

## CURRICULUM VITAE

**Dr. A. PANNEER SELVAM**, M.Sc., M.Phil., Ph.D.,  
Associate Professor,  
Department of Zoology,  
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### Academic Profile

S.No.	Degree	University	Year	Subjects	Class
1.	B.Sc.	Bharathidasan University	1991	Environmental Zoology	Second
2.	M.Sc.	Bharathidasan University	1993	Zoology	First
3.	M.Phil.	University of Madras	1994	Zoology	Highly Commended
4.	Ph.D.	University of Madras	1999	Zoology (Environmental Microbiology)	Highly Commended

### PROJECT WORK

1. Two years Research Project work towards M.Sc. :  
“Studies on feeding and digestion in estuarine clam *Meretrix casta* chemnitz (Mollusca: Bivalvia)”
2. One year Research Project work towards M.Phil. :  
“Studies on the prosoma of the Jumping spider *Salticus species*”
3. Five years Research work towards Ph.D. :  
“Studies on sago industry effluent Bio-remediation using the white rot fungus *Phanerochaete chrysosporium* Burds”

## **FIELDS OF SPECIALIZATION**

- ❖ Environmental Biology,
- ❖ Environmental Microbiology,
- ❖ Industrial Biotechnology,
- ❖ Environmental Nano Biotechnology and,
- ❖ Applied Biochemistry.

## **RESEARCH EXPERIENCE**

- ❖ **Twenty years** of research experience involving in various modern techniques and handling of different instruments related to microbiological applications. Familiar with estimation and characterization of various effluent and culture techniques.
- ❖ R&D Consultancy towards setting up of effluent treatment plants for sago industries.
- ❖ Characterization of water quality.
- ❖ Isolation and identification of fungi and bacteria.
- ❖ Biochemical analysis - Spectrophotometry, Chromatography & Electrophoresis.
- ❖ Nanotechnology applications.
- ❖ Cancer application (Lung).

## **PROFESSIONAL EXPERIENCE**

<b>Research</b>	<b>20Years</b>
<b>Teaching</b>	<b>16 Years</b>

## **ADMINISTRATIVE EXPERIENCE**

- ❖ Research Co-Ordinator.
- ❖ Head in charge University Department.

- ❖ Organized National and International conferences.
- ❖ Organized National Science day at University level.
- ❖ Curriculum Development committee.
- ❖ Project guidance.
- ❖ Member – Academic Council, Thiruvalluvar University.
- ❖ Member- Board of studies, Thiruvalluvar University.
- ❖ Member- Internal Quality Assurance Cell (IQAC), Thiruvalluvar University.
- ❖ Member- RUSA committee, Thiruvalluvar University.
- ❖ Member- Assistant Professor Selection Committee Pachaiyappa's Trust.
- ❖ Member-Guest Lecture selection Committee-Thiruvalluvar University Constituent Colleges.
- ❖ Member-Contributory pension Scheme, Thiruvalluvar University.
- ❖ Coordinator- State Eligibility Test (SET 2012), conducted by Bharathiar University, Coimbatore.
- ❖ Member - Establishment and Resourcing of Entrepreneurship Development Cells, Thiruvalluvar University.
- ❖ Member - UGC-XI-Award of Faculty Improvement Programme, Thiruvalluvar University.

#### **Ph.D, GUIDANCE - 2012**

- ❖ **D. Manivel**, Studies on low nitrate level in the freshwater *Cyanobacterium Synechocystis Sp.* And its molecular characterization
- ❖ On going 8-Research scholars.

#### **M.Phil, GUIDANCE – 11**

- ❖ **S. Nanda Gopal** “Stem Anatomical and Biochemical feature of some members in *Solanaceae L.*”
- ❖ **B.Clara Gnana Selvi** “Biochemical studies of sea weed extract of *Podina Terastomatic* on Carbon Tetra Chloride induced Hepatotoxicity in Albino Mice.”

- ❖ **M.Sarala** “Studies on Physico-chemical and Mycological Characterization of Sugar industry Effluent.”
- ❖ **P.Beema Bai** “Studies on Physico-chemical and Bacteriological characterization of Sugar industry Effluent.”
- ❖ **J.Ramesh** “Physico chemical characterization and Heavy Metals analysis of Water and Soil in Thandalam Lake, Ranipet, Vellore.”
- ❖ **V.Vijaya Kumar** “Studies on the Heavy Metal analysis of Fresh Water, Soil and Fish samples of Sedarapet Lake.”
- ❖ **B.Z.Subash** “Analysis of Heavy Metals in and Around Sipcot Ranipet, Vellore.”
- ❖ **N.Nabeela** “Studies on Bioremediation of Basic Crystal Violet Dyes using dead Biomass of Pleurotus Platypus Species.”
- ❖ **G.Hari Dass** “Marine Ecosystem of Pigmented Bacteria and its Application.”
- ❖ **M.Vilvanathan** “Studies on removed of Fluoride Ions from the Water samples with highly effective Nanoparticles.”
- ❖ **K.Geetha** “Using household waste as and adsorbent heavy metals from water (Cu & Pb) are removed.

#### **M.Sc, GUIDANCE - 14**

- ❖ **R.Sangeetha** “Antibacterial activity of Coccinia Grandis Leaf extract on selective bacterial strains.
- ❖ **J.Ramesh** “Testicular Toxicity Assessment of Andrographis Paniculata Aqueous leaf extract on male albino mice.”
- ❖ **K.V.Settu** “Effect of Cadmium Chloride Toxicity on the population growth of Brachionus Plicatilis.”
- ❖ **K.Sivakumar** “Isolation and Identification of bacteria in lake water in and around Ranipet area, Vellore District.”
- ❖ **K.Shanmugasundaram** “Isolation and Characterization of bacteria and fungi in soil in and around karai, Ranipet, Vellore District.”

- ❖ **R.Nandhinidevi** “Isolation and Identification of fungi in lake water in and around Ranipet area, Vellore District.”
- ❖ **V.Poongodi** “Isolation and Identification of fungi from water in and around Vellore Co-Operative Sugar Mill Ammondi, Vellore District.”
- ❖ **K.Vidya** “Isolation and Identification of fungi from soil in and around Vellore Co-Operative Sugar Mill Ammondi, Vellore District.”
- ❖ **A.Lakshmi** “Isolation and Identification of bacteria from water in and around Vellore Co-Operative Sugar Mill Ammondi, Vellore District.”
- ❖ **K.Anitha** “Isolation and Identification of bacteria from soil in and around Vellore Co-Operative Sugar Mill Ammondi, Vellore District.”
- ❖ **R.Isaivani** “Isolation and Identification of Bacteria in Water from In and Around Perumugai Area Vellore District”.
- ❖ **A.Jayasudha** “Isolation and Identification of Bacteria in Water from In and Around Sipcot Area Vellore District “.
- ❖ **G.Shanthi** “Isolation and Characterization of Fungal In Soil from In and Around Sipcot Area Vellore District”.
- ❖ **S.Asha** “Isolation and Characterization of Fungai in Soil from In and Around Perumugai Area Vellore District”.

#### **RESEARCH PAPERS PUBLISHED - 27**

- ❖ **A. Panneerselvam**, S. Dawood Sharief and Nausheen Dawood. Effect of Malathion on the kinetic parameters of the enzyme acetyl cholinesterase in the brain regions of the fish *Oreochromis mossambius* (peter). *Indian J. Environ. & Toxicol.*, 1996, **6 (1)** : 35-38.
- ❖ **A. Panneerselvam**. Studies on the prosoma of the jumping spider *Salticus* specis. *J. Eco. biol.*, 1997, **3**: 33-36.
- ❖ **A. Panneerselvam**. Studies on feeding and digestion in a sub Tidal clam *Meretrix casta* Chemnitz (Mollusca: Bivalvia). *J. Eco. biol.*, 1997, **5**: 40-43.
- ❖ S. Dawood Sharief, Nausheen Dawood and **A. Panneerselvam**. Recovery of acetyl cholinesterase in different regions of the brain, Liver and kidney of rat, *Ratus norvegicus* exposed to phorate. *Indian J. Environ. & Toxicol.*, 1998, **7(3)**: 23-26.

- ❖ **A. Panneerselvam.** Isolation and identification of fungi from sago effluent. *Arch. Microbiol.*, 1999 **163**: 221 – 224.
- ❖ **A. Panneerselvam.** Bio-treatment of sago effluent by modified root-zone method. *Ambio.*, 1999, **27 (12)**: 113 – 118.
- ❖ **A. Panneerselvam.** Bio-remediation of sago effluent using white rot fungus *Phanerochaete chrysosporium*. *Appl. Environ. Microbiol.*, 2000, **76** : 325 - 329.
- ❖ **A. Panneerselvam, S. Dawood Sharief and Nausheen Dawood.** Physico-chemical parameters of sago effluent and well water collected from different areas. *Jr. Of Industrial Pollution control* 19 (1) 2003 pp.135 – 141
- ❖ Vijay Antony. M.Mohan.S. and **Panneerselvam.A.** BI570-Bioremediation potential of some white rot fungi. Review article spring international Biodeterioration & Biodegradation 2004: 52-59.
- ❖ **Panneerselvam.A,** Mohan.S and Vijay Antony Bioremediation of coir pith and paddy straw. *AJMBES* (2006) 104: 127-13.
- ❖ A.Sivaraj, B.Preethi Jenifa, M. Kavitha, P. Inbasekar, B. Senthilkumar, A.Panneerselvam\*. Antibacterial activity of *Coccinia grandis* leaf extract on selective bacterial strains. *Pharmaceutical Science. Journal applied.* 2011,02:120:123
- ❖ **A.Panneerselvam\***, and G.Arumugam. Isolation and identification of bacteria from lake water in and around Ranipet area, Vellore District. *International Journal of Pharmaceutical Biological Archives.* 2012; 3(4); 1008-11. (Impact factor 1.55)
- ❖ **A.Panneerselvam\*** and G.Arumugam Isolation and identification of fungal strains from lake soil in and around Ranipet area, Vellore District. *International Journal of Pharmaceutical Biological Archives.* 2012; 3(5); 1337-1339. (Impact factor 1.55)
- ❖ **A.Panneerselvam\***, K.Ramya, N.Periyathmbi, R.Jayakumaararaj, Arunadevaraj Biopesticidal effect of acetate leaf extracts of datura metal L.(solnaceae) on the larvae of *Helicoverpa armigera* (Hubner). *Int.J.Pharm.Sci.Rev.Res.* 2013;18(1)

- ❖ G.Arumugam, S.Hannahelizabeth, J.Thirumagal, N. Nasimunislam, **A.Panneerselvam\***. Evaluation of water quality of Pulliyankanu Lake with reference to physico-chemical aspects at Vellore District. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2013; 2(5): 2278-4357. (Impact factor 2.786)
- ❖ N.Nasimunislam, S.Jemimahnaie, V.Mohanasrinivasan, **A.Panneerselvam**, C. Subathra Devi. Invitro evaluation of antibacterial and antioxidant activity of *Coccus nucefera* shell extract. *Research Journal of Biotechnology*. 2013. ISSN-0973-6263.
- ❖ N.Nasimunislam, S.Jemimahnaie, S.Shaikjamee, S.Khora, Venkatkumar, V.Mohanasrinivasan C.Subathra Devi, **A.Panneerselvam\***. Cytotoxic property of *Cocos nucifera* shell extracts on HeLa cells. *Research journal of pharmacy and technology*. 7(5) ISSN.0974-3618.
- ❖ B. Claragnanaselvi, **A. Panneerselvam**, Amutha Santhanam. Hepatoprotective Effects of Brown Algae *Padina Tetrastromatica* against Carbon Tetrachloride Induced Hepatotoxicity. *Int J Pharm Bio Sci*. 2014; 5 (2): 66-76. (Impact factor: 2.958)
- ❖ Hannah Elizabeth. S, **Panneerselvam\*.A**, Phytoremediation of TNT in soil at Vellore district, Tamilnadu, India. *Research Journal of Pharmacy and Technology*. 7 (8) August 2014. ISSN 0974-3618.
- ❖ Hannahelizabeth.S, **Panneerselvam\*.A**, Characterization of 2,4,6-Trinitrotoluene (TNT)-Metabolizing strain *Pseudomonas aeruginosa* sp TUHP1 isolated from TNT-polluted soils in the Vellore district, Tamilnadu, India. Accepted in *International Journal of Pharmaceutical sciences and pharmacy research*. 2014. ISSN 0974-3618.
- ❖ G.Arumugam, T.Thirumalai, A.MohamedSadiq, M.Nagalingam, **A.Panneerselvam\*** Protective role of vitamin-E on ethylene glycol induced renal stone formation rats. *Global Impact journal of life science research* (Vol.1,No.1(2014)
- ❖ G.Arumugam, M.Nagalingam, **A.Panneerselvam\*** Production of invertase enzyme from *Saccharomyces cerevisiae* strain isolated from sugarcane and grape juices. *Pelagia Research library, European journal experimental biology*. CODEN (USA) EJBAU. (2014, 4 (5): 29-32 ISSN 2248-9215

- ❖ M.Nagalingam, G.Arumugam, **A.Panneerselvam\*** Antimicrobial activity of some Indian folklore medicinal plants against drug resistant bacteria and fungi isolated from clinical samples. Pelagia Research library, Asian journal of Plants and Research. CODEN (USA) AJPSKY. (2015, 5 (6): 49-56 ISSN 2249-7412.
- ❖ Claragnanaselvi.B, Jothilakshmi.H, **Panneerselvam.A**, Amutha santhanam Potential Application of Seaweed *Padina Tetrastromatica* against Paracetamol Induced Hepatotoxicity in Animal Model. International Journal of Alternative Medicine, July 2015 ISSN:2051-4296, Vol.20, Issue.1
- ❖ Nagalingam.M, Arumugam.G, **Panneerselvam.A\*** Effects of Selected Indian Folklore Medicinal Plant on Rat Model of *Pseudomonas Aeruginosa* Induced Lung Infection World Journal of Pharmacy and Pharmaceutical Sciences. 2015: 2278-4357. (Impact factor 5.210)
- ❖ G.Arumugam, **A. Panneerselvam\*** Antidiabetic Effects of Aqueous and Methanolic Fruit Pulp Extract of *Pithecellobium dulce* on Alloxan Induced Diabetic Rats. Advance Research Journal of medical and clinical Sciences. Volume 1/Issue 2/November 2015: 18-27.
- ❖ G.Arumugam, A.Mohamed sadiq, M.Nagalingam, **A.Panneerselvam\*** Genetic and biochemical markers in Emphysema. American journal of Science and medical research. February 2016 ISSN: 2377-6196, 179-185.

## INVITED LECTURES AND CHAIRMANSHIPS

- ❖ UGC Sponsored National Conference Advances in Environmental Research: An Interdisciplinary Approach (AERIA'11)" 11<sup>th</sup> And 12<sup>th</sup> March 2011. Department Of Zoology, Annamalai University.
- ❖ Government Arts College (Men), Krishnagiri, Department of Zoology, NSBS-2015, National Seminar on recent trends in biological sciences, delivered in special Lecture, 26<sup>th</sup> August – 2015.

## PAPERS PRESENTED IN SYMPOSIA - 10

- ❖ G. Dharani, B. Dilshad Begum and **A. Panneerselvam**, predatory efficiency of hemipteran bug *Laccotrephes Gresius* in Tap and Coom



water. Paper presented in second National Conference of Applied Zoologists Research Association held at Madras, India December 27-29, 1994.

- ❖ B. Dilshad Begum, G. Dharani, and **A. Panneerselvam**. Prey-predator interactions in *Cybister Brevis* Aube (Coleoptera: Insecta). Presented in second National Conference of Applied Zoologists Research Association held at Madras, India, December 27-29, 1994.
- ❖ **A. Panneerselvam**. Physio-chemical parameters of sago effluent. Paper presented in state seminar on Environmental impact assessment monitoring and management, held at Erode February 27-28, 1998.
- ❖ **A. Panneerselvam**, Resent Trends In Life Science Bio-Mic 13 Resent Trends In Life Science(BIO-MIC)12<sup>th</sup> – 13<sup>th</sup> Dec 2013 Auxillium College (Autonomous), Vellore
- ❖ **A. Panneerselvam**. Annamalai University, Department Of Zoology, UGC & SAP Sponsored International Conference On” Herbal Medicine and Nuro Endocrinology.
- ❖ **A. Panneerselvam**. Thiruvalluvar University, Department of Zoology, DST-SERB Sponsored National Symposium on Biodiversity (NSBIO-2015) 18<sup>th</sup> – 20<sup>th</sup> February 2015.
- ❖ **A. Panneerselvam**. Thiruvalluvar University, Department of Biotechnology, CSIR-DST Sponsored National Symposium on (RABT-2015) 26<sup>th</sup> –27<sup>th</sup> February 2015.
- ❖ **A. Panneerselvam**. Bio Remediation-A New Weapon For Mass Destruction Of Environmental Pollutants Anthropogenic Impact On The Environment And Bioremediation Department of Zoology, Sri Venkateswara University, Thirupathi
- ❖ **A. Panneerselvam**. Extraction And Characterization Of Natural Colorants From Oilseeds Modern Trends In Zoological Research Thrissur 25<sup>th</sup> & 26<sup>th</sup> March P.G. Dept. of Zoology st. Aloysius College, Elthuruth, Thrissur, Kerala.

- ❖ **A.Panneerselvam.** Government Arts College (Men), Krishnagiri, Department of Zoology, NSBS-2015, National Seminar on recent trends in biological sciences, delivered in special Lecture, 26<sup>th</sup> August – 2015.

### **SYMPOSIUM / WORKSHOP ATTENDED- 17**

- ❖ National Conference of Applied Zoologists Research Association held at Madras, India on December 27-29, 1994.
- ❖ VII All India Symposium on Invertebrate reproduction, held at Sree Narayana College, Cannanore (Kerala, India) during 5-7 April 1995.
- ❖ Work shop on “Automation and Instrumentation in Clinical Chemistry”, held at VMKV Medical College Salem on 30<sup>th</sup> August 1997.
- ❖ National Seminar on Environment and health on 5<sup>th</sup> October 1997 at Chennai.
- ❖ State seminar on Environmental impact assessment monitoring and management, held at Erode on February 27-28, 1998.
- ❖ Seminar on "Medicinal Plants Research and Its Current Status" held at Periyar University, Salem on 30<sup>th</sup> October, 2001.
- ❖ Annamalai University, Department Of Zoology, UGC Sponsored National Conference On “Advances In Environmental Research: An Interdisciplinary Approach ( AERIA ’11)” 11<sup>th</sup> And 12<sup>th</sup> March 2011 Paper Presented.
- ❖ VIT University, School Of Biosciences And Technology, Lecture Workshop On, “Products From Natural Resources: Prospecting And Utilization” 27<sup>th</sup> -29<sup>th</sup> JULY 2011.
- ❖ VIT University, School Of Biosciences And Technology, Lecture Workshop On, “Mapping Utilization And Conservation Of Bioresources” 29<sup>th</sup> – 31<sup>st</sup> October 2012.
- ❖ VIT University, School Of Biosciences And Technology, 3<sup>rd</sup> Edition Of VIT BIO SUMMIT 2014 And Prof.K.J.Endowment Lecture Series, Held On 7<sup>th</sup> And 8<sup>th</sup> August 2014.
- ❖ VIT University, School Of Biosciences and Technology, Lecture Workshop On, “Genetic Diversity, Molecular Evolution and Genomics” 12<sup>th</sup> to 14<sup>th</sup> August 2014.

- ❖ Annamalai University, Department Of Zoology, UGC & SAP Sponsored International Conference On” Herbal Medicine and Nuro Endocrinology.
- ❖ Thiruvalluvar University, Department of Zoology, DST-SERB Sponsored National Symposium on Biodiversity (NSBIO- 2015) 18<sup>th</sup> – 20<sup>th</sup> February 2015.
- ❖ Thiruvalluvar University, Department of Biotechnology, CSIR-DST Sponsored National Symposium on (RABT- 2015) 26<sup>th</sup> –27<sup>th</sup> February 2015.
- ❖ Government Arts College (Men), Krishnagiri, Department of Zoology, NSBS-2015, National Seminar on recent trends in biological sciences, delivered in special Lecture, 26<sup>th</sup> August – 2015.
- ❖ VIT University, School Of Biosciences and Technology, 4th Edition of VIT BIO SUMMIT 2015 on 14<sup>th</sup> and 15<sup>th</sup> October.
- ❖ Sri Ramachandra University, Department of Biomedical Sciences, DST, DBT & ICMR sponsored National Conference on HERBISCON 2016, 17<sup>th</sup> – 18<sup>th</sup> February, 2016.

### **Membership in Scientific Organization**

- ❖ Indian Society of Invertebrate Reproduction.
- ❖ Indian Society of Toxicology.
- ❖ Indian Society of Microbiology.

**Personal Details:**

Father's Name : Shri. P. Athiappan  
Nationality : INDIAN  
Marital Status : Married  
Date of Birth : 24<sup>th</sup> July 1970  
Place of Birth : Salem, Tamilnadu, INDIA  
Permanent Address : 1/13O.Sowdapuram Post,  
Rasipuram Taluk,  
Namakkal District,  
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**Dr. A.PANNEERSELVAM**