

**Dr. V. RAVITCHANDIRANE, M.Sc., M. Phil., DIPC., Ph.D.,  
Associate Professor & Head**

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**PERSONAL MINUTIAE**

Official Address	Department of Zoology, Kanchi Mamunivar Govt. Institute for Postgraduate Studies and Research (Autonomous) (Re-Accredited by NAAC with “B++” Grade) 50 <sup>th</sup> Position in All India Rank by NIRF (Centre with Potential for Excellence) Government of Puducherry Puducherry – 605 008 India Phone- 0413-2251687
Residential Address	Dr. V. RAVITCHANDIRANE 21, 23 <sup>rd</sup> Cross Avvai Nagar Lawspet Puducherry – 605 008 India 0413-2251094 9443037277
Date of Birth	07.05.1966
Nationality	Indian
Sex	Male
Marital Status	Married
E mail ID	<a href="mailto:vairavit@yahoo.co.in">vairavit@yahoo.co.in</a>

**EDUCATIONAL QUALIFICATION**

2004	<i>Ph.D. (Marine Biology)</i>	<i>Pondicherry University</i>
1994	<i>DIPC (Diploma in Industrial Pollution and Control)</i>	<i>Annamalai University</i>
1988	<i>M.Phil. (Zoology)</i>	<i>Pondicherry University</i>
1987	<i>M.Sc. (Marine Biology and Oceanography)</i>	<i>CAS in Marine Biology, Annamalai University</i>

## **TEACHING & RESEARCH EXPERIENCE**

Teaching experience : 32 years  
Research experience : 22 years  
Research Guidance : 5 scholars undergoing Ph.D  
Guided 12 students for their M.Phil

## **FIELD OF SPECIALIZATION**

Marine Pharmacology and Microbiology  
Molecular Taxonomy & DNA barcoding of medicinally important marine fishes (**Ethnoichthyogenomics**).  
Biodiversity of fishes

## **MEMBER OF THE BOARD OF ADJUDICATORS FOR Ph.D**

University of Goa  
University of Kerala  
University of Madras  
Annamalai University  
Bharathidasan University  
Alagappa University  
Thiruvalluvar University  
Manonmaniam Sundaranar University

## **REVIEWER**

Chinese Journal of Natural Medicines, Elsevier  
Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis –  
Taylor & Francis.  
Notulae Scientia Biologicae- University of Agricultural Sciences and Veterinary  
Medicine, Cluj-Napoca- Romania.

## **COUNTRY VISITED**

: Canada

## **COMPLETED SCIENTIFIC RESEARCH PROJECT**

Research project entitled **“Popularization of Sea weed culture technique to coastal inhabitants vulnerable to natural disaster”** funded a sum of Rs.70,000/- by the

Department of Science, Technology and Environment, Govt. of Puducherry, Puducherry.

Research project entitled **“Documentation of fishermen traditional knowledge on medicinal values of marine fishes”** funded a sum of Rs. 4, 50,000/- by the University Grants Commission, New Delhi under the College with Potential for Excellence Scheme.

### **SEMINAR / WORKSHOP/ COLLOQUIUM / WEBINAR ORGANIZED**

UGC Sponsored two day National seminar on **“Molecular approaches for sustainable bio-diversity”** on 22 and 23<sup>rd</sup> March, 2018.

One day Workshop on **“Plagiarism in Research”** on 24<sup>th</sup> February, 2020

One day National Level Colloquium on **“Intellectual Property Rights and Patents”** on 28<sup>th</sup> February, 2020

Webinar on **“Advances in Environmental Monitoring”** on 07<sup>th</sup> June, 2021.

National webinar on **“Climate change and implications on biodiversity”** on 18<sup>th</sup> June, 2021.

### **RESEARCH PUBLICATIONS**

1. Marine Animal and Plant Anticancer Constituents, *Amala Research Bulletin*, 2006; 26:83-86.
2. Extraction and characterization of bioactive substances from ray fishes and their antibacterial property, *Asian journal of Microbiology, Biotechnology & Environmental Sciences*. 2008; 10 (2): 245-249.
3. Studies on the analgesic and anti-inflammatory properties of crude extracts of sting ray, *Dasyatis zugei* (Muller and Henle 1841), *Biosciences, Biotechnology Research Asia*, 2008; 5(1), 343-348.
4. Evaluation of antimicrobial properties of crude extracts of *Narcine timlei* (Bloch & Scheider-1801), *Journal of Pure and Applied Microbiology*. 2009; 3(1); 175-80.

5. Vaithilingam Ravitchandirane, Vaithinathan Geetha, Vijayan Ramya, Bilavendiran Janifer, Muthusamy Thangaraj Jayachandran Subburaj, Vellaichamy Ramanadevi and Takshnamurthy Ganesan: Molecular identification and phylogenetic relationships of threadfin breams (Family: *Nemipteridae*) using mtDNA marker, *Notulae Scientia Biologicae*. 2012; 4(2): 13-18.
6. Ravitchandirane, V, Yogamoorthi A and M. Thangaraj: Assessment of analgesic and anti-inflammatory properties of crude extracts of ray fish, *Narcine brunnea*, *Asian Pacific Journal of Tropical Biomedicine*. 2012. 1-4.
7. Ravitchandirane, V, Yogamoorthi A and M. Thangaraj: Pharmacological investigation and spectral characterization of bioactive compounds from crude extracts of sting ray, *Dasyatis jenkinsii* (Annandale, 1909), *Chinese Journal of Natural Medicines*, 2013; 11(5): 0500-0505.
8. Muthusamy Ravichandiran, Selvam Thiripurasalini, Vaithilingam Ravitchandirane, Srinivasa Gopalane, Chelladurai Stella: Chemical constituents and anti-tuberculosis activity of ink extracts of cuttle fish, *Sepiella inermis*, *Journal of Coastal Life Medicine*, 2013; 1(4): 253-257.
9. Vaithilingam Ravitchandirane, Verappan Sukumar and Muthusamy Thangaraj: Phylogenetic status of *Babylonia zeylanica* (Family Babyloniidae) based on 18S rRNA gene fragment, *Annals of West University of Timisoara, ser. Biology*, 2013; Vol XVI (2) : 135-140.
10. Rathinamal V, Kavimani S and Ravitchandirane V: Evaluation of analgesic, anti-inflammatory and anti-cancer activities of cartilage extract of *Aetobatus narinari*, *International Journal of Pure and Applied Bioscience*, 2014; 2(3): 331-337.
11. Dasal Vasantharaja, Vaithilingam Ravitchandirane and Veerappan Anandan: Anti-microbial activity and spectro-chemical investigation of ink extracts of *Sepiella inermis* (Van Hasselt 1835), *Notulae Scientia Biologicae*. 2014; 6(3): 273-275.

12. Ravitchandirane, V and M. Thangaraj. Ethnoichthyogenomics: identification, phylogeny and documentation of ethnomedicinally important fishes using DNA barcodes, *Genome*, 2015; 58(5): 270.
13. Thangaraj, M., D. Annadurai, T. Ramesh, R. Kumaran, and V. Ravitchandirane: DNA barcoding and preliminary phylogenetic analysis of few gastropods (Family: Potamididae and Nassariidae) in Vellar estuary mangroves, India by COI and 18S rRNA genes, *Indian Journal of Geo Marine Sciences*, April 2020; 49 (04), pp.596-600
14. Ravitchandirane V, Kavipriya J, Nithya Mary S and Vijilakshmi U: Checklist of Commercially Important Fishes of Puducherry Coastal Waters, East Coast of India" *International Journal of Fisheries and Aquatic Studies*, Jan-Feb 2021; 9(1): 159-166.
15. Kavipriya J and Ravitchandirane V: Nutritional composition and FT-IR functional group analysis of pharaoh cuttlefish (*Sepia pharaonis*) from Puducherry coastal waters, India, *Notulae Scientia Biologicae*, May 2021; 13(2):1-9.
16. Nithya Mary S, Ravitchandirane V and B. Gunalan: A new distribution record of stomatopods *Odontodactylus japonicas* (De Haan, 1844) and *Lysiosquilla tredecimdentata* (Holthuis, 1941) from the Puducherry coastal waters, east coast of India, *Journal of Threatened Taxa*, June 2021; 13(7):18903–18907.
17. Nithya Mary S, Ravitchandirane V and B. Gunalan: Diversity and Taxonomical Identification of Rays in Pondicherry (Puducherry) Coastal Waters, *Oceanography & Fisheries Open Access Journal*, July 2021; 14(1): 001-007.
18. Nithya Mary S, Ravitchandirane V and B. Gunalan: Status of family Labridae, special reference with diversity and taxonomical characters from Puducherry coastal waters, Coromandel Coast, *Research Inventy: International Journal of Engineering And Science*, August 2021; 11(8): 17-22.
19. Nithya Mary S, Ravitchandirane V and B. Gunalan: Checklist of order Tetraodontiformes (Actinopterygii) from Puducherry Coasts, Southeast Coast of India

with Nine New Records. *Records of the Zoological Survey of India*, A journal of Indian Zoology, October 2021; 121(3): 393–404.

#### **NCBI-GEN BANK NUCLEOTIDE SEQUENCE SUBMISSION**

Sl.No	Name of the species	Name of the gene	Accession number
1.	<i>Nemipterus bipunctatus</i>	COI	HQ 423413
2.	<i>Nemipterus nematophorus</i>	COI	JN 992286
3.	<i>Nemipterus zysron</i>	COI	JN 992287
4.	<i>Nemipterus japonicus</i>	COI	JN 992288
5.	<i>Babylonia zeylanica</i>	18S rRNA	KF 779496
6	<i>Himantura sp</i>	COI	KR 905698
7	<i>Trichiurus lepturus</i>	COI	KR 905699
8	<i>Leiognathus bindus</i>	COI	KR 905700
9	<i>Signanus javus</i>	COI	KR 905702
10	<i>Sardinella longiceps</i>	COI	KR 905704
11	<i>Sardinella gibbosa</i>	COI	KR 905705
12	<i>Amblygaster sirm</i>	COI	KR 905706
13	<i>Sardinella fimbriata</i>	COI	KR 905707
14	<i>Sardinella albella</i>	COI	KR 905708
15	<i>Ranina ranina.</i>	COI	MT 238120

#### **INTERNATIONAL SEMINAR/ CONFERENCE PARTICIPATED**

- 1 Participated and delivered an oral presentation in the International Symposium of Marine Ecosystems Challenges and Opportunities, MBAI, Cochin, February 9-12, 2009.
- 2 Participated and delivered an oral presentation in the International Conference on “Frontiers in Biomedical Sciences”, Holy Cross College (Autonomous), Tiruchirappalli, India, August 26-28, 2009.

- 3 Participated and delivered an oral presentation in the 6<sup>th</sup> International Barcode of Life Conference at the University of Guelph, Guelph, Ontario, Canada, August 18-21, 2015.

#### **NATIONAL SEMINAR/ CONFERENCE PARTICIPATED**

- 1 Paper presented at II National Symposium on Ecotoxicology, Department of Zoology, Annamalai University, Annamalai Nagar, June 9-11, 1988.
- 2 Paper presented at National Young Scientists' Seminar on Environmental Pollution, University of Agricultural Sciences, Bangalore, March 30-31, 1989.
- 3 Participated in Seminar on "Recent Trends in Bioinformatics and Internet Resources", Distributed Information Sub-Centre, Pondicherry University, Pondicherry, March 8-9, 1999.
- 4 Participated in the National Seminar on Coastal Pollution and Management, Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai, March 18-19, 1999.
- 5 Participated in the National Seminar on Technology Enabled Teaching, Learning Processes in Collegiate Education, RBANM's First Grade College, Bangalore, October 11-12, 2006.
- 6 Paper presented at 94<sup>th</sup> Session of Indian Science Congress, Annamalai University, Annamalai Nagar, January 3-17, 2007.
- 7 Paper presented in National Symposium on Recent Advances in Biodiversity of Indian subcontinent, Zoological Survey of India, Port Blair, Andaman and Nicobar Islands, March 11-13, 2009.
- 8 Participated in the National Symposium on Climate Change and Marine Biodiversity, CAS in Marine Biology, Annamalai University, Parangipettai, February 26, 2010.
- 9 Participated in the National Seminar on the Impact of Climate Change on Biodiversity, KMCPGS, Puducherry, January 21-22, 2011.
- 10 Paper presented in the National Conference on Advances in Environmental Research: An Interdisciplinary Approach, Annamalai University, March 11-12, 2011.

- 11 Paper presented in the National Conference on Aquatic BioToxins, CAS in Marine Biology, Annamalai University, Parangipettai, September 14-16, 2011.
- 12 Participated in the National Seminar on Chemistry- Our Life, Our Future, KMCPGS, Puducherry, November 30, 2011.
- 13 Participated in the Indian Genetics Congress, SRM University, March 4-6, 2015

#### **INTERNATIONAL WORKSHOP ATTENDED**

1. Participated UNU – UNESCO International Training Course on Biodiversity in Mangrove Ecosystems, Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai, March 10-24, 2003.

#### **NATIONAL WORKSHOPS ATTENDED**

1. Participated in the Human Rights Education Awareness Programme, Centre for Human Rights, School of International Studies, Pondicherry University, Pondicherry, February 17, 2000.
2. Participated in the training workshop in EM technology conducted by AuroAnnamat Auroville on April 1, 2006.
3. Participated in the workshop on “PCR Technique for DNA Amplification and Diagnosis” at CAS in Marine Biology, Annamalai University, Parangipettai, March 14 & 15, 2008.
4. Participated in the workshop on DNA Barcoding, PG Department of Plant Science, Avvaiyar Government College for Women, Karaikal, February 16, 2010.
5. Participated in the National workshop on Techniques in Marine Pharmacology” at CAS in Marine Biology, Annamalai University, Parangipettai, March 19 & 20, 2011
6. Participated in the 85<sup>th</sup> workshop on Electrophoresis Techniques at The Electrophoresis Institute, Biotech, Yercaud, India, May 23-June 1, 2011.

#### **ORIENTATION/REFRESHER COURSES (UGC SPONSORED) ATTENDED**

1. Orientation Course for College and University Teachers Conducted by Academic Staff College, Pondicherry University, 2 – 29 August, 1991.



2. Refresher Course in Biotechnology Conducted by Academic Staff College, Pondicherry University, 15<sup>th</sup> March – 4<sup>th</sup> April, 2001.
3. Refresher Course in Biotechnology Conducted by Academic Staff College, Sri Venkateswara University, Tirupati, 3 – 22 June, 2002.
4. Refresher Course in Zoology Conducted by Department of Zoology, Annamalai University, 2 – 22 March, 2004.

#### **RESOURCE PERSON/ INVITED LECTURE**

1. Resource Person in the District Level Guide Teachers Workshop of 14<sup>th</sup> National Children's Science Congress, Villupuram, Tamil Nadu, August 3-4, 2006.
2. Resource Person in the Staff Development Programme on Tools for the Design and Validation of Analytical Methods, Adhiparasathi College of Pharmacy, Melmaruvathur, Tamil Nadu, May 5, 2011.
3. Resource Person in the National Symposium on Recent Development in Chemistry, Department of Chemistry, Srinivasan College of Arts & Science, Perambalur, Tamil Nadu, February 25, 2012.
4. Resource Person in the Training Programme on Capacity Building, Content Enrichment and Exposure to Environmental Concerns for TGTs organized by State Training Centre, Directorate of School Education, Govt. of Puducherry, December 2012.
5. Delivered keynote address in the One day National Seminar on "Recent trend in Zoology", Organized by PG & research Department of Zoology, Thiru Kolanjiappar Government Arts College (Grade-I), Vriddhachalam, Tamil nadu, January 23, 2015.
6. Delivered a lecture in the National Symposium on "Current Advances in Immunology Research", organized by CAS in Marine Biology, Faculty of Marine Sciences, Annamalai University, Tamil Nadu, August 07& 08, 2015.
7. Delivered an invited lecture in the National Seminar on "Marine resources", Organized by Department of Zoology, M.D.T. Hindu College, Tirunelveli, Tamil Nadu, March 03& 04, 2016.
8. Delivered an invited lecture on "DNA barcoding", Organized by Department of Zoology, Sri Paramakalyani College, Alwarkurichi, Tamil Nadu on March 03, 2016.

9. Delivered an invited lecture in the National Seminar on “Clean Coast for Enhanced Fisheries”, organized by CAS in Marine Biology, Faculty of Marine Sciences, Annamalai University, Tamil Nadu, December 21, 2018.
10. Delivered an invited lecture in the Webinar on “Charles Darwin: The Father of Evolution”, organized by DST&E, Govt. of Pondicherry on February 12, 2021.

#### **HONOURS**

1. Member- Puducherry State Higher Education Council, Govt. of Puducherry
2. Member- Pradhan Mantri Matsya Yojana- District Level Committee-Puducherry

#### **MEMBERSHIP OF SCIENTIFIC SOCIETIES**

Life member, Indian Science Congress Association, Kolkata, India

Life member, Marine Biological Association of India, Cochin, India

Member, International Society of Ethnobiology, USA