. Participated in the Orientation Course held from 16.08.2000 to 12.09.2000 organized by ACADEMIC STAFF COLLEGE, University of Madras.

REFRESHER COURSES ATTENDED

1. Participated in the Refresher Course in Life Science held from 08.02.2006 to 28.02.2006 organized by UGC – ACADEMIC STAFF COLLEGE, University of Madras.
2. Participated in the Refresher Course in Bio-Technology (Multidisciplinary subjects – Zoology) held from 16.11.2007 to 06.12.2007 organized by UGC – ACADEMIC STAFF COLLEGE, University of Madras.

CONFERENCES / SEMINARS / WORKSHOPS PARTICIPATED

1. National Symposium on Environmental Biology held in the Research Department of Zoology, Sr. Xavier's College, Palayankottai during 2nd to 4th April, 1987.
2. National Seminar of Aquatic Environment and Organisms held in the Post-Graduate and Research Department of Zoology, Chikkaiah Naicker College, Erode during 19th to 21st October, 1989.
3. Participated in the 7 day True Realization Programme, organized by True Realization Centre, Malaysia at Chennai during April, 2007.
4. Participated in the Train the Trainers Programme (TTT) organized by University of Madras and Confederation of Indian Industry (CII), 20-22 August 2007 at Tata Consultancy Services, Chennai.
5. Participated in One-day Refresher Workshop organized by Academic Staff College, University of Madras and CII – Industry Consortium Knowledge Partnership for Employability, Chennai on 8th October 2007.

6. International Seminar on Mahakavi C. Subramaniya Bharathiyar and His 125th Birth Celebrations organized by the Tamil Chair, Dept. Indian languages, Faculty of Arts, Banaras Hindu University, Varanasi-221005, during 12th to 14th November 2007.
7. One Day Symposium on Microbial Biodiversity & Bio-Technology organized by P.G. Department of Microbiology, Sir Theagaraya College, Chennai on 25th January, 2008.
8. National Conference on Current Trends on Medicinal Plants Research and Herbal Technology (NCMPRHT) organized by the Post-Graduate and Research Department of Botany, Pachaiyappa's College, Chennai on 7th and 8th March, 2008.
9. National Seminar Pasumpon Muthuramalinga Devar Centenary Celebration on 27th and 28th September 2008, at Marina Campus, University of Madras.
10. National Seminar on Environmental Toxicology (ENTOX-'09) held on 26th and 27th February, 2009 at St. Xavier's College, Palayankottai.
11. CME on Stem Cells, Regeneration Medicine in Orthopedic Application organized by Dept. of Paramedical Sciences at Ramachandra University, Chennai, Tamil Nadu, on 23rd January 2010.
12. One day seminar on "Darwin's Bicentenary Birth Anniversary celebrations", organized by PG and Research department of Zoology, Pachaiyappa's College and University of Madras, Chennai on 28th January 2010.
13. International Conference on Climate Change and Bioresource (ICCCB -2010) held at Department of Biotechnology, Bharathidasan University during 9th to 12th February, 2010.
14. International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation Sustainable Utilization and Conservation (ICMPHD 2010) organized by the Post-Graduate and Research Department of Botany, Pachaiyappa's College, Chennai during 4th to 6th March, 2010.
15. International Conference on Global Environment and its Sustainability: Implication and Strategies organized by Indian Society for Education and Environment (ISEE) at RKM Vivekananda College, Chennai on 7th November, 2010.

16. International Conference on Challenging and Emerging Dimensions in Medicinal/Herbal Plants and their Products; A Global Perspective held at Chennai Trade Centre during 26th to 28th November, 2010.
17. National Conference on Conservation of Biodiversity for the Holistic Development organized by Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai – 34 on 3rd and 4th December, 2010.
18. 98th Indian Science Congress held at SRM University from 3rd to 7th January, 2011.
19. National Conference on “Emerging trends in Biological Research” (NCEBR’11) organized by Department of Zoology, University of Madras on 21st and 22nd February 2011.
20. National Conference on Advances in Environmental Research: An interdisciplinary approach (AERIA’11) organized by Department of Zoology, Annamalai University, Annamalainagar on 11th and 12th March 2011.
21. Participated in the UGC-SAP sponsored workshop on “UGC guidelines for Discontinuation of Dissection and Animal Experimentation in Zoology/Life Sciences in a Phased Manner” on 9 and 10 March, 2012.
22. International Conference on ‘Science and Technology for Clean and Green Environment’ organized by Zoology Wing, Annamalai University, Annamalainagar on 27th and 28th July, 2012.
23. National level seminar on “Role of College Teachers in Enhancing Quality in Higher Education” organized by University of Madras on 24th August 2012.
24. National Conference on Aquatic Animal Health and Management – 2012 (NCAAHM-2012) organized by Centre of Advanced Study in Marine Biology, Parangipettai, Annamalai University, on 14th and 15th September, 2012.
25. 23rd All India Congress of Zoology and National Conference on Conservation and Management of Faunal Resources for Sustainability (CMFRS-2012) organized by Department of Advanced Zoology and Biotechnology, Guru Nanak College, Chennai and Zoological Society of India, Bodh Gaya during 3rd to 5th October, 2012.
26. National Conference on Perspectives in Ethology organized by Stella Maris College, Chennai, Tamilnadu on 30th November and 1st December, 2012.

27. National Conference on “Relevance of Conservation and Sustainable Utilization of Bioresources organized by PG and Research Department of Zoology, Auxilium College, Vellore, Tamil Nadu, India on 13th and 14th December, 2012.
28. 2nd Biennial National Conference of Indian Academy of Science and Nature (IASN) held at Agra on 9th March, 2013.
29. National Seminar on Biodiversity Informatics organized by the Centre for Bioinformatics, Department of Bioinformatics, Bharathiar University, Coimbatore on 30th August, 2013.
30. National conference on Environmental Issues and Challenges – Vision 2020 (EnVISION 2020) organized by Department of Zoology, Annamalai University, Annamalai Nagar on 27th and 28th September, 2013.
31. 14th INDO-US Flow Cytometry Workshop organized by Sri Ramachandra University, Porur, Chennai on 28th, 29th and 30th October, 2013.

LIST OF RESEARCH PAPERS PUBLISHED

1. Biochemical basis for the differentiation of the two non poisonous snakes, *Eryx conicus* Schneider and *Eryx johnii* Russell (Family: Boidae) *Current Science.*, **69(3)**: 258-262, 1995.
2. Impact of heavy metal copper on the neurosecretory cells in the freshwater field crab, *Spiralothelphusa hydrodroma*. *Research Journal of Agriculture and Biological Sciences.*, **3(6)**: 584-589, 2007.
3. Impact of chloropyrifos on the neurosecretory cells in the freshwater field crab, *Spiralothelphusa hydrodroma*. *Research Journal of Agriculture and Biological Sciences.*, **3(6)**: 625-630, 2007.
4. Effect of chloropyrifos on the nutritive value in the freshwater field crab, *Spiralothelphusa hydrodroma*. *Research Journal of Agriculture and Biological Sciences.*, **3(6)**: 760-766, 2007.
5. Effect of heavy metal copper on the nutritive value in the freshwater field crab, *Spiralothelphusa hydrodroma*. *Research Journal of Agriculture and Biological Sciences.*, **3(6)**: 775-781, 2007.
6. Effect of heavy metal zinc on the neurosecretory cells of a freshwater field crab, *Spiralothelphusa hydrodroma*. *Journal of Applied Sciences Research.*, **3(11)**: 1609-1614, 2007.

7. Influence of chlorpyrifos on the neurosecretory cells in a fiddler crab *Uca triangularis*. *Journal of Natural science and Technology – Life Sciences and Bioinformatics.*, **1**: 90-95, 2009.
8. Effect of lead on the expression of nutritional content in edible lobster, *Thenus orientalis* (Lund, 1793). *Indian Journal of Science and Technology.*, **2(10)**: 17-22, 2009.
9. Hematological studies in Leptospirosis affected patients. *Journal of Natural Science and Technology –Life Sciences and Bioinformatics.*, **2**: 117-120, 2009.
10. Evolutionary gene expression of Lactate dehydrogenase in water snakes, *Cerberus rhynchops* and *Xenochrophis piscator*. *Indian Journal of Science and Technology.*, **2(422-4244)**:, 2010.
11. Isolation of human pathogenic bacteria in two edible fishes, *Priacanthus hamrur* and *Megalaspis cordyla* at Royapuram waters of Chennai, India. *Indian Journal of Science and Technology.*, **4(5)**: 539-541, 2011.
12. Acute toxicity of some agricultural fertilizers to fingerlings of *Catla catla*. *Indian Journal of Science and Technology.*, **4(7)**: 770-772, 2011.
13. Toxic effect of Endosulfan on the fingerlings of Indian major carp, *Catla catla*. *Journal of Natural science and Technology –Life Sciences and Bioinformatics.*, **3**: 250-254, 2011.
14. Independent and successive effect of two environmental stressors on the nutritional content of *Labeo rohita*. *Indian J. Innovations Dev.*, **1(6)**: 482-488, 2012.
15. Independent toxic effects of metallic compounds on Indian major carps. *Indian Journal of Science and Technology.*, **5(8)**: 3142-3149, 2012.
16. Seed potential of *Panaeus indicus* for aquaculture in Tamilnadu. Proceedings of National Conference on Aquatic Animal Health and Management-2012 (NCAAHM-2012) ISBN: 978-93-5087-377-0.
17. Studies on the distribution of heavy metal concentration in River Adyar, Chennai, Tamil Nadu. *European Journal of Experimental Biology.*, **2(6)**: 2192-2196, 2012.
18. Haematological studies in malaria affected patients in North Chennai, Tamil Nadu. *European Journal of Experimental Biology.*, **3(1)**: 199-205, 2013.

19. Haematological studies of lymphatic filariae, *Wuchereria bancrofti* affected patients in Arakkonam area, Tamil Nadu, India. *European Journal of Experimental Biology.*, **3(2)**: 194-200, 2013
20. Total protein and lipid content in edible tissues of fishes from Kasimodu fish landing centre, Chennai, Tamilnadu. *European Journal of Experimental Biology.*, **3(5)**: 252-257, 2013

LIST OF RESEARCH ARTICLES

1. Epoch of Kapok. The Permaculture Edge, Issue: 13, pp 10-11, 1994.
2. Vivasaignalin Nanban - Manpuzhu; Tamildaily *Dinamani* – *Velanmani*, 15.08.1995.

LIST OF ABSTRACTS PUBLISHED

1. LDH profile of *Kathala axillaris* (Cuvier) Sciaenidae - Pisces.
2. Biochemical basis for the differentiation of *Nibeia maculata* (Schneider) and-*Protonibeia diacanthus* (Lacepede), Sciaenidae - Pisces.
3. Biochemical basis for the differentiation of *Eleutheronema tetradactylum* (Shaw) and *Polynemus sextarius* (Bloch and Schneider), Polynemidae - Pisces.
4. Biochemical basis for the differentiation of *Nemipterus tolu* (Valaenciennes) and *Nemipterus delagoae* (Smith), Nemipteridae – Pisces.

National Seminar on Aquatic Environment and Organisms. 19-21 October, 1989- Chikkaiah Naicker College, Erode (Tamil Nadu).

5. LDH profile of *Upeneus bensasi* (Temminick and Schlegel), Mullidae-Pisces.

National Symposium on Environmental Biology. 2-4 April, 1987- St.Xavier's Collge, Palayamkottai (Tamil Nadu)

6. A study of impact of chlorpyrifos on the reproductive and associated tissues in the freshwater female crabs, *Spiralothelphusa hydrodroma* (Herbst)

At 16th All India Congress of Zoology and National Symposium on Recent Advances in Animal Research with special emphasis on Invertebrates. 21, 22 & 23 Oct.2005. Dept.Zoology, Dr.Babasaheb Ambedkar Marathwada University, Aruangabad-431004. (M.S)

7. *Spirulina fusiformis* (SCP) – A nutritional supplement.

8. Utilization of *Rhodospirillum rubrum* in biotechnology.

One day symposium on Microbial Biodiversity and Biotechnology. 25 January, 2008, P.G. Dept. Microbiology, Sir Theagaraya College, Chennai-21.

9. Transformation of our health and our planet by the earth food – Spirulina.

National Conference on current trends in Medicinal Plants Research and Herbal Technology (NCMPRHT). 7-8 March, 2008, P.G. and Research Dept. Botany, Pachaiyappa's College, Chennai-30.

10. Decreased expression of nutritional content influenced by heavy metal lead on the lobster, *Thenus orientalis*.

11. Impact of pesticide chlorpyrifos on the enzymes of the crab, *Uca annulipes*

12. Effect of heavy metal arsenic on the enzymes of the crab, *Uca triangularis*.

National Seminar on Environmental Toxicology (ENTOX '09), 26-27 February, 2009, Department of Advanced Zoology and Biotechnology, St. Xavier's College, Palyamkottai, TamilNadu.

13. Calcium and Biotic interactions – An Overall Review.

International Conference on Climate Change and Bioresource (ICCCB – 2010), 9-12 February, 2010, Department of Biotechnology, Bharathidhasan University, Tiruchirapalli, Tamilnadu, India.

14. Independent and synergistic effect of *Azardirachta indica* and *Andrographis paniculata* leaf extracts on the glucose levels of *Rana hexadactyla*.

International conference on Medicinal plants and Herbal drugs: Challenges and opportunities in cultivation sustainable utilization and conservation (ICMPHD – 2010), 4-6 March, 2010, P.G. & Research Department of Botany, Pachaiyappa's College, Chennai, Tamilnadu, India.

15. Digital curation: A sustainable alternative method.

International Conference on Global Environment and its sustainability: Implications and Strategies organized by Indian Society of Education and Environment (ISEE) at RKM Vivekananda College, Chennai -4 on 4th November, 2010.

16. A comparative study of the larvicidal property of different control agents on varied species of juvenile mosquitoes.
17. Biodegradation and decolourization of dyes using *Bacillus subtilis*.
18. Independent toxic effects of endosulfan, barium chloride and lead nitrate on the Indian major carp, *Labeo rohita*.
19. Coral bleaching and Climate change.
20. Acute toxicity of some agriculture fertilizers in fingerlings of *Catla catla*.
21. A study of effectiveness of an innovative strategy to teach environment science.
22. Toxicity of Holothurians and Asteroids – A myth.
23. Chlorpyrifos – An inhibitor of Acetyl cholinesterase.

National Seminar on Recent Trends in Environmental Toxicology (RTET – 2011), 28 & 29 January 2011, organized by School of Enzymology and Environmental Toxicology (SEET), Sir Theagaraya College, Chennai – 600 021.

24. Acute toxicity of some agricultural fertilizers in fingerlings of *Labeo rohita*.
25. Biodegradation of coir pith (organic waste) using vermiculture and bioinoculant.
26. Independent toxic effects of endosulfan, barium chloride and lead nitrate on the Indian major carp, *Labeo rohita*.

National conference on Advances in Environmental Research: An interdisciplinary approach, 11th and 12th March, 2011, Department of Zoology, Annamalai University, Annamalainagar – 608 002.
27. Studies on the distribution of heavy metal concentrations in River Adyar, Chennai, Tamilnadu.
28. Comparative investigation of independent and successive toxic effects of a pesticide and two metallic compounds among the Indian major carps.
29. Toxicity studies of endosulfan, chlorpyrifos and carbaryl in fiddler crab, *Uca triangularis*. Toxicity studies of endosulfan, chlorpyrifos and carbaryl in fiddler crab, *Uca triangularis*.

International Conference on ‘Science and Technology for Clean and Green Environment’ organized by Zoology Wing, Annamalai University, Annamalainagar-608 002, Tamilnadu on 27th & 28th July, 2012.

30. Seed potential of *Panaeus indicus* for aquaculture in Tamilnadu.

National Conference on Aquatic Animal Health and Management – 2012 (NCAAHM-2012) organized by Centre of Advanced Study in Marine Biology, Parangipettai, Annamalai University, on 14th & 15th September, 2012.

31. Enzymatic effects of carbaryl in *Uca triangularis*.

32. Mineral content of commercially important fishes from two fish landing centres in Coromandal coast.

33. Influence of live feeds on biomass and biochemical aspects in the larvivoracious fish, *Gambusia affinis*.

34. Shrimp seed resources in and around Marakkanam area.

35. Human infertility and *Ficus religiosa* – A study.

At the 23rd All India Congress of Zoology and National Conference on Conservation and Management of Faunal Resources for Sustainability (CMFRS-2012) organized by Department of Advanced Zoology and Biotechnology, Guru Nanak College, Chennai and Zoological Society of India, Bodh Gaya on 3-5 October, 2012.

36. Biodiversity of fin fish in Mutukkadu backwaters, Southeast coast of India.

37. Biodiversity of Brachyuran crabs in Pulicat lake.

At the National Conference on “Relevance of Conservation and Sustainable Utilization of Bioresources organized by PG and Research Department of Zoology, Auxilium College, Vellore, TamilNadu, India on 13th and 14th December, 2012.

38. Studies on gastropod diversity from the trash fish in Chennai coastal waters, Tamil Nadu.

At the National Seminar on Biodiversity Informatics organized by the Centre for Bioinformatics, Department of Bioinformatics, Bharathiar University, Coimbatore on 30th August, 2013.

39. Effect of Aluminium chloride and bark extract of *Salacia oblonga* on haematological parameters of Wistar albino rats.
40. Studies on ichthyofaunal biodiversity of Kolavai Lake, Chengalpet, Tamil Nadu, India.

At the National conference on Environmental Issues and Challenges – Vision 2020 (EnVISION 2020) organized by Department of Zoology, Annamalai University, Annamalai Nagar on 27th and 28th September, 2013.

PAPERS PRESENTED

1. Transformation of our health and our planet by the earth food – Spirulina.

National Conference on current trends in Medicinal Plants Research and Herbal Technology (NCMPRHT). 7-8 March, 2008, P.G. and Research Dept. Botany, Pachaiyappa's College, Chennai-30.

2. Effect of heavy metal arsenic on the enzymes of the crab, *Uca triangularis*.

National Seminar on Environmental Toxicology (ENTOX '09), 26-27 February, 2009, Department of Advanced Zoology and Biotechnology, St. Xavier's College, Palyamkottai.

3. Calcium and Biotic interactions – An Overall Review.

International Conference on Climate Change and Bioresource (ICCCB – 2010), 9-12 February, 2010, Department of Biotechnology, Bharathidhasan University, Tiruchirapalli, Tamilnadu, India.

4. Independent and synergistic effect of *Azardirachta indica* and *Andrographis paniculata* leaf extracts on the glucose levels of *Rana hexadactyla*.

International conference on Medicinal plants and Herbal drugs: Challenges and opportunities in cultivation sustainable utilization and conservation (ICMPHD – 2010), 4-6 March, 2010, P.G. & Research Department of Botany, Pachaiyappa's College, Chennai, Tamilnadu, India.

5. Digital curation: A sustainable alternative method.

International Conference on Global Environment and its sustainability: Implications and Strategies organized by Indian Society of Education and

Environment (ISEE) at RKM Vivekananda College, Chennai -4 on 4th November, 2010.

6. Toxicity studies of endosulfan, chlorpyrifos and carbaryl in fiddler crab, *Uca triangularis*.

International Conference on ‘Science and Technology for Clean and Green Environment’ organized by Zoology Wing, Annamalai University, Annamalainagar-608 002, Tamilnadu on 27th & 28th July, 2012.

7. Seed potential of *Panaeus indicus* for aquaculture in Tamilnadu.

National Conference on Aquatic Animal Health and Management – 2012 (NCAAHM-2012) organized by Centre of Advanced Study in Marine Biology, Parangipettai, Annamalai University, on 14th & 15th September, 2012.

MEMBERSHIP / FELLOWSHIP AWARDS

Membership:

1. Life Member, Zoological Society of India (MZSI)
2. Life Member, Indian Society of Human Genetics (ISHG)
3. Life Member, Indian Science Congress Association (ISCA)
4. Life Member, Indian Academy of Environmental Sciences (IAES)

Fellowship Awards:

1. Fellow of Society of Life Sciences (F.S.L.Sc.)
2. Fellow of Society for Applied Biotechnology (F.S.A.B.)
3. Fellow of Zoological Society of India (F.Z.S.I.)

**NO. OF STUDENTS AWARDED DEGREE
(Ph.D./M.Phil. IN ANY UNIVERSITY)**

Ph.D.	-	5 (University of Madras)
M.Phil.	-	17 (12- Periyar University; 4 – Annamalai University; 1 – Alagappa University)

ANY OTHER SPECIFY

Seminars organized

1. Organized a Two-day National Seminar on Recent Trends in Environmental Toxicology (RTET-2011) at Sir Theagaraya College, Chennai on 28th and 29th January, 2011. (Organizing Secretary, RTET – 2011)
2. Initiated School of Enzymology and Environmental Toxicology (SEET) and signed MoU with GLR Laboratories Pvt. Ltd. Cambridge, U.K. and Chennai.

Teaching / Research Exposure

1. 1991-1993 - Served as a Research Fellow in the Department of Zoology Pachaiyappa's College, Chennai-600 030.
2. 1993-1994 Served as a Technologist at Shri A.M.M. Murugappa Chettiar Research Centre, Taramani, Chennai-600 113.
3. 1994-1997- Served as a Project Research Officer for the project funded by E.I.D. Parry Ltd. And Parry Agro Ltd., at Shri A.M.M. Murgappa Chettiar Research Centre, Taramani, Chennai-600 113.
4. 1997-1998 - Served as Project Research Officer and In-charge of Technology Resource Centre for the project funded by CAPART, New Delhi at Shri A.M.M. Murugappa Chettiar Research Centre, Tharamani, Chennai-600113.
5. 1998-2002 – Served as Lecturer in Zoology, Sir Theagaraya College, Chennai – 600 021.
6. 2002-2007 – Served as Lecturer (Senior Scale) in Zoology, Sir Theagaraya College, Chennai-600 021.
7. 2007- 2010 – Served as Lecturer (Selection Grade) in Zoology, Sir Theagaraya College, Chennai- 600 021.

8. 2010 – till date – Serving as Associate Professor in Zoology, Sir Theagaraya College, Chennai- 600 021.

Co-curricular activities

1. Participated in a 30 hours course entitled “SWIFT INDIA” during March 2005 from NIIT, Chennai.
2. Served as Programme Officer, Youth Red Cross, Sir Theagaraya College during 2007 –2009.
3. Served as Examiner (both Theory and Practical Examinations) for B.Sc., and M.Sc., candidates.
4. Served as Examiner for M.Phil., and Ph.D. candidates, conducting *viva-voce* examinations.
5. Presented a lead lecture on “Bioaccumulation of Chemicals” at the National Seminar on Environmental Toxicology (ENTOX '09), 26-27 February, 2009, Department of Advanced Zoology and Biotechnology, St. Xavier's College, Palyamkottai, TamilNadu.
6. Chaired the Toxicology session at the National Seminar on Environmental Toxicology (ENTOX '09), 26-27 February, 2009, Department of Advanced Zoology and Biotechnology, St. Xavier's College, Palyamkottai, Tamil Nadu.
7. Presented a plenary lecture on “Nature and Toxicology” at the 23rd All India Congress of Zoology and National Conference on Conservation and Management of Faunal Resources for Sustainability (CMFRS-2012) organized by Department of Advanced Zoology and Biotechnology, Guru Nanak College, Chennai and Zoological Society of India, Bodh Gaya on 3-5 October, 2012.
8. Chaired the Environmental Toxicology session at the 23rd All India Congress of Zoology and National Conference on Conservation and Management of Faunal Resources for Sustainability (CMFRS-2012) organized by Department of Advanced Zoology and Biotechnology, Guru Nanak College, Chennai and Zoological Society of India, Bodh Gaya on 3-5 October, 2012.

Social Activities:

1. Secretary, Trust for Restoration of Ecology and Environment (TREE)
2. Founder-Secretary, Karunai Kalagniyam, A Government Registered Trust for helping poor, differently abled and deprived.

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3. Received the Certificate of Appreciation for having donated blood at the Voluntary Blood Donation Camp organized by Association of Voluntary Blood Donars, Chennai - 86 on 31.01.2008 at Sir Theagaraya College, Chennai-21.