

Curriculum Vitae

PERSONAL INFORMATION

Name : J.S.I. Rajkumar
Father's Name : I. Joyce Ignatius (An Ex-servicemen)
Date of Birth : 13 Nov1983
Age & marital status : 28 yr; Single
Gender : Male
Nationality/Religion : Indian-Roman Catholic
Community/Caste : BC/ Vellalar
Languages Known : English, Hindi and Tamil.
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EDUCATIONAL QUALIFICATIONS

2009-2011 **Ph.D., Zoology**, Loyola College, University of Madras
2006-2007 **M.Phil., Zoology**, Alagappa University, Karaikudi, 65%
2004-2006 **M.Sc., Zoology**, Loyola College, University Of Madras, Chennai, 81 %
(**First Class with Distinction**)
2001-2004 **B.Sc., Zoology**, Loyola College, University Of Madras, Chennai, 86 % (**Gold medalist: First Class with Distinction**).
2000-2001 SSCE, Kendriya Vidyalaya, Avadi, Chennai, C.B.S.E, 73%.
1998-1999 SSE Kendriya Vidyalaya, Avadi, Chennai, C.B.S.E, 64%.

AWARDS AND HONOURS

1. **B.Sc Zoology, First Rank, Prof. T.N. Anathakrishnan Medal in 2001-2004.**
2. **B.Sc Zoology, First Rank, Irudayanesan Memorial Medal in 2002-2003.**
3. **B.Sc Zoology, First Rank-Part-III in 2001-2002.**

RESEARCH EXPERIENCE

1. Working as *Research Associate* in the GOI-DST sponsored Project on “Potential of Fodder Cultivation as a means of Carbon Capture” in the Department of Livestock Production and Management, Madras Veterinary College, Chennai-600 007 from 01.07.2011 to till date.
2. Worked as *Junior Research Fellow* in Integrated Coastal Marine Area Management, Ministry of Earth Sciences in “Marine Ecotoxicology project” from 03.03.2008 to 03.03.2011.

RESEARCH PAPERS PUBLISHED

1. Robin, R.S, Pradipta, R. Muduli, Vishnu Vardhan, K., **Raj Kumar, J.S.I.**, Prasun Goswami and Balasubramanian, T. 2010. Nutrients and its influence on biological productivity along Kerala coast, India. *International Journal of Current Research*, **10**: 038-045.
2. Robin, R.S., Vishnu Vardhan, K., Pradipta R. Muduli, **J.S.I. Rajkumar** and Swaminathan Palanisami. 2010. Vertical distribution of biological characteristics and phytoplankton community structure in the shelf waters off southwest coast of India. *International Journal of Current Research*, **8**: 016-034.
3. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Analysis of inhibition concentration (IC) of cadmium, copper, lead and zinc in *Mugil cephalus*, *Perna viridis* and *Penaeus monodon* under short-term chronic toxicity tests. *International Journal of Recent Scientific Research*. **2(5)**: 139-142. **Impact factor of 0.271**
4. **Rajkumar, J.S.I**, John Milton, M.C and Ambrose, T. 2011. Seasonal variation of water quality parameters in Ennore estuary with respect to industrial and domestic sewage. *International Journal of Current Research*, **3(3)**: 209-218.
5. **Rajkumar, J.S.I**, John Milton, M.C and Ambrose, T. 2011. Acute toxicity of water borne Cd, Cu, Pb and Zn to *Mugil cephalus* fingerlings. *International Journal of Chemical Sciences*, **9(2)**: 477-480. **Impact factor of 0.067**
6. **Rajkumar, J.S.I** and John Milton, M.C. 2011. Biochemical markers of oxidative stress in *Mugil cephalus* exposed to cadmium, copper, lead and zinc. *International Journal of Pharma and Biosciences*, **2(3)**: 41-50. **IC Value 4.63**
7. **Rajkumar, J.S.I**, John Milton, M.C, Ulthiralingam, M, Azhaguraj, R, Ganesh, J and Ambrose, T. 2011. Toxic effects and bioaccumulation of cadmium, copper, lead and zinc in post larval stages of *Penaeus monodon*. *International Journal of Development Research*, **1(2)**: 001-005.
8. **Rajkumar, J.S.I**, John Milton, M.C and Ambrose, T. 2011. Distribution of heavy metal concentrations in surface waters from Ennore estuary, Tamil Nadu, India. *International Journal of Current Research*, **3(3)**: 237-244.
9. **Rajkumar, J.S.I**, John Milton, M.C and Ambrose, T. 2011. Toxicity of cadmium, copper, lead and zinc to the juveniles of *Perna viridis*. *International Journal of Chemical Sciences*, **9(2)**: 553-556. **Impact factor of 0.067**
10. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Long-term effects of cadmium, copper, lead and zinc exposure on the growth of juvenile green mussel (*Perna viridis*). *International Journal of Recent Scientific Research*. **2(5)**: 132-135. **Impact factor of 0.271**
11. **Rajkumar, J.S.I** and John Milton, M.C. 2011. Biochemical changes induced by cadmium, copper, lead and zinc exposure to *Perna viridis* under long-term toxicity test. *International Journal of Pharma and Biosciences* **2(3)**: 50-59. **IC Value 4.63**
12. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Lipid peroxidation and reduced glutathione as a biomarker in common clam, *meriterix meriterix* to short-term chronic copper exposure. *Asian Journal of Science and Technology*. **2(4)**: 009-012.
13. **Rajkumar, J.S.I**, John Milton, M. C and Arockia Rita, J.J. 2011. Effects of cadmium, copper, lead and zinc on biomarker responses in post larval stages of *Penaeus monodon*. *International Journal of Development Research*, **1(2)**: 006-011.
14. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Chronic toxicity of cadmium, copper, lead and zinc to *Mugil cephalus*, *Perna viridis* and *Penaeus monodon*. *Asian Journal of Science and Technology*. **2(4)**: 005-008.
15. **Rajkumar, J.S.I**, John Milton, M.C and Ambrose, T. 2011. Evaluation of heavy metal

- pollution in the surface sediments of Ennore estuary, Tamilnadu, India. *International Journal of Current Research*, **3(3)**: 219-229.
16. **Rajkumar, J.S.I**, John Milton, M.C and Ambrose, T. 2011. Effects of growth in *Mugil cephalus* exposed to cadmium. *International Journal of Chemical Sciences*, **9(2)**: 615-619. **Impact factor of 0.067**
 17. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Assessment of heavy metals (Cd, Cu, Pb and Zn) in *Mugil cephalus*, *Penaeus indicus* and *Meriterix meriterix* of the Ennore creek, Tamil nadu, India. *International Journal of Recent Scientific Research*. **2(5)**: 126-131. **Impact factor of 0.271**
 18. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Bioaccumulation of some heavy metals Cd, Cu, Pb and Zn in *Mugil cephalus*, *Perna viridis* and *Penaeus monodon*. *International Journal of Development Research*, **1(2)**: 012-017.
 19. **Rajkumar, J.S.I** and Samuel Tennyson. 2012. Predicting NOEC through *Mugil cephalus* exposed to heavy metal concentrations with special reference to Ennore creek, Tamilnadu, India. *Elixir Pollution*, 43: 6859-6864.
 20. Muthuramalingam, T., S. Meenakshi Sundaram, R. Balagopal, **J.S.I Rajkumar** and T. Sivakumar. 2011. Growth pattern of crossbred Holstein Friesian heifer calves in an organized farm. *Scientific Transactions in Environment and Technovation*, **5(2)**:82-85.
 21. **Rajkumar, J.S.I**, John Milton, M.C and Arockia Rita, J.J. 2011. Levels of heavy metals (Cd, Cu, Pb and Zn) in *Perna viridis* and *Mugil cephalus* exposed under static renewal. *Asian Journal of Science and Technology*, **2(4)**: 001-004.
 22. **Rajkumar J.S.I**. 2011. Effects of growth in *Mugil cephalus* juveniles sub-chronically exposed to copper, lead and zinc. *Environmental Science-An Indian Journal*, (TSI), **7 (2)**: 57-61.
 23. **Rajkumar J.S.I**. 2012. Mercury Induced Biochemical Changes in *Perna viridis* Exposed in Chronic Toxicity Test, *Research and Reviews: Journal of Toxicology*, 2(1): 1-7.
 24. **Rajkumar J.S.I**. 2011. Acute toxicity of cadmium, copper, lead and zinc to tiger shrimp *Penaeus monodon* postlarvae. *International Journal of Environmental Studies*. **(Accepted; No: 20111129-1fe3). IC Value 4.69**
 25. R S, Robin, Kanuri Vishnu Vardhan, Muduli Pradipta, **J.S.I, Raj Kumar** and T, Balasubramanian. 2010. Ichthyotoxic dinoflagellate bloom of *karenia mikimotoi* along the southeast Arabian Sea, bordering western India. *Chemistry and Ecology*. **(Accepted – manuscript number GCHE-2010-0135). Impact factor of 0.776**
 26. **Rajkumar J.S.I**. 2012. Effects of heavy metals in growth of tiger prawn, *Penaeus monodon* (fabr.1798)-an effective assessment tool, *Journal of Applied Sciences in Environmental Sanitation* **(Accepted).ICV=6.32**
 27. **Rajkumar J.S.I**. 2012. Marine organisms in toxicological approach for the assessment of environmental risk associated with Cd, Cu, Pb and Zn. *Universal Journal of Environmental Research and Technology (UJERT)* **(Accepted)**.
 28. Sivakumar. T, Thennarasu. A and **Rajkumar J.S.I**, 2012. Effect of Season on the Incidence of Infectious Diseases of Bovine in Tamilnadu. *Elixir Meteorology*. **(Accepted)**

RESEARCH ABSTRACTS PRESENTED

1. Published and presented the abstract titled **Carbon Storage in Soil through Fodder Crops-An Important Tool in Mitigating Climate Change** in the **International Workshop on Climate Change in Agriculture: Adaptation and Mitigation Strategies** organized by the Faculty of Agriculture and Animal Husbandry, Gandhigram Rural Institute-Deemed University, Gandhigram – 624302 from 21st to 23rd March 2012.

2. Published and presented the abstract titled **Fodder Cultivation as a Source of Carbon Capture in Soil for Impeding Climate Change in Agriculture** in the **International Workshop on Climate Change in Agriculture: Adaptation and Mitigation Strategies** organized by the Faculty of Agriculture and Animal Husbandry, Gandhigram Rural Institute-Deemed University, Gandhigram – 624302 from 21st to 23rd March 2012.
3. **Abstract accepted** for presentation in the International Seminar on **“Global Environmental Issues: Challenges to Industry, Ecology and Society”** to be held on December 24-25, 2011 at Skail, Kalyani University Campus, West Bengal, India organized by Integrated Research and Development Foundation (IRDF)
4. Published abstract titled **“Ecological Risk Assessment of Ennore Creek for Mitigating Heavy Metal Pollution”** in the National Conference on Environmental Protection and Management in the Department of Advanced Zoology and Biotechnology, Loyola College, chennai-34 on 29th and 30th August 2011.
5. Published abstract titled **“Sequestering of Atmospheric Carbon Through Sustainable Agriculture for Mitigating Climate Change”** in the National Conference on Environmental Protection and Management in the Department of Advanced Zoology and Biotechnology, Loyola College, chennai-34 on 29th and 30th August 2011.
6. Published abstract titled **“Prediction of Pesticide Toxicity – By Using PASS”** in the National Conference on Environmental Protection and Management in the Department of Advanced Zoology and Biotechnology, Loyola College, chennai-34 on 29th and 30th August 2011.
7. Published abstract titled **“Biochemical Responses of Marine Organisms for Copper in Chronic Toxicity”** in national conference on “Current Trends in Science and Technology” at Madras Christian College from 22nd to 24th January 2009.
8. Participated and presented paper titled **“Comparative Acute Toxicity of Arsenic to Marine Organisms, Asian Green mussel (*Perna viridis*) and Crescent Perch (*Therapon Jarbua*)”** in national conference on “Current Trends in Science and Technology” at Madras Christian College from 22nd to 24th January 2009.
9. Published abstract titled **“Evaluation of antioxidant defence response in *Perna viridis* Linnaeus under chronic mercury exposure: A native Page approach”** in International Conference on Frontiers in Biological Sciences (InCoFIBS-2010) in Department of Life Science, National Institute of Technology, Rourkela from October 01 to 03, 2010.

ARTICLES

1. T. Sivakumar, S. Meenakshi Sundaram, N. Kumaravelu and **J.S.I Rajkumar** titled **“Greening Livestock Production Strategies”**, Science City Newsletter, Vol IX, No.5, and July 2011, **1-2**.

BOOKS / CHAPTERS

1. Contributed in the chapter titled **“Collection, Preservation and Culture of Insects”** of the training manual titled **Perspectives of Animal Taxonomy and Systematic** edited by Dr. M.C. John Milton.

MEMBERSHIPS/EDITOR/REVIEWER

1. **Member-** The New York Academy of Sciences (NYAS)
2. **Reviewer-**Resources and Environment, Scientific and Academic Publishing
3. **Reviewer-** Education in Medicine Journal (EIMJ)
4. **Member-** International Association of Engineers and Scientists (IAEST)
5. **Reviewer-**Journal of Science, Technology and Development (JSTD)
6. **Reviewer-** The Computational Science Education Reference Desk (CSERD)
7. **Member-**The International Society for Ecology (ISE)
8. **Member-**Before Its Too Late Conservation Society
9. **Member-**The European Peptide Society (EPS)
10. **Member-**North Shore Animal League America (NSALM)
11. **Member-**International Global Navigation Satellite Systems (IGNSS)
12. **Member-**The International Society of Exercise and Immunology (ISEI)
13. **Member-**International Society for Molecular Recognition (ISMR)
14. **Member-** British Science Association (BSA)
15. **Member-**International Waterlily and Water Gardening Society (IWGS)
16. **Member-**Central Coast Herpetological Society (CCHS)
17. **Member-**Amazon Community animal Rescue, Education and Safety (CARES)
18. **Member-** Multimedia Educational Resource for learning and Online Teaching (MERLOT)
19. **Reviewer-**Journal of Marine Science and Development, OMICS Publishing Group
20. **Reviewer-**International Journal of Science and Advanced Technology (IJSAT)
21. **Member-**International Phytotechnology Society (IPS)
22. **Member-**International Society for Infectious Diseases (ISID)
23. **Member-**National Wildlife Humane Society (NWHHS)
24. **Volunteer Partner-** International Forensic Sciences (VPIFS)
25. **Member-**International Forensic Sciences (VMIFS)
26. **Reviewer-**Public Journals (Journal of Experimental Sciences)
27. **Member-**International Serpentine Ecological society (ISES)
28. **Member-**American Chemical Society, Environmental Division (ACS)
29. **Editorial Board Member-**International Society of applied Sciences (ISAS)
30. **Review Board-** Chronicles of Young Scientists (CYS)
31. **Member-**International Society of Zoological Sciences (ISZS)
32. **Member-**Society for Asian Scientists and Engineers (SASE)
33. **Member-**Society for Research and Prevention on Environment and Health (SRPEH)
34. **Member-**International Society for Environmental Information Sciences (ISEIS)
35. **Member-**Society for Free Radical Research International (SFRRI)
36. **Member-**International Natural Hygiene Society (INHS)
37. **Member-**Ocean Futures Society (OFS)
38. **Member-**Specific Scientific and Technical Committee and Editorial Review Board in World Academy of Science, Engineering and Technology
39. **Member-**Scientific Transactions in Environment and Technovation
40. **Member-**Science Alert Family, the Asia's Largest Scientific Community
41. **Technical Editor** in
 - Journal of Biological Sciences
 - International Journal of Zoological Research
 - Asian Journal of Animal Sciences
 - Research Journal of Environmental Sciences
 - Research Journal of Environmental Toxicology

WORKSHOPS / TRAINING PROGRAMMES ATTENDED

1. Participated in the UGC sponsored **International Workshop on Climate Change in Agriculture: Adaptation and Mitigation Strategies** organized by the Faculty of Agriculture and Animal Husbandry, Gandhigram Rural Institute-Deemed University, Gandhigram – 624302 from 21st to 23rd March 2012.
2. Participated in DBT sponsored short term training course on **Methods and Protocols for Practical Biotechnology** organized by the school of biodiversity and environmental monitoring, Department of Advanced Zoology and Biotechnology, Loyola College, Chennai-34, from March 14th to 03rd April 2011.
3. Participated in National level training cum workshop on **Recent Trends in Animal Taxonomy and Systematic** from 23rd to 26th Feb 2011 organized by the school of biodiversity and environmental monitoring, Department of Advanced Zoology and Biotechnology, Loyola College, Chennai-34.
4. Completed advanced training programme in **DNA Fingerprinting** in the Department of Advanced Zoology and Biotechnology, Loyola College, Chennai-34 on 18th Dec 2009.
5. Underwent workshop programme on **Marine Ecotoxicology** in Integrated Coastal Marine Area Management, Ministry Of Earth Science, Pallikaranai, Chennai-600100, 2008.
6. Underwent workshop programme in **Bioinformatics – Vector Control**, IICT-2006.
7. Underwent a workshop programme in **Cattle Management and Fodder Production**, Govt. Of India-2004.

PROJECTS COMPLETED

1. Ph.D-entitled ‘Ecological Risk Assessment of Ennore Creek to Develop Safety Limits for Cu, Cd, Pb and Zn with *Mugil cephalus* (Linn.), *Perna viridis* (Linn.) and *Penaeus monodon* (Fabr.)’, 2011.
2. M.Phil-entitled on ‘Mosquito Larvicide Abate Induced Haematological Responses of Grass carp *Ctenopharyngodon idellus*’ (HOWES, 1981) in 2007.
3. M.Sc-entitled ‘Study on Municipal Solid Waste Management in Chennai’-2006.

SYMPOSIA / CONFERENCES PARTICIPATED

1. Participated in the National Conference on Environmental Protection and Management in the Department of Advanced Zoology and Biotechnology, Loyola College, Chennai-34 on 29th and 30th August 2011.
2. Participated in the celebrations of the Bicentennial Birth Anniversary of Charles R. Darwin & 150th Anniversary of ‘on the Origin of Species.’ and Seminar on ‘Charles R. Darwin: The Intellectual Revolution’ in the Department of Advanced Zoology and Biotechnology, Loyola College, Chennai-34 on 8th and 9th February 2010.
3. Participated in state level symposium on Role of Laboratories in Trauma Care and Pre-Emptive Prevention of Human Diseases on 17th and 18th Dec 2008.
4. Participated in national conference in “Biodiversity”-2006.
5. Participated in state level symposium in “Hitech and Instrumentation in Medical Laboratory Technology for Diagnosis of Human Diseases”-2004.
6. Participated in state level seminar in “Urban Environment Impact Assessment” -2004.
7. Participated in national seminar in “Healthy Environment for the Next Generation”-2004.
8. Participated in state level conference in “HIV/AIDS Awareness for College Students”-2003.

9. Participated in state level seminar in “Poultry”-2003.
10. Participated in national conference in “Management of Natural Resources for Our Sustenance”-2002.
11. Participated in seminar in “Poultry for Sustainable Food Production and Livelihood”-2001.

SOCIAL ACTIVITES

1. Won third price in exhibition in departmental festivals -2005.
2. Participated in Community Service Camp at Chengalpet –Loyola College 2004.
3. Involved in community service “Men and Women for Others”, Loyola College, 2002-2003.
4. Active member of the organizing committee of ZALC, Loyola college-2002.
5. Organized Animal Welfare quiz competition (NSS)-2002.
6. Participated in Cycle Rally Titled Anti-Terrorism (NSS)-2002.
7. Participated in Medical Project at Govt-Pheripheral Hospital, 2001-2002.
8. Participated in exhibition and as a volunteer in departmental festivals, 2001-2002.
9. Participated in crossword and won third price in exhibition, 2001-2002.

DECLARATION:

I hereby declare that the above stated particulars are true.

Place : Chennai-600055

Date : 07.05.2012

(J.S.I.RAJKUMAR)