


Name	<b>Dr.M.CHANDRAN</b>	
Designation	Associate Professor	
Mailing Address	Department of Zoology, Thiruvalluvar University, Serkadu- Vellore-632 115.  114, Kamarajar Street, Katpadi, Vellore-632 007.	
Academic Qualifications	M.Sc,M.Phil,B.Ed,Ph.D	
Employee Number		
Contact Phone – Office	0416-2274900	
Contact Phone – Personal	7305886169	
Contact e-mail(s)	<a href="mailto:bothaguruchandran@yahoo.co.in">bothaguruchandran@yahoo.co.in</a>	

Teaching Experience: 15 years

Research Experience:21 6 years

Research Area / Specialization(s): Environmental toxicology, Malacology and Ethanopharmacology

Research Guidance / Supervision

**Ph.D Guidance :**

S.No	Name of the Student	Title of thesis	Date of Registration with Reg No.
1.	<b>Dr. M. Mumtaz</b> (Awarded)	“Heavy Metals Load and Bioaccumulation in the Vaigai River”	REGN. NO.P8495
2.	<b>Dr. A. Radha</b> (Awarded)	“Air Pollution in the prevalence of pulmonary disease and mortality risk among the urban peoples of Madurai,Pudukkottai and Tanjore District ”	REGN. NO.P8429
3.	<b>Dr. K. Shameem Rani</b> (Awarded)	“Heavy Metal distribution and Bioaccumulation in the Cavery and Vellar estuary region”	REGN. NO.P8496
4.	<b>Dr. S. Boominathan</b> (Awarded)	“An evaluation of the plants <i>Melia azedarach</i> , and <i>Sarcosemma brevistigma</i> as a molluscicide against slug <i>Lavicaulis alte</i> (L)(Ferussac)(Mollusca:Gastropoda)”	REGN. NO.P8477
5.	<b>Dr.D. Kannammal</b> (Awarded)	“Studies on the Effect of Mercury Chloride, Lead acetate and Copper Sulphate in the reproductive mechanism of slug <i>Laevicaulis alte</i> (Ferussac)(Mollusca:Gastropoda)”	REGN. NO.P8920
6.	<b>Mr. G. Chandran</b> (Awarded)	“Kinetics and Mechanism of Tolerance Induction on acclimation of fresh water Mussel <i>Lammelliden Marginalis</i> (Lamarck) to Copper, Zinc,Lead, Mercury and Cadmium”	REGN. NO.P8291
7.	Ms.KR. Udhayavani (Submitted)	“A Mwchanism based in vitro Anticancer Drug Screening Approach for the plant Extracts of <i>Tinospora cardifolia</i> , <i>Indigofera tinctoria</i> , <i>Aristolochia Indica</i> and <i>MollugoLotodies</i> ”	REGN. NO.P8292

S.No	Name of the student	Name of the Institute/University and Register No	Title of the thesis	Years of Award
1	A.Soliappan, Reg, No.(01Z 545),Ayya Nadar Janaki Ammal College, Sivakasi	ANJA College (MKU)	Lead elevation and health hazard effects on printing workers	2002
2	N.Rathidevi,(07MZ09) Thiagarajar College, Madurai-9	Thiagarajar College. (MKU)	Eco-physiological studies on snail <i>Cepaea hortensis</i> (Mollusc:Pulmonata)	2008
3	K. Viswapriya,(07MZ10) Thiagarajar College, Madurai-9	Thiagarajar College. (MKU)	Studies on Polymorphism of <i>Cepaea normoralis</i> (Mollusca:Pulmonata)	2008
4	S.Sethuramalingam (06615015)(DLP) Alagappa University	Alagappa University	Effects of plant extracts of Anamirta cocculus on penial complex of slug <i>Laevicaulis alte</i> (Mollusca:Pulmonata)	2008
5	R. Kavitha,(06CD25470) Bharathidasan University Thiruchirapalli-3	Bharathidasan University	DNA Characterization of <i>Azospirillum lipoferum</i>	2008
6	P.Vidhyathan, (2354262)(DLP) Manonmanium Sundaranar University	Manonmanium Sundaranar University	Impact of lead toxicity on food web of selected areas in Madurai District.	2008

7	S.Saravanakumar (06Cd-5971) Bharathidasan University Thiruchirapalli-3	Bharathidasan University Thiruchi-3	Effect of different concentration of Dichlorvos on the earthworm <i>Lumbricus terrestris</i> .	2008
8	T.Sangaralingam, Bharathidasan University Thiruchirapalli-3	Bharathidasan University Thiruchi-3	Effect of Dichlorvos on the brain of Acetylcholin esterase activities of fish <i>Oreochromis mossambicus</i> .	2008
9	M. Shobana, Reg No. 603131090051 VinayakaMissions University Ariyanur, Salem-636308	Vinayaka Missions University	Biodegradation,bioconversion of agricultural wastes (Biomass) for the production of Xylanase enzyme by <i>Streptomyces sp.</i> ,and <i>Bacillus.sp</i>	2009
10	A.Nivethitha,Reg No.08MZ07 Thiagarajar college Madurai-9	Thiagarajar college (MKU)	Effectes of <i>Tribulus terrestris</i> plant extract on the biochemical of male and female reproductive organs in <i>Bradybaena similaris</i> (Mollusca:Gastropoda)	2009
11	Syed Hussain Peeran. 06cd-25982. Bharathidasan University Thiruchirapalli-3	Bharathidasan University	PCR-RAPD Characterization of <i>Musca domestica L.</i>	2008
12	KN.Selvarani 10MZ08	Thiagarajar college	Polymorphism in shell bands of <i>Cepaea nemoralis</i>	2011

			(Mollusca:Gastropoda)	
13	K.Solai Arasi, 10MZ09	Thiagarajar college	Biomarkers quantification in nickel and zinc exposed bivalves <i>Lamelliden corrianus</i>	2011
14	E. Karthika. Reg No: 30014M14008	Thiruvalluvar University. Vellore.	Molluscicidal activities methonal extract of <i>Leucas aspera</i> in the slug <i>Leavicaulisnalte</i> (Mollusca:Pulmonate)	2014
15	S. Pushpa raj. Reg No: 30014M14010	Thiruvalluvar University. Vellore	Studies on the phytochemical characterization of pergularia daemia and its impact on the ovotestis of <i>Laevicaulis alte</i> (Mollusc:Pulmonate)	2014
16		Thiruvalluvar University. Vellore		2014
17	S. Parasuraman. Reg No:300P14M14005	Thiruvalluvar University. Vellore	Antifungal activities of methonal extract of leaf of <i>catharanthus Roseus</i> against <i>Candida albicans</i> .	2014
18	C. Loga. Reg No: 300P14M14004	Thiruvalluvar University. Vellore	Water quality index related plankton community in the unnamed pond of melvisharam.	2015
19	R. Thirumal. Reg No: 300P14M14010	Thiruvalluvar University. Vellore	Studies on the analysis of physico-chemical parameters and zooplankton assemblage	2015

			in unnamed Eutrophication pond in melvisharam	
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Programmes of Study	Completed	Ongoing
Ph.D	07	04
M.Phil	19	02

## Research Papers

### Details of Published Papers

1. **M.Chandran** and S.Baskaran, 2001.Effect of *Tephrosia purpurea* extract on albumen gland of slug *Laevicaulia alte* [Ferussac] [Mollusca:Gastropoda]. Bionotes3(3).-ISSN-0972-1800
2. P.Murugan and **M.Chandran**, 2001.Studies on the effect of plant extract *Tephrosia purpurea* on the ovotestis of slug *Laevicaulis alte* (Ferussac)[Mollusca:Gastropoda].UttarPradesh.J.Zoology.1 (2):217-220.-ISSN-)256-971X
3. **M.Chandran** and A. Rajkumar, 2001. Morbidity and Mortality among quarry and stone crusher workers of Madurai South Taluk. Nature Environment and Pollution Technology,1(2):217-220.-ISSN-0972-6268
4. **M.Chandran** and SP.Sever Kodiyon, 2003. Molluscicidal activities of plant extract of *Phyllanthus niruri* on Prostate gland of *Laevicaulis alte* [Ferussac] [Mollusca:Gastropoda].J. Experiment. Zoology,6(1):151-156.-ISSN-0972-0030

5. **M.Chandran** and A.K. Kumaraguru, 2003. Influence of varies salinities of the ambient medium on the blood serum osmolality of *Cyprinus carpio*. Indian J. Anim. Res. 37 (2):79-84. **ISSN-0367-6722**
6. K.Pugazhandy, V. Meenakshi, **M.Chandran** and N. Indra, 1999. Enzymatic changes due to chronic effect of mercury chloride in the fresh water fish *Cyprinus carpio* (linn) fingerlings. Sustainable environment (Ed.N. Sukumaran) 209-214.
7. **M.Chandran**, M.Selvaraj and N. Alaguchamy, 2006. Lead toxicity related systolic blood pressure elevation in the painters of Sivakasi town. Poll Res. 25 (2):281-283. **ISSN-0257-8050**
8. N. Alaguchamy and **M.Chandran** (2008) Effect of selected pesticide on Phytoplankton productivity. J. Ecotoxicol . Environ. monit. 18(6)597-601. **ISSN-0971-0965-08-18-597**
9. **M.Chandran**, S. Subbulakhmi, R. Purusothaman, R. Ravichandran and N. Alagusamy (2008). Lead content of blood and hair of Smelters and their impact on hemoglobin and protein content. J. Ecotoxicology . Environ. monitoring. 18(3)217-222. **ISSN-0971-0965-08-18-217**
10. **M.Chandran**, R. Purusothaman, S. Subbulakhmi and R. Ravichandran. Influence of Kadett -36 on the ionic composition of fish *Oreochromis mossambicus*. Ecotoxicology & Environmental monitoring. Palani Paramount. Palani. **ISSN-0971-0965**
11. . Sasireka, H. kanmani and **M.Chandran** (2008). Correlation between air borne fungal spores and lung diseases in Madurai, Tamil Nadu. Bionotes, 10 (2)63. **ISSN-0972-1800**

### **Symposium and seminars attended**

#### **International level and National**

1. A.K. Kumaraguru and **M.Chandran (1995)**, Effect of various osmotic concentration of the ambient medium on the blood serum. Osmolality and haematocrite values of common carp *Cyprinus carpio*. Fourth Asian Fisheries Forum Symposium, Beijing, China. October 1995.
2. KR. Udhayavani, N. Sasirekha, G. Chandran and **M. Chandran** (2010). Heavy metals accumulation level in the milk samples from different locations of Madurai District. National Conference on "Biotechnology Approaches for Sustainable Environment" on 6<sup>th</sup> & 7<sup>th</sup> august 2010 at Department of Biotechnology, JJ College of Arts and Science, Pudukkottai-22.
3. R. Subramanian, M. Mumtaz, M. Poorna rathina priya and **M. Chandran** (2010). Efficiency of *Rhizobium* and *Azotobacter* in the presence of tryptophan the precursor of auxin (indole-3-acetic acid ). International Conference on "Keyrole of life science for Sustainable Development in the

World” on 30<sup>th</sup> & 31<sup>st</sup> August 2010 organised by Department of Life Science, Hindusthan College of Arts & Science, Chennai.

4. N. Sasirekha, G. Chandran, D. Kannammal, KR. Udhayavani and **M. Chandran** (2010). Heavy metals load in Vaigai River near Madurai District. International Conference on “Keyrole of life science for Sustainable Development in the World” on 30<sup>th</sup> & 31<sup>st</sup> August 2010 organised by Department of Life Science, Hindusthan College of Arts & Science, Chennai.
5. KR. Udhayavani, N. Sasirekha, G. Chandran, S. Boominathan and **M. Chandran** (2010) Impact of urbanization on loss of habitation to aquatic animals. International Conference on “Keyrole of life science for Sustainable Development in the World” on 30<sup>th</sup> & 31<sup>st</sup> August 2010 organised by Department of Life Science, Hindusthan College of Arts & Science, Chennai.
6. K. Shameem Rani and **M. Chandran** (2010). Heavy metal range in the different site along the length of kollidam cauvery estuary regions. “Keyrole of life science for Sustainable Development in the World” on 30<sup>th</sup> & 31<sup>st</sup> August 2010 organised by Department of Life Science.
7. G.Chandran, N. Sasirekha, D. Kannammal and **M. Chandran**(2010). Habitation loss for fresh water mollusk in madurai District. “Keyrole of life science for Sustainable Development in the World” on 30<sup>th</sup> & 31<sup>st</sup> August 2010 organised by Department of Life Science, Hindusthan College of Arts & Science, Chennai.
8. R. Subramanian. K. Barathi, K. Shameem Rani and **M.Chandran** (2010). Evaluation of lead degrading capacity of *Arthrobacter* bacterial sp isolated from metal plating industrial effluents. International Conference on food Technology on 30<sup>th</sup> and 31<sup>st</sup> October 2010, Organised by Indian Institute of Crop Processing Technology.
9. K. Shameem Rani and **M.Chandran** (2010). Screening and characterization of bacteriocin produced *vibrio* sp from fishes inhabiting in Cauvery estuary.. International Conference on food Techonology on 30<sup>th</sup> and 31<sup>st</sup> October 2010, Organised by Indian Institute of Crop Processing Technology.
10. N. Sasirekha and **M.Chandran** (2010). Antogonistic activities of bacteriocin produced by lactic acid bacteria isolated from vegetables in the market of Madurai District. International Conference on food Techonology on 30<sup>th</sup> and 31<sup>st</sup> October 2010, Organised by Indian Institute of Crop Processing Technology.



11. N.Sasirekha and **M.chandran** (2010). Dust pollution and incidence of arrhythmia among the road side shop keeper. International congress on Nutrition in Cardiovascular Disease on 15<sup>th</sup> and 16<sup>th</sup> November, 2010. Organized by Annamalai University.
12. G. Chandran, K. Solai Arasi and **M.chandran** (2010). Influence of sprouted bean diet on LDL level and the decline of cardiovascular risks. International congress on Nutrition in Cardiovascular Disease on 15<sup>th</sup> and 16<sup>th</sup> November, 2010. Organized by Annamalai University.
13. K. Shameem Rani and **M.chandran** (2010). PM10 level and prevalence of cardiovascular disease among the stone crusher workers in madurai District. International congress on Nutrition in Cardiovascular Disease on 15<sup>th</sup> and 16<sup>th</sup> November, 2010. Organized by Annamalai University.
14. D. Kannammal and **M. Chandran (2010)**. Mechanism and intermediate host status of *Laevicaulis alte* in spreading of schistosome disease. International Conference biotechnology for better life on 15<sup>th</sup> and 16<sup>th</sup> November 2010. Organized by Kallasillingam University.
15. N.Sasirekha, G.Chandran and **M.Chandran** presented a paper on “Magnesium rich rice bran as a natural food for the treatment of cardio vascular related disease” in the International, Department of Food Science, Periyar University, Salem on 19<sup>th</sup> November’ 2011.
16. N.Sasirekha and **M.Chandran** presented a paper on “Rural methods in the green gram, red gram and black gram preservation and the scientific facts behind them” in the International Conference, Department of Food Science, Periyar University, Salem on 20<sup>th</sup> to 22<sup>st</sup> January’ 2011.
17. N.Sasirekha and **M.Chandran** presented a paper on “Accumulation of heavy metals on the human food chain of the different sites in the Madurai rural District” in the International Conference, Department of Botany, Nirmala College for Women, Coimbatore on 7<sup>th</sup> and 8<sup>th</sup> October’ 2010.

#### PAPERS PRESENTED IN THE NATIONAL SEMINARS AND CONFERENCES

18. **M. Chandran**, K. Pugazhenthii and D. Mahalakshmi (1996). Impact of temperature and salinity on colour changes in *Oreochromis mossambicus* (peter) Lab to land, National symposium. Annamalai University, Annamalai Nagar-8-9 March 1996.

19. S. Vijayalakshmi, **M. Chandran**, Muniyan and S.Hemalatha(1998). Heavy metal pollution in chidambaram town and their positive correlation with fungal assemblage. Environment impact assessment,monitoring and management.State level seminar. Research department of Zoology. Erode Arts college (autonomous),27-28 February 1998.
20. S. Vijayalakshmi, **M. Chandran**, T. Vivekandandan and K. Iyyappan.(1998). Air borne fungal and their related allergic disease at chidambaram town in Tamil Nadu. Environment impact assessment,monitoring and management.State level seminar. Research department of Zoology. Erode Arts college (autonomous),27-28 February 1998.
21. S. Vijayalakshmi, **M. Chandran**, T. Vivekandan, PR. Karpaga Ganapathy (2008). Dust pollution in around the chidambaram town.. Environment impact assessment,monitoring and management.State level seminar. Research department of Zoology. Erode Arts college (autonomous),27-28 February 1998.
22. **M. Chandran**, M. Selvaraj and N. Alaguchamy (2001). Effect of plant extract of *Tephrosia purpurea* on the histology of the prostate gland of the slug *Laevicaulis alte* (Ferussac)(Mollusca: Gastropoda). Molecular Reproduction and biomedicine. Department of Biotechnology and Microbiology. Ayya Nadar Janaki Ammal College. Sivakasi.12-14 October,2001.
23. **M. Chandran**, N. Alaguchamy and P. Murugan (2001). Effect of plant extract of *Tephrosia purpurea* on the glucose and glycogen level of reproductive organs of slug *Laevicaulis alte* (Ferussac)(Mollusca: Gastropoda). Molecular Reproduction and biomedicine. Department of Biotechnology and Microbiology. Ayya Nadar Janaki Ammal College. Sivakasi.12-14 October,2001.
24. A. Soliappan, **M. Chandran** and S. Baskaran (2004). Lead toxicity related hypertension and creatinine level among the printing press workers. Pollution A Death Knell to Environment. State level seminar,Dept of Zoology (Industrial Microbiology)RDGA Govt arts College, Sivagangai,2-3, December,2004.
25. **M. Chandran** and N.Alaguchamy (2004). Lead and cadmium contamination in drinking water of urban, semi urban and rural area of Madurai District. State level seminar, Dept of Zoology (Industrial Microbiology) RDGA Govt arts College, Sivagangai,2-3, December,2004.
26. N. Sasirekha, S. Bhoominathan, R. Subramanian and *M. Chandran* (2010). A study on utilization of weed plants *Ipomea carnea*, *Acalypha indica* and *Ttridex procumbens* in vermicompost production by using earthworm *Eudrilus eugeniae*.
27. KR.Udhayavani, N.Sasirekha, G.Chandran and **M.Chandran** presented a paper on "Heavy metals accumulation level in the milk samples from different locations of Madurai District" in the

National Conference, Department of Zoology & Microbiology, J.J College of Arts and Science, Pudukkottai on 6<sup>th</sup> and 7<sup>th</sup> August' 2010.

28. N.Sasirekha and **M.Chandran** presented a paper on "Heavy metals accumulation in the selected irrigation ponds of Madurai District" in the National Conference, Department of Zoology, Khadir Mohideen College, Adirampattinam on 12<sup>th</sup> and 13<sup>th</sup> February' 2011.
29. N.Sasirekha and **M.Chandran** presented a paper on "Improper utilization of pesticide and heavy metals accumulation risk in agricultural land" in the National Conference, Department of Zoology, Madras University, Chennai on 21<sup>st</sup> and 22<sup>nd</sup> February' 2011.
30. N.Sasirekha and **M.Chandran** presented a paper on "Heavy metals level in the hair samples of Madurai District inhabitants" in the National Conference, Department of Zoology, Annamalai University, Annamalai Nagar on 23<sup>rd</sup> and 24<sup>th</sup> March' 2012.
31. **Dr. M. Chandran** presented a paper on "Therapeutic claims of *Sinhalium sarkkari* obtained from *Tinospora cordifolia* in allergic asthma and bronchitis control" in the International seminar, on Department of Biotechnology, Justice basher ahmed sayeed college for women (Autonomous), Chennai 600 018.
32. N. Bharathi Raja, **Dr. M. Chandran** and R. Yasothavathi and presented a paper on "Antifungal activity of ethanolic leaf extract of *Cassia alata* against two dermatophyte fungus *Trichophyton rubrum* and *Microporum canis*" in the International seminar, Department of Biotechnology, Justice basher ahmed sayeed college for women (Autonomous), Chennai 600 018.
33. R. Yasothavathi, **Dr. M. Chandran** and N. Bharathi Raja presented a paper on "Antifungal activity of ethanolic leaf extract of *Cassia alata* against two skin disease causing fungus *Candida* and *Penicillium notatum*" in the International seminar, Department of Biotechnology, Justice basher ahmed sayeed college for women (Autonomous), Chennai 600 018.
34. K. KaviPriya, D. Kosalai and **Dr. M. Chandran** presented "Screening of genus *Glinus* (Mollugo) for Radical (ROS) scavenging activities" in the National Symposium on Bio diversity feb 18-20, Thiruvalluvar Universtiy, Vellore.
35. Malaiselvi and **Dr. M. Chandran** presented a paper on "Influence of soil type and composition on polymorphism of band pattern in *Trachea vittata* (Mollusc:Pulmonate) in the National Symposium on Bio diversity feb 18-20, Thiruvalluvar Universtiy, Vellore.

36. T. Matharum and **Dr. M. Chandran** presented a paper on “Point and non-point of pollution load and their impact on biotic community of vagai river” in the National Symposium on Bio diversity feb 18-20, Thiruvalluvar Universtiy, Vellore.
37. V.Kousalya and **Dr. M. Chandran** presented a paper on “Evaluation of possibil medicinal uses of eclita prostrate in curing of menstrual disorders” in the National Symposium on Bio diversity feb 18-20, Thiruvalluvar Universtiy, Vellore.
38. N. Bharathi Raja, **Dr. M. Chandran** presented a paper on “Pharmacological screening of corallocarpus epigaes roots for skin disease” in the National Symposium, RABT 2015, 26<sup>th</sup> 27<sup>th</sup> feb 2015, Thiruvalluvar University, Vellore.
39. N. Bharathi Raja, **Dr. M. Chandran** presented a paper on “Evaluation of biosorption potency of eschericha coli and bacilius cereus in chromium removal isolated from the tannery effluent contaminated soil at ranipet” in the International Conference,green energy & green environment, Sri tech-15, Jan 21<sup>st</sup> 2015,Nadar Saraswathi College of arts & science, Theni.

#### **Full Papers presented in conference**

N.Sasirekha and **M. Chandran** (2011)” Heavy metals accumulation in the selected irrigation ponds of Madurai District”. *Pro. Nat. Sem. Emer. Tren. Chal. Aqua. Biotec.* pp: 72-74

Published in International Journals	Published in National Journals	Presented in International Conferences	Presented in National Conferences
02	10	01	02

Funded Research Projects (Completed)

S.No	Agency	Period		Project Title	Budget (Rs.lakhs)
		From	To		
-	-	-	-	-	-

Funded Research Projects (Ongoing)

S.No	Agency	Period		Project Title	Budget (Rs.lakhs)
		From	To		
-	-	-	-	-	-

Consultancy Projects

S.No	Agency	Period		Project Title	Budget (Rs.lakhs)
		From	To		
-	-	-	-	-	-

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Number of Seminars / Conferences / Workshops / Events attended : **40**  
 Number of Seminars / Conferences / Workshops / Events organized : 07  
 Number of Invited / Special Lectures delivered : 01  
 Number of Books / Chapters / Monographs / Manuals written :02

Achievements / Awards / Honours

Membership in Professional / National / International Bodies: ;01

Additional Responsibilities:

Countries Visited:

Others

- Patents - Filed:
- Products developed:

**Books Published : 02**

S.No	Author	Title	ISBN	Publisher	Year of Publication
1	Dr.M.Chandran	Endocrine glands (Tamil)	978-93-80448-13-8	Mauriyar Publications, Madurai-20	2009
2	Dr.M.Chandran &G.Chandran	Key to Insect identification	978-93-80448-14-5	Mauriyar Publications, Madurai-20	2009