

Faculty Profile

Name : Dr M V RADHAKRISHNAN
Designation : ASSISTANT PROFESSOR
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Date of Joining in Collegiate Education : 04.08.2006
Date of Joining in the Present College : 02.02.2016



Academic Profile

Degree	Institute/College	University	Period
Ph.D	Department of Zoology	Annamalai University	1999 - 2002
M.Phil	Department of Zoology	Annamalai University	1998 - 1999
M.Sc	Department of Zoology	Annamalai University	1996 - 1998

Teaching Experience

i) **Total** : 21 Years 05 Months
 ii) **UG** : 21 Years 05 Month
 iii) **PG** : 21 Years 05 Month

Name of the college	Position held	Period
Govt. Victoria College, Palakkad	Lecturer	2002 - 2005
Govt. College Chittur, Palakkad	Lecturer	2005 – 2006
Dept. of Zoology, Annamalai University	Assistant Professor	2006 - 2016
Dept. of Zoology, Chikkanna Government Arts College	Assistant Professor	2016 – to till date

Honors and Research Awards: NIL

Field of Interest

i) **Teaching** : All subjects of UG & PG course ZOOLOGY
 ii) **Research** : Limnology, Environmental Biology, Pollution Biology, Aquatic Toxicology (Invertebrate and Vertebrate), Environmental Impact Assessment, Clinical Biochemistry, Biomarker studies, Enzymology, Physiology, Hematology, Histopathology, Fishery Biology, Aquaculture, Radioactive Pollution and Magnetobiology.

iii) **Proficiency in instrumentation** :

Separation and Purification

Chromatographic Techniques
 Protein Gel Electrophoresis
 DNA Gel Electrophoresis

Centrifuges

Table Top Centrifuges
 Eppendorff Centrifuges
 High Speed Centrifuges
 Ultra Centrifuges

Analytical

Colorimetry
 Spectrophotometry
 Atomic Absorption Spectrophotometer
 Mausebaue Spectroscopy
 Flame Photometer

Miscellaneous

Microtechniques
 Water analysis Techniques
 Biochemical and molecular Techniques
 Photo Microscope

**Research Guidance
Guidance Number**

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title
1.	M.Phil	M.JITHESH	Physico-chemical analysis of Chaliyar River water, Kerala, India
2.	M.Phil	M.A. PUSHPA	Cadmium chloride induced alterations in blood parameters of the freshwater air-breathing fish <i>Channa striatus</i> (Bloch.).
3.	M.Phil	K.MURUGESAN	Estimation of fluoride and Defluoridation of water from in and around Vridhachalam, Cuddalore district.
4.	M.Phil	ATUL GAUR	Effect of cadmium toxicity on carbohydrate metabolism of the freshwater fish <i>Channa striatus</i> (Bloch.)
5.	M.Phil	VINEETA BANERJEE	Seasonal Variations of leucocytes count of <i>Ctenopharyngodonidella</i> (Valenciennes) in Rajnandgaon, Chattisgarh
6.	M.Phil	K. JAGADEESAN	Seasonal variations in water quality parameters of Anaikarai reservoir, Thanjavur district
7.	M.Phil	M.GOMATHI	Biochemical Analysis of sublethal toxicity of nimbicidine to testis of the paddy pest <i>Oxyanitidula</i> (Walker) (Orthoptera ; Acrididae).
8.	M.Phil	K. RAJESHKUMAR	Effect of cadmium on the nutritive value of the freshwater fish <i>Channa striatus</i> (Bloch.).
9.	M.Phil	ARADHANA BASU	Responses of Superoxide dismutase, Glutathione peroxidase and Reduced glutathione antioxidant defenses in the gill of the freshwater fish <i>Channa striatus</i> (Bloch.) against cadmium exposure.
10.	M.Phil	SANJAY CHAVAN PANDIT RAO	Biochemical analysis of acute toxicity of Copper sulphate to the freshwater fish <i>Garra mullya</i> (Sykes).
11.	M.Phil	MD. FAYAZ AHMAD	Biochemical analysis of <i>Nerium indicum</i> leaf extract toxicity to the freshwater fish <i>Channa striatus</i> (Bloch.).
12.	M.Phil	RAJINDER SINGH KAUNDAL	Effect of starvation on Lactate dehydrogenase of the freshwater fish <i>Channa striatus</i> (Bloch.).
13.	M.Phil	N. SUSHA	Bioaccumulation of Cadmium in the respiratory organs of the freshwater fish <i>Channa striatus</i> (Bloch.).
14.	M.Phil	S. SARAVANAKANNAN	Biochemical analysis of Cadmium chloride toxicity to the respiratory organs of the freshwater fish <i>Channa striatus</i> (Bloch.).
15.	M.Phil	GOMATHI SANGARI	The toxicity of <i>Thevetia peruviana</i> latex on Acetylcholinesterase and Acid/alkaline phosphatase level in the freshwater fish <i>Channa striatus</i> (Bloch.).
16.	M.Phil	T. NALINI	Sublethal toxic effect of cadmium on carbohydrate metabolism in freshwater fish <i>Mystus vittatus</i> (Bloch.).
17.	M.Phil	E. SUGUMARAN	Selection of different substrates and their effect on growth and survival of juveniles of the catfish <i>Clarias batrachus</i> (Linnaeus, 1758).
18.	Ph.D	E. SUGUMARAN	Effect of sugarcane bagasse and supplemental feed on growth and production of the cat fish <i>Clarias batrachus</i> (Linn.)
19.	Ph.D	M. JITHESH	Seasonal Variation in Physico-Chemical Factors, Nutrients, Planktonic Population and Distribution of Metals in Chaliyar River Water, Kerala State
20.	Ph.D	AMBILI RAVINDRAN	Haematological, Biochemical and Histopathological Changes in the Catfish <i>Heteropneustes fossilis</i> (Bloch.) Exposed to Vanadium
21.	Ph.D	VIJAYASREE T S	A Study on Water Pollution of Kuttanad River System and its Impact on the Freshwater Fish <i>Channa striatus</i> (Bloch.)
22.	Ph.D	CLARAMMA JOHNSON	Biochemical and histopathological alteration against chromium toxicity in the testis and ovary of the freshwater fish <i>Clarias</i>

			<i>batrachus</i> (Linnaeus, 1758)
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Funded Projects : 01; UGC MAJOR RESEARCH PROJECT , Rs. 9,50, 508/-

Membership in Professional Bodies : NIL

Research Publications :

i) Research Papers : See Annexure – I

Book/Book Chapters

1. E. Sugumaran and M.V. Radhakrishnan, *Environmental Research (Selection of different substrates for the culture of Clarias batrachus larvae under laboratory conditions)*, New Delhi: Excel publishers , 978-93-81361-27-6, pp. 3-6. Mar 2011.
2. M.V. Radhakrishnan and E. Sugumaran, *Advances in aquatic Ecology Vol. 7 (Effect of sugarcane bagasse on growth performance of Clarias batrachus (Bloch.) fingerlings)*, New Delhi: Daya Publishing House, 978-81-7035-820-6, pp. 4-9. Jun 2013.
3. M.V. Radhakrishnan and E. Sugumaran, *Biodiversity: Issues, Impacts, remediation and Significance (Fish diversity as a cue to the fisheries potential of Veeranam Lake, Tamilnadu, India. , New Delhi: V L Media Solutions, 978-93-80820-17-0, pp. 162-166. Mar 2013.*

i) Patent : Nil

National and International Conferences : See Annexure – II

Conference/Seminars Organized :

Workshop attended :

Resource Person/Invited Lectures :

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period

Academic Activities :

- i) Subject Handled
- ii) Class Advisor
- iii) Special Coaching
- iv) Student Community Beneficial Activities
- v) Co-curricular and extra curricular activities

Professional Activities :

- i) Reviewer
- ii) Board of Studies/UR
- iii) Examiner/Scrutiny
- iv) Senate/Syndicate

National/ International Collaborators :

ANNEXURE – I

International Publications

1. Atul Gaur and M.V.Radhakrishnan , ": Alterations in carbohydrate metabolism of the freshwater fish, *Channa striatus* (Bloch.) against sublethal cadmium exposure., 36: 17 – 20, 2009.", *Geobios*, (ISSN: 0251-1223), Volume 36, Number 1, 2009, pp. 17-20. 2009.
2. M.V. Radhakrishnan , "Effect of cadmium on catalase activity in four tissues of freshwater fish *Heteropneustes fossilis* (Bloch.).", *The Int. J. Vet. Med.* (ISSN: 1937-8165). , Volume 7, Number 1, 2009, pp. 1-4. 2009.
3. M.V. Radhakrishnan and E. Sugumaran, "Utilization of Sugarcane Bagasse as a Substrate for Plankton Productivity.", *Recent Research in Science and Technology* (ISSN: 2076-5061), Volume 2, Number 3, 2010, pp. 19-22. 2010.
4. M.V. Radhakrishnan and E. Sugumaran, "Efficacy of Sugarcane Bagasse to produce bacterial biofilm in water for fish culture.", *Journal of Ecobiotechnology* (ISSN: 2077-0464), Volume 2, Number 2, 2010, pp. 41-44. 2010.
5. M.V. Radhakrishnan and S. Hemalatha, "Sublethal toxic effects of cadmium chloride to liver of freshwater fish *Channa striatus* (Bloch.).", *American Eurasian Journal of Toxicological Sciences* (ISSN: 2079-2050), Volume 2, Number 1, 2010, pp. 54-56. 2010.
6. M.V. Radhakrishnan , "Expression of cytochrome P4501A (CYP1A) in fish gill (*Heteropneustes fossilis*) on exposure to aqueous Benzo [a] pyrene. ", *European Journal of Biological Sciences*, (ISSN: 2079-2085), Volume 2, Number 1, 2010, pp. 19-23. 2010.
7. M.V. Radhakrishnan and E. Sugumaran, "Effect of sugarcane bagasse on growth performance of *Heteropneustes fossilis* (Bloch.) fingerlings.", . *Journal of Experimental Sciences*, (ISSN: 2076-5061), Volume 1, Number 1, 2010, pp. 1-2. 2010.
8. M.V. Radhakrishnan , "Polychlorinated Hydrocarbons in Fish *Mugil cephalus* Collected from Cuddalore Coast, Bay of Bengal.", *Global Journal of Environmental Research* (ISSN: 1990-925X), Volume 4, Number 2, 2010, pp. 106-108. 2010.
9. M.V. Radhakrishnan , "Immunological effect of cadmium in *Heteropneustes fossilis* (Bloch.). .", *Global Veterinaria*,(ISSN: 1992-6197) , Volume 4, Number 6, 2010, pp. 544-547. 2010.
10. M.V. Radhakrishnan , "Accumulation of Trace Metals in tissues of *Heteropneustes fossilis* collected from Chaliyar River, Kerala, India.", *World Journal of Fish and Marine Sciences*, (ISSN: 2078-4589), Volume 2, Number 4, 2010, pp. 303-306. 2010.
11. M.V. Radhakrishnan and E. Sugumaran, "Nutrient analysis of Sugarcane Bagasse and its utilization as a Substrate for Fish Culture.", *Geobios* (ISSN: 0251-1223), Volume 37, Number 4, 2010, pp. 249-252. 2010.
12. M.V. Radhakrishnan , "Accumulation and elimination of cadmium in liver and kidney of catfish *Heteropneustes fossilis* (Bloch.).", *International Journal of Life Sciences and Technology*. (ISSN: 0974-5335) , Volume 3, Number 5, 2010, pp. 44-46. 2010.
13. M.V. Radhakrishnan and E. Sugumaran, "Fluctuations in zooplankton density on sugarcane bagasse substrate used for fish culture.", , *American Eurasian Journal of Scientific Research* (ISSN: 1818-6785), Volume 5 (2) 153-156, 2010, Number 2, 2010, pp. 153-156. 2010.
14. M.V. Radhakrishnan and E. Sugumaran, "Effect of sugarcane bagasse and supplemental feed on certain reproductive characteristics of the catfish *Heteropneustes fossilis* (Bloch.).", *Journal of Fisheries International* (ISSN: 1817-3381) , Volume 5 , Number 4, 2010, pp. 58-60. 2010.
15. T. Nalini and M.V. Radhakrishnan, ": Impact of Cadmium on Carbohydrate Metabolism in Catfish *Mystus vittatus* (Bloch.) .", *International Journal of Biological Science and Technology*, (ISSN: 0975-8704), Volume 3 (1) 1 - 10, 2011., Number 1, 2011, pp. 1-10. 2010.

16. M.V. Radhakrishnan , "Cadmium induced histopathological alterations in the kidney of freshwater catfish *Heteropneustes fossilis* (Bloch).", *Egyptian Journal of Aquatic Research* (ISSN: 1687-4285), Volume 37, Number 3, 2011, pp. 261-265. 2011.
17. M.V. Radhakrishnan and E. Sugumaran, "Effect of sugarcane bagasse and supplemental feed on fatty acid composition in the muscle of the catfish, *Heteropneustes fossilis* (Bloch).", *International Journal of Research in Biological Sciences* (ISSN: 2249 - 9687) , Volume 2, Number 3, 2012, pp. 128-131. 2012.
18. E. Sugumaran and M.V. Radhakrishnan, "Selection of different substrate and their effect on growth and survival of juveniles of the catfish *Clarias batrachus* (Linnaeus, 1758).", *International Journal of Fisheries and Aquaculture* (ISSN: 2277 – 7729) , Volume 2, Number 3, 2012, pp. 29-37. 2012.
19. M.V. Radhakrishnan and E. Sugumaran, "Effect of sugarcane bagasse and supplemental feed on nutritional value of the catfish *Heteropneustes fossilis* (Bloch).", *International Journal of Pure and Applied Zoology*, (ISSN 2320–9585), Volume 1, Number 1, 2013, pp. 1-6. 2013.
20. T.S. Vijayasree and M.V. Radhakrishnan, "Fish Diversity of Kuttanad's River System, Kerala State, India", *International Journal of Fisheries and Aquatic Studies* (ISSN: 2347-5129),, Volume 1, Number 6, Dec 2014, pp. 55-58. 2014.
21. M.V. Radhakrishnan and E. Sugumaran, "Morphological and physical analysis of biodegradation of sugarcane bagasse in different media.", *International Journal of Green Chemistry and Bioprocess*, (ISSN: 2277–7199), Volume 4(1): 6-8, Number 1, 2014, pp. 6-8. 2014.
22. E. Sugumaran and M.V. Radhakrishnan, "Effect of Sugarcane Bagasse and Supplemental feed on Length and Weight of the catfish *Clarias batrachus* (Linn.)"., *International Journal of Fisheries and Aquatic Studies*, (ISSN: 2347–5129), Volume , 1(4): 8-11, Number 4, 2014, pp. 8-11. 2014.
23. M. Jithesh and M.V. Radhakrishnan, "SEASONAL VARIATION IN MICROBIAL POPULATION OF CHALIYAR RIVER WATER KERALA, INDIA.", *International Journal of Water Research* , Volume 5, Number 2, Dec 2015, pp. 64-69. 2015.
24. E. Sugumaran and M.V. Radhakrishnan , "Feed utilization, growth and carcass composition of catfish *Clarias batrachus* (Linn.) fed on fish meal replaced by dried chicken viscera incorporated diets.", *International Journal of Research in Fisheries and Aquaculture*, ISSN 2277 – 7729, Volume 5, Number 4, Oct 2015, pp. 143-146. 2015.
25. M.V. Radhakrishnan, "Analysis of oxidative stress in gill and liver of *Oreochromis mossambicus* (Peters) living in the Palaman river Chidambaram, Tamilnadu, India.", *International Journal of Research in Environmental Science and Technology: ISSN 2249 – 9695*, Volume 5, Number 4, Oct 2015, pp. 96-102. 2015.
26. Claramma Johnson and M.V. Radhakrishnan, "Estimation of Acute Toxicity of Chromium to the Freshwater Catfish *Clarias batrachus* (Linn.)"., *International Journal of Research in Environmental Science (IJRES)* (ISSN : 2454 - 9444), Volume 1, Number 2, Sep 2015, pp. 30-37. 2015.
27. M. Jithesh and M.V. Radhakrishnan, "SEASONAL VARIATIONS IN PHYTOPLANKTON POPULATION OF CHALIYAR RIVER, KERALA STATE, SOUTHERN INDIA.", *International Journal of Environmental Biology*, Volume 5, Number 3, Aug 2015, pp. 46-52. 2015.
28. Ambili Ravindran and M. V. Radhakrishnan, "DETERMINATION OF ACUTE TOXICITY OF VANADIUM TO THE FRESHWATER CATFISH *Heteropneustes fossilis* (BLOCH).", *International Journal of Toxicology and Applied Pharmacology*, Volume 5, Number 2, Aug 2015, pp. 14-18. 2015.
29. Claramma Johnson and M.V. Radhakrishnan, "Histopathological Analysis of Chromium Toxicity to Testis of the Catfish *Clarias batrachus* (Linn.)"., *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* (e-ISSN: 2319-2402,p- ISSN: 2319-2399), Volume 10, Number 1, Jan 2016, pp. 1-4. 2016.

National Publications

1. Paul, V.I., M.V. Radhakrishnan and S. Hemalatha, "Turritella attenuata (Kasinathan) as biological indicator of marine pollution – a trace metal analytical study.", *Indian Journal of Experimental Biology*, Volume 37, Number 1, 1999, pp. 1151-1153. 1999.
2. M.V. Radhakrishnan., S. Hemalatha and V.I. Paul, "Effect of cadmium chloride on the melanophores of *Channa striatus* (Bloch.) .", *Indian Journal of Fisheries*, Volume 47, Number 2, 2000, pp. 135-141. 2000.
3. B. Aruljothi, M.V. Radhakrishnan and S. Hemalatha, "Alterations in the dermal melanophores of the freshwater catfish *Mystus vittatus* (Bloch) against lead nitrate toxicity.", *Environment and Ecology*, Volume 23, Number 4, 2005, pp. 796-800. 2005.
4. M.V. Radhakrishnan, B. Aruljothi, and S. Hemalatha , "Cadmium chloride induced toxic effects on the skin of *Channa striatus* (Bloch.).", *Journal of Environment and Ecology*, Volume 24 , Number 1 , 2006, pp. 149-156. 2006.
5. M.V. Radhakrishnan and S. Hemalatha., "Morphometric analysis of sublethal toxicity of cadmium chloride to gills of freshwater murrel *Channa striatus* (Bloch.)..", *Annamalai University Science Journal*, Volume 44, Number 1, 2008, pp. 85-88. 2008.
6. M.V. Radhakrishnan and S. Hemalatha, ": Deterioration of food value of the freshwater fish, *Heteropneustes fossilis* (Bloch.) against sublethal cadmium.", *Journal of Applied Zoological Research* , Volume 201, Number 1, 2008, pp.201-206. 2008.
7. B. Aruljothi, S. Hemalatha, M.V. Radhakrishnan and R. Anandhan, " Toxic effect of lead nitrate on the gills of the freshwater fish *Heteropneustes fossilis* (Bloch.).", *The Bioscan 3(4)*,479- 484, 2008., Volume 3, Number 4, 2008, pp. 479-484. 2008.
8. 4.Pushpa, M.A. and M.V. Radhakrishnan, ":Cadmium chloride induced alterations in blood parameters of the freshwater fish *Channa striatus* (Bloch.) .", *The Bioscan*, Volume 3, Number 4, 2008, pp. 495-499. 2008.
9. K. Murugesan and M.V.Radhakrishnan, ": Estimation of Flouride in water from in and around Vridhhachalam and deflouridation using Amla stem and leaf powder.", *Journal of Environment and Ecology*, Volume 27 , Number 1, 2009, pp. 18-21. 2009.
10. M.V. Radhakrishnan and S. Hemalatha, ": Effect on superoxide dismutase and catalase in erythrocytes of catfish, (*Heteropneustes fossilis* Bloch.) exposed to cadmium.", . *Nature Environment and Pollution Technology (ISSN: 0972-6268)*, Volume 8, Number 1, 2009, pp. 33-35. 2009.
11. P. Gomathi and M.V. Radhakrishnan, " : Biochemical Analysis of Sublethal Toxicity of Nimbecidine to Testis of Rice grass hopper *Oxya nitidula* (Walker) (Orthoptera: Acrididae).", , *Hexapoda (ISSN: 0973-8592) 16 (1): 80 – 82, 2009.*, Volume 16, Number 1, 2009, pp. 80-82. 2009.
12. S.P.Chavan, R.B. Deshai, S.S Jadhav and M.V. Radhakrishnan , "Toxic effect of Copper sulphate on lipid of a freshwater teleost *Garra mullya*.", *Aquacult. (ISSN: 0972-2262)*, Volume 10, Number 2, 2009, pp. 191-193. 2009.
13. S.P.Chavan, R.B. Deshai, S.S Jadhav and M.V. Radhakrishnan , "Effect of Copper sulphate on glycogen in the freshwater fish, *Garra mullya*.", *Aquacult. (ISSN: 0972-2262)*, 10(2): 309 – 311, 2009., Volume 10, Number 2, 2009, pp. 309-311. 2009.
14. M.V. Radhakrishnan , ": Biochemical variations in serum of *Heteropneustes fossilis* (Bloch.) exposed to sublethal cadmium chloride .", *Annamalai University Science Journal (ISSN : 2231 - 0827)*, Volume 46, Number 1, 2010, pp. 57-60. 2010.
15. M.V. Radhakrishnan and E. Sugumaran, ": Effect of sugarcane bagasse on freshwater plankton diversity and dynamics - A laboratory study.", *Journal of Environment and Ecology (ISSN: 0970-0420)*, Volume 28, Number 4, 2010, pp. 2401-2403. 2010.
16. M.V. Radhakrishnan, "Toxicity of nimbecidine on the haemocytes of paddy pest, *Oxya nitidula*.", , *Journal of Entomological Research (ISSN: 0378-9519)*, Volume 34, Number 3, 2010, pp. 205-206. 2010.
17. M.V. Radhakrishnan and E. Sugumaran, "Effect of sugarcane bagasse and supplemental feed on development of the Indian catfish, *Heteropneustes fossilis* (Bloch.).", *Journal of Applied Bioscience (ISSN: 0975-685X) 37 (1) 70-74, 2011.*, Volume 37, Number 1, 2011, pp. 70-74. 2011.
18. E. Sugumaran and M.V. Radhakrishnan, "Selection of different substrates on survival and growth of juveniles of the freshwater catfish *Clarias batrachus* (Bloch.).", *Research Lines (ISSN: 0975-8941)*, Volume 4, Number 1B, 2011, pp. 61-67. 2011.

19. E. Sugumaran and M.V. Radhakrishnan, "Selection of different substrates and their effect on body composition of *Clarias batrachus* fry.", *Biochem. Cell. Arch.* (ISSN: 0972- 5075), Volume 11, Number 1, 2011, pp. 29-32. 2011.
20. M.V. Radhakrishnan and S. Hemalatha, "Bioaccumulation of cadmium in organs of freshwater fish *Heteropneustes fossilis* (Bloch.).", *Indian Journal of Fisheries* (ISSN: 0975-685X) 58(2): 149 - 151, 2011, Volume 58, Number 2, 2011, pp. 149-151. 2011.
21. E. Sugumaran and M.V. Radhakrishnan, "Effect of bamboo substrate on growth and production of *Clarias batrachus* (Bloch.) fingerlings.", , *Uttar Pradesh J. Zool* (ISSN: 0256 – 971X), Volume 31, Number 3, 2011, pp. 339-342. 2011.
22. M.V. Radhakrishnan and E. Sugumaran , "Effect of Sugarcane Bagasse on Growth Performance of *Clarias batrachus* (Bloch.) Fingerlings .", *Journal of Ecology and Fisheries* (ISSN: 0974-6323), Volume 4, Number 2, 2011, pp. 17-22. 2011.
23. E. Sugumaran and M.V. Radhakrishnan, "Selection of different substrate and their effect on on freshwater plankton diversity and dynamics.", , *Research Scholar* (ISSN: 2249 – 6696), Volume 1, Number 1, 2011, pp. 44-49. 2011.
24. M.V. Radhakrishnan and E. Sugumaran , "Effect of sugarcane bagasse and supplemental feed on egg and sperm quality of the catfish, *Heteropneustes fossilis* (Bloch.).", *Journal of Inland Fisheries Society of India* (ISSN:0379 - 3435), Volume 43, Number 1, 2012, pp. 97-101. 2012.
25. E. Sugumaran and M.V. Radhakrishnan, "Effect of different substrates on length-weight relationship of *Clarias batrachus* larvae.", *J. Sci.Trans. Environ.Technov.* (ISSN: 2277 – 7729) , Volume 6 , Number 1, 2012, pp. 22-24. 2012.
26. M.V. Radhakrishnan and E. Sugumaran, "Effect of a biodegradable substrate sugarcane bagasse on egg and sperm quality of the catfish, *Clarias batrachus* (Linn.).", *The Scientific Temper.* (ISSN: 0976-8653), Volume 3(1&2): 69-72, Number 1&2, 2012, pp. 69-72. 2012. 827), Volume 46, Number 1, 2010, pp. 57-60. 2010.
27. Jithesh M and M.V. Radhakrishnan, "On the fishes of Chaliyar River, Kerala State, India..", *Ecology and Fisheries*, Volume 7, Number 2, Dec 2013, pp. 17-24. 2014.
28. E. Sugumaran and M.V. Radhakrishnan, "Impact of different diets on growth performance of Asian catfish *Clarias batrachus* (Linn.).", *Bulletin of Pure & Applied Sciences* (ISSN: 0970 - 0765), Volume 32A (Zoology) , Number 2, 2013, pp. 79-86. 2013.
29. E. Sugumaran and M.V. Radhakrishnan, "Effect of different substrates on rearing performance of *Clarias batrachus* (Linnaeus, 1758).", . *Annamalai University Science Journal* (ISSN: 2231 - 0827), Volume 47: 61 – 64, Number 1, 2014, pp. 61-64. 2014.
30. M.V. Radhakrishnan and S. Hemalatha, "Effect of sublethal concentration of cadmium chloride on Aminotransferases of the freshwater catfish *Heteropneustes fossilis* (Bloch.).", *Annamalai University Science Journal* (ISSN: 2231-0827) , Volume 47, Number 1, 2014, pp. 57-60. 2014.
31. R. Nikhita, R. Srithilak and M.V. Radhakrishnan , "Prevalence of *Paederus* Spp. (Coleoptera; Staphylinidae) and dermatitis in Annamalainagar, Chidambaram, Tamilnadu..", *Journal of Entomology and Zoology Studies* (ISSN:2320 - 7078), Volume 2 , Number 4, 2014, pp. 194-196. 2014.
32. M.V. Radhakrishnan, "Sublethal toxic effects of cadmium on hormonal responses in the freshwater catfish *Heteropneustes fossilis* (Bloch.).", *Annamalai University Science Journal* (ISSN:2231-0827), Volume 49, Number 2, Oct 2015, pp. 93-98. 2015.
33. Ambili Ravindran and M.V. Radhakrishnan, "Biochemical Analysis of Sublethal toxicity of Vanadium to the Gill of the catfish *Heteropneustes fossilis* (Bloch.).", *Ecology and Fisheries* (ISSN:0974-6323), Volume 9, Number 1, Jan 2016, pp. 1-12. 2016.

ANNEXURE – II

International Conference Publications

1. M.V. Radhakrishnan and M. Sabesan, Bioinformatics and In Silico approach in modern drug discovery process, *3rd international conference on bioinformatics and systems biology, Zoology wing- DDE, Annamalai University, Annamalainagar. 16th & 18th February, 2012, Feb 16-18, 2012, Zoology wing- DDE*, pp. 31-0. Annamalai University, Annamalainagar.
2. M.V. Radhakrishnan and M. Sabesan, Protein structure prediction – A Review, *2nd International Conference on Bioinformatics and Systems Biology*, Feb 17-18, 2011, Zoology wing- DDE, pp. 38-0. Annamalai University, Annamalainagar.
3. Chinsu Joy and M.V. Radhakrishnan, A study on yoga practice for slim and trim, *International Conference on yoga, physiotherapy, nutrition and sports for lifelong fitness*, Jan 27-28, 2011, Dept. of Physical Education & Health Sciences, pp. 29-0. Alagappa University, Karaikudi.
4. Vasanthapournima M and M.V. Radhakrishnan, Phylogenetic relationship between two catfishes (*Heteropneustes fossilis* and *Clarias batrachus*) using a nuclear Protein coding Genetic data (GH) retrieved from GENE BANK using a freeware Computational Evolutionary Biology package MEGA,4. , *International Conference on Bioinformatics and Systems Biology*, Feb 19-21, 2010, Zoology wing- DDE, pp. 32-0. Annamalai University, Annamalainagar.
5. Hemalatha S, Anandhan R, B Aruljothi, Radhakrishnan MV and Venmani M, Toxicological effect of lead nitrate on the opercular skin of the freshwater catfish *Heteropneustes fossilis* (Bloch.), *International Conference in Zoology, INCOZ- 2006*, Nov 19-22, 2006, UGC Academic Staff College and Department of Zoology, pp. 32-0. Bangalore University, Bangalore.
6. B. Aruljothi, M.V. Radhakrishnan, R. Anandhan and S. Hemalatha, Toxicological analysis of accessory respiratory organs of *Heteropneustes fossilis* (Bloch.) due to lead intoxication, *International Seminar on Environmental Biotechnology, Envirotech.* , Jul 5-7, 2006, Post Graduate and Research Department of Zoology, pp. 30-0. J.B.A.S. College for Women, Chennai.
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