

**Dr.R.SARAVANAN**

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**NAME** : **R. SARAVANAN**

**FATHER'S NAME** : Late Mr.V. RAMACHANDRAN

**SEX** : Male

**DATE OF BIRTH** : 02.06.1968

**AGE** : 48 yrs

**RESIDENTIAL ADDRESS** : Tower 21 Flat no 301  
Sky City Apartments  
Vanagaram -Ambattur Road  
Chennai 600095

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Date of Joining in TN.  
Collegiate Educational Service : 9.7.2009  
Designation : Assistant Professor  
Department : Department of Advanced Zoology  
Specialization : Toxicology and biochemistry  
Research Field : Biochemistry

**EDUCATIONAL QUALIFICATION**

<b>CORE SUBJECTS</b>	<b>SCHOOL / COLLEGE/UNIVERSITY</b>	<b>YEAR OF PASSING</b>	<b>% MARKS CLASS OBTAINED</b>
Higher Secondary (+2) Physics/Chemistry Botany/Zoology	Don Bosco Matriculation Higher Secondary School, Egmore, Chennai-8	March 1986	73.5 (1 <sup>st</sup> Class)
B.Sc (Zoology)	Vivekananda College, Chennai (Madras University)	March 1989	70 (1 <sup>st</sup> Class)
M.Sc (Zoology)	Pachaiyappa's College, Chennai (Madras University)	March 1991	58.4 (2 <sup>nd</sup> Class)
M.Phil (Endocrinology)	Dr.A.L.M. post graduate institute of basic medical science Taramani, Chennai (Madras University)	September 1992	62.3 (1 <sup>st</sup> Class) Thesis -Highly Commended
B.Ed	Annamalai University	May 1995	65 (1 <sup>st</sup> Class)
Diploma in Nutrition And Health Education	Indira Gandhi National Open University, New Delhi	December 1998	76.5 (1 <sup>st</sup> Class) (Gold Medalist)
P.G. Diploma in Bioinformatics	Bioinformatics Institute of India, Noida	November 2003	77.75 (1 <sup>st</sup> Class)
Ph.D. (Zoology - Toxicology)	International Institute of Biotechnology and Toxicology, Padappai (Madras University)	January 2007	Commended

**Computer courses completed**

- ◆ Certificate Course in PC utilities (Word Star, Lotus, 1-2-3, d-base)
- ◆ Diploma course in MS Office (MS Word, Excel, Powerpoint, Access)

### **M.Phil Project**

- ◆ "Effect of ethanol intoxication on lipid profiles of albino rats".

### **Research Experience**

- ◆ Worked in a project "Dynamics of endocrine and biochemical marker in male diabetics" at DR. ALMPGIBMS from May 1993 to May 1995 in the Department of Endocrinology University of Madras, Taramani campus, Chennai-113

### **Project Report Submitted to IGNOU for DNHE Programme**

- ◆ "A case study of habitual dietary pattern of the families of building construction workers in Central Chennai".

### **Bioinformatics Project**

- ◆ "Usage of bioinformatics tools" Phylogenetic and molecular analysis of huntington gene" submitted to Bioinformatics Institute of India, Noida For PG diploma in bioinformatics.

### **Ph.D Project**

- ◆ "Synthetic Pyrethroid toxicity on catfishes".

Lambda cyhalothrin induced biochemical, enzymological and histological alterations in various tissues of fresh water catfish *Clarias batrachus*

### **Teaching Experience**

- ◆ A total of 19 years of teaching experience at Under Graduate and 7 years at Post Graduate level .

### **Teaching Experience**

1. Worked as Lecturer in Zoology, Department of Biochemistry/Botany/Biotechnology , D.G. Vaishnav College, Chennai – 106 from 18-07- 1996 to 24-01-2008
2. Worked as Lecturer in Zoology, Department of Zoology R.K.M.Vivekananda College, Chennai –25-01- 2008 to 08- 08- 2009
3. Assistant professor in Zoology, A.A. Government Arts college Villupuram from 09-07 2009 to 15 -07- 2010
4. Assistant Professor , Department of Zoology ,Thiru kolanjiappar Government Arts college, Vridhachalam 606001 from 16 -07-2010 to 17-02- 2011
5. Assistant Professor , Department of Zoology .Aringar Anna Government Arts college, Cheyyar from 18-02-2011 to 13-08- 2012
6. Presently working at PG dept of Zoology , Dr Ambedkar Government Arts college, Chennai-39 from 14-08-2012 – till date

### Subjects Handled

- Allied Zoology, Physiology , Bioinformatics, Cell and Molecular biology, Genetics, Developmental biology for UG (Zoology)
- Cell Biology, Molecular Developmental Biology for B.Sc (Biotechnology)
- Biotechnology, Physiology, Biochemistry, Immunology and Endocrinology for PG (Biochemistry/Zoology) classes.

### Counsellor for IGNOU Diploma and Bachelor's Degree Programme- At DG VAISHAV COLLEGE STUDY CENTRE.

- ◆ Diploma in Nutrition and Health Education (DNHE)
- ◆ Diploma in Early Childhood Education (DECE)
- ◆ B.Sc (Life Science- Zoology)

### Research Guideship

- ◆ Research guide for M.Phil (Biotechnology) programme, Bharathidasan University, Tiruchirapalli and Manonmani Sundaranar University,Thirunelveli

### UGC MINOR PROJECT

**“Phytoremediation of tannery effluent using *Pongamia glabra* and *Eicchornia crassipes* and its effect on freshwater fish *Channa striatus*” ” UGC MINOR RESEARCH PROJECT- amount of Rs.5 00 000 LAKHS-sanctioned in November – 2014 grants received - JANUARY 2015**

### PAPER PUBLICATIONS

1. **R.Saravanan**, J. Saratha, K.Balasubramanian, J.Arunakaran and P.Govindarajulu, 1994. Ethanol induced changes in prostatic lipid profile of albino rats. *Biochem and Mol Bio International* , 32 (2), 387-398
2. **R.Saravanan** , Gautham, S and Veronica Michael , 2003. Phylogenetic analysis and secondary structure prediction of huntington molecule. *Bioinformatics India* 1(3), 23 – 28.
3. K.Revathi, Anuradha V and **Saravanan R**, 2004 Analysis of lipid contents in hemolymph, hepatopancreas and muscle of male and female *Penaeus indicus*. *Biochem cell arch* 4(1), 37-39.
4. **R.Saravanan**, Usha Nandini and K.Revathi, 2004 . Toxicity of lindane in biochemical composition of hemolymph, hepatopancreas and muscle of marine shrimp *Penaeus indicus*. *J Curr Sci* 5 (1) 123-126.
5. K.Revathi, Anuradha V and **Saravanan R** 2004. Comparative study of carbohydrates in hemolymph, hepatopancreas and muscle of *Penaeus indicus*. *Biochem cell arch* 4 (1) 41-43.
6. K.Revathi , **Saravanan, R** and Anuradha V , 2004. Sex related variation in protein contents of hemolymph, hepatopancreas and muscle of marine shrimp *Penaeus indicus*. *Indian J Environ and Ecoplan* 8(1) 237 - 239.
7. **R.Saravanan**, Usha Nandini and K.Revathi, 2004 . Effect of lindane toxicity in

carbohydrate content of hemolymph, hepatopancreas and muscle of *Penaeus indicus*. *J Appl Zool Res* 15(2) 210 -212.

8. Jeba Sheja, Sheela Sasikumar S, Subramaniam S and **Saravanan R** , 2004. Occupational toxicity of Phenol, benzene and toluene among industrial employees. *J Curr Sci* 5(2) 759-762.
9. Maya R Bash, Bhavani R, **Saravanan R** and K.Revathi 2005 . Studies on the effect of catharanthus root alkaloids on the biochemical constituents of *Eupterote mollifera*. (Bombycidae: Lepidoptera) *J Exptl Zool India* 8 (2) 425 - 428
10. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2007. Lambda cyhalothrin induced changes in nucleic acid dynamics in freshwater catfish *Clarias batrachus*. *J.Exp.Zool.India* 10 (2) 385-389
11. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2008. Glutathione status and lipid peroxidation in freshwater catfish *Clarias batrachus* exposed to synthetic pyrethroid lambda cyhalothrin *Ekologia* 7 (2) , 1-8
12. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2008. Lambda cyhalothrin induced alterations in antioxidant enzyme status of various tissues in fresh water catfish *Clarias batrachus*. *Asian Jr of Microbiol. Biotech. Env. Sci* 10 (2) 341-349
13. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2008. Effect of lambda cyhalothrin on the activity of steroidogenic enzymes in testis and seminal vesicle of freshwater catfish *Clarias batrachus* *J. Appl. Zool. Res* 19(1) 77-81
14. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2008. Effect of lambda cyhalothrin a synthetic pyrethroid on some of the blood antioxidants in freshwater catfish *Clarias batrachus* (Bloch) *Poll Res*, 27 (2) 83-87 **Scopus H index-17, NAAS rating- 4.75**
15. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2008 . Lambda cyhalothrin induced changes in oxidative enzymes of various tissues in freshwater catfish *Clarias batrachus* (Bloch) *Poll Res* 27 (3) ,377-385 **Scopus H index-17,NAAS rating- 4.75**
16. **R.Saravanan** , 2008. Lambda cyhalothrin induced changes in protein metabolism of various tissues in freshwater catfish *Clarias batrachus*. *Nat.Env.Poll.Tech* 7(4), 579-584
17. R,Muthulakshmi, Binduja M D , Revathi K and **R.Saravanan**, 2008 .Induced effect of organophosphate pyrethroid combination in Freshwater fish Rohu (*Labeo Rohita*) *Indian J Environ and Ecoplan* 15(1-2) 199 - 206
18. **R.Saravanan**, K.Revathi and P.Balakrishna Murthy , 2009 .Lambda cyhalothrin induced alterations in endocrine dynamics of fresh water catfish *Clarias batrachus*. *J.Environ.Biol* 30 (2), 265-270. **SJR-0.48, Impact factor-0.68, NAAS rating-7.1**

19. **R.Saravanan**, 2010. Effect of lambda cyhalothrin on lipid profiles in reproductive tissues of freshwater catfish *Clarias batrachus*. *Geobios* , 37 (2-3), 171-175
20. **R.Saravanan**, Sivachandran R, Muthulakshmi R and Revathi K , 2013. Comparitive analysis of fatty acid profiles in cultivable freshwater fishes . *Eco Env and Cons* , 19(3) 739-742. **Impact Rating 3.5 (NAAS- 2013) Scopus 'H' Index-8**
21. **R.Saravanan**, Sivachandran R and Revathi K , 2013 . Synergistic effect of organophosphate chlorpyrifos and synthetic pyrethroid cypermethrin in freshwater commercially cultivable fish *Labeo rohita*. *Environment Conservation Journal*, 14 (1 & 2) 33-39. **Impact factor 0.58**
22. Punitha .N., Shettu.N., Subramanian. N., **Saravanan.R.** 2014 Effects of *Carica papaya* fruit pulp extract on biochemical constituents of testis in male albino Rats. *International Journal of Development Research*. **4(5)**, 1056-1058  
Impact factor-
23. Sivachandran R, Mazher Sultana, **R.Saravanan** and S.Malathy 2014. Tannery effluent induced DNA damage in liver and testis of freshwater fish *Channa striatus*. *Asian Journal of Science and Technology* **5(7)**, 427-430
24. Ramalaksmi P, Subramanian N and **Saravanan R** 2014. Antimicrobial activity of *Coleus amboinicus* on six bacterial strains. *Int J of Current Research* 6(11) ,9909-9914 **STIF Scientific Journal Impact factor (2012 – 3.845) Index Copernicus value - 2012 (6.24)**
25. Ramalaksmi P, Subramanian N ,**Saravanan R**, Mohana Krishnan H and Muthu M 2014. Anticancer effect of *Coleus amboinicus* (Karpooravalli) on human lung cancer cell line (A 549) *International Journal of Development Research*. 4 (11), 2442-2449. **Global Impact factor (2013-0.471)**
26. **Saravanan R**, Gnanavel K and Purushothaman K 2015 . Studies on the nutritive values and fatty acid contents in fingerlings of *Catla catla* fed on traditional diet and freeze dried tubifex . *International journal of Information Research and Review* , **2(5)**, 726-733
27. Samyappan K, **Saravanan R**, Vijaykanth T and Prabakaran D 2015. Impact of unilateral eyestalk ablation on lipid profiles in freshwater female crab *Oziotelphusa senex senex*. *Asian journal of Science and Technology*, **6(5)**, 1474-1478
28. Samyappan K, **Saravanan R**, and Chitra N 2015. Copper induced modulation in the activity of gill ATPases in fingerlings of freshwater fish *Oreochromis mossambicus*. *International journal of current Research* , **7(5)**15521-15525
29. Punitha N , **Saravanan R** and Shettu N 2015.Effect of seeded and seedless *Carica papaya* fruit extracts on the histoarchitecture of reproductive structures in male albino rats. *International journal of Recent Advances in*

*Multidisciplinary Research*, **2(6)**, 490-495

30. Punitha N, **Saravanan R** and Shettu N 2015 Effect of semiripe *Carica papaya* fruit extracts on the reproductive structures in female albino rats-An histological study. *International journal of Current research in Life Sciences*, **4(6)**, 241-245
31. **Saravanan R**, Venkatesan S and Revathi K 2015. Histological studies on the combined effect of synthetic pyrethroid lambda cyhalothrin and organophosphate chlorpyrifos on reproductive tissues in freshwater cultivable fish *Clarias batrachus*. *International Journal of Developmental research*, **5(6)**, 4549-4553 .

#### **Seminars / Conferences / Workshops attended**

1. Seminar on **“Recent trends in Endocrinology and Reproduction”** organised by Department of Endocrinology, Dr. ALMPGIBMS, Madras University - March 5<sup>th</sup> and 6<sup>th</sup> 1992.
2. Silver Jubilee **“International Conference on Molecular and Metabolic Endocrinology and Contraceptive Technology”** organised by Department of Endocrinology, ALMPGIBMS, Madras University at Triple Helix Auditorium ,CLRI Chennai on 21<sup>st</sup> and 22<sup>nd</sup> October 1994.
3. Symposium on **“Current Trends in Medical Laboratory Technology in Diagnosis of Human Disease”** Organised by Loyola Institute of Vocational Education (LIVE), Loyola College - February 24<sup>th</sup> 2001.
4. National Seminar on **“Environmental Biotechnology- ENVIROTECH 2003”** conducted by PG and Research, Department of Zoology, JBAS College Chennai – on 29<sup>th</sup> and 30<sup>th</sup> December 2003 sponsored by DBT,CSIR,DST,UGC, New Delhi and Science City ,TNSCST,Chennai
5. National Seminar on **“New Frontiers in Marine Biosciences Research”** jointly organised by National Institute of Ocean Technology and Society of Biosciences, Chennai on 22<sup>nd</sup> and 23<sup>rd</sup> January 2004.
6. Regional Seminar on **“Promises and Perils in Biotechnology”** organised by Department of Advanced Zoology and Biotechnology, Women's Christian College, Chennai from 8<sup>th</sup> to 10<sup>th</sup> December 2004 sponsored by UGC
7. National Symposium on **“Microbial and Plant Biotechnology”** organised by Department of Plant Biology and Biotechnology, Loyola College, Chennai , from

17<sup>th</sup> to 19<sup>th</sup> February 2005.

8. National Conference on “**Biodiversity**” organized by School of Entomology and Centre for Natural resources Management (SECNARM) and National Biodiversity Authority, Government of India conducted by PG and Research Department of Advanced Zoology and Biotechnology, Loyola College, Chennai – on 30<sup>th</sup> and 31<sup>st</sup> January 2006.

9. National Conference on “**Current Perspectives in Aquatic Biology**” organised by Department of Zoology, University of Madras, Guindy campus, Chennai on 17<sup>th</sup> and 18<sup>th</sup> March 2006.

10. National seminar on “**Disease control Priorities in India**” organized by PG Department of Microbiology, D.G Vaishnav College, Chennai from 8<sup>th</sup> to 10<sup>th</sup> January 2009

11. National Conference on **Scientific challenges for a Clean Environment organized** by Guru Nanak College, Velachery, Chennai on 30<sup>th</sup> and 31<sup>st</sup> March 2015.

#### **TRAINING PROGRAMME / WORKSHOP ATTENDED**

1. Two months Training Programme on “**Bioinformatics**” at India Technologies Private Limited, Chennai from 1<sup>st</sup> March to 30<sup>th</sup> April 2003
2. Hands on Training Programme in “**Techniques in Plant Tissue Culture**” organised by Centre for Advanced Studies in Botany, University of Madras, Guindy campus 17<sup>th</sup> to 21<sup>st</sup> May 2004.
3. Training Programme on “**Bioinformatics and Information Technology**” conducted by Bioinformatics Centre and ARIS cell, Madras Veterinary College sponsored by Department of Biotechnology, Government of India, New Delhi from 22<sup>nd</sup> to 26<sup>th</sup> November 2004.
4. Participated in 6<sup>th</sup> **All India Summer Research Training Programme on “Molecular Techniques”** conducted by PG and Research Department of Microbiology and Biotechnology, Sengunthar College of Arts and Science, Tiruchengode, Nammakal District from 19-05-2008 to 02-06-2008 sponsored by TNSCST, Chennai and NCSTC, New Delhi.
5. Participated in Summer course on “**Electrophoresis Techniques**”, The



Electrophoresis Institute (Biotech -India) Yercaud, Salem District from 21<sup>st</sup> to 30<sup>th</sup> May 2009.

6. Workshop for Government college teachers on **“Major and non major elective subjects in Zoology”**- conducted by Tamil Nadu State Council for Higher Education and Post graduate and Research Department of Zoology, Government College for Men, Nandanam, Chennai from 16<sup>th</sup> to 18<sup>th</sup> December 2009

7. **5<sup>th</sup> National Training Workshop on “Immunological techniques”** at Centre for Fish Immunology, PG Department of Zoology and Biotechnology, Lady Doak College, Madurai sponsored CSIR, DBT, ICMR, NCSTC –New Delhi and TNSCST, Chennai from 03<sup>rd</sup> to 15<sup>th</sup> May 2010.

8. Workshop on **“Innovative Methodologies in Teaching of Life Sciences and Biomedical Science Laboratory courses”** conducted by Aringar Anna Government Arts College, Cheyyar sponsored by MGDC, Bharathidasan University on 08-03-2012.

9. One day workshop on **“New Technologies for productive fish culture”** organized by Tamil Nadu Veterinary and Animal Sciences University, Fisheries Department Madhavaram held at TANUVAS campus, Veperiy, Chennai on 21-01-2013

10. Two day workshop cum training programme on **Fish cell culture Techniques** conducted by Department of Ocean Research, Sathyabama University in collaboration with National Institute of Ocean Technology (NIOT), Pallikaranai, Chennai on 3<sup>rd</sup> and 4<sup>th</sup> November 2015.

#### **PAPER PRESENTATION**

*Effect of ethanol intoxication on seminal vesicles of albino rats* – XI National Symposium on **“Reproductive Biology and Comparative Endocrinology”** organised by Department of Zoology, SV University, Tirupathi and Society of Reproductive Biology and Comparative Endocrinology on 29<sup>th</sup> and 30<sup>th</sup> January 1993.

*Testicular lesion in prepubertal and pubertal streptozotocin induced diabetic rats* - XII National Symposium on **Comparative Endocrinology and Reproductive Biology** - organised by Department of Zoology, Osmania University, Hyderabad and Society of Reproductive Biology and Comparative Endocrinology on 27<sup>th</sup>

and 28<sup>th</sup> January 1995.

*Nutritional importance of biochemical constituents in poultry products* – “**State Level Seminar on Poultry**” conducted by PG and Research Department of Zoology, Loyola College, Chennai from 1<sup>st</sup> to 3<sup>rd</sup> December 2003.

*Air pollutants and their biological effects* - 3<sup>rd</sup> International Conference on “**Environment and Health**” organised by Department of Geography, University of Madras, Chennai from 15<sup>th</sup> to 17<sup>th</sup> December 2003 (Poster Presentation).

*Toxicity of lindane in carbohydrate contents of haemolymph, hepatopancreas and muscles marine shrimp *Penaeus indicus** - National Seminar on “**Healthy Environment for the Future Generation**” conducted by PG and Research Department of Zoology, Loyola College, Chennai from 2<sup>nd</sup> to 4<sup>th</sup> December 2004.

*Enzymatic changes in cultivable catfish *Clarias batrachus* on exposure to lambda cyhalothrin* – 25<sup>th</sup> Annual Session of the Academy of Environmental Biology and National symposium on “**Recent Trends in Environmental Biology and Biotechnological Approach to Conserve Biodiversity**” conducted by Department of Zoology, Gulbarga University, Gulbarga from 22<sup>nd</sup> to 24<sup>th</sup> October 2005.

*“Protein changes in various tissues of catfish exposed to synthetic pyrethroid lambda cyhalothrin”*- State level Seminar on **Water Pollution and Management** sponsored by TANSCH, Chennai at Vivekananda College, Agasteeswaram, Kanyakumari on 5-02- 2010

Presented a paper entitled “**Protein changes in various tissues of catfish exposed to synthetic pyrethroid lambda cyhalothrin**”- State level Seminar on Water Pollution and Management sponsored by TANSCH, Chennai at Vivekananda College, Agasteeswaram, Kanyakumari on 5-02- 2010

Presented a paper entitled “ **Effect of *Carica papaya* extracts on sperm parameters in albino rats**”. National Symposium on Biodiversity (NSBIO 2015) organized by Department of Zoology, Thiruvalluvar University, Vellore from 18<sup>th</sup> -20<sup>th</sup> February 2015 sponsored by DST-SERB.

Presented a paper entitled **Impact of Tannery effluent on lipid profiles of liver in freshwater fish *Channa striatus*** . State level Seminar on Environmental Conservation and Water Resource Management held on 29<sup>th</sup> and 30<sup>th</sup> January 2015 organised by Post Graduate and Research Department of Zoology, Government Arts College, Nandanam, Chennai . Sponsored by

**SEMINARS ATTENDED ON ISSUES OF HIGHER EDUCATION**

1. National Seminar on **“Higher Education in the 12<sup>th</sup> Five year plan- Agenda, Role of Teachers and Teachers’ Movements”** Organised by AIFUCTO and M.G. Kashi Vidyapith Affiliated College Teachers Association at Sanskrit University , Varanasi on 16<sup>th</sup> and 17<sup>th</sup> December 2012
2. National Seminar on **“Changing Paradigms of Higher Education” : XII Five Year Plan Initiatives**, Organised by AIFUCTO and AMUCT at St Aloysius College, Mangalore on 1-12- 2013
3. National Seminar on **“Quality in Higher Education- Issues and Challenges”** organized by Punjab and Chandigarh College Teachers from November 14<sup>th</sup> to 16<sup>th</sup> 2014 at GGSDS College ,Chandigarh
4. National Seminar on **New higher education policy: Challenges and Prospects** organized by Gujarat University from 18-20<sup>th</sup> December 2015.

**Participated as Judge:**

Science Exhibition conducted by Tamilnadu School Education Department – District Level at Chengalpet Girls Higher Secondary school -09.09.2015

**ORIENTATION /REFRESHER COURSE ATTENDED**

1. Orientation course (Intensive Training Programme) conducted by TANSCHS and UGC-ASC University of Madras from 09. 07. 2009 to 05. 08. 2009 for newly recruited Government college teachers.
2. Refresher course in Zoology conducted by UGC-ASC, Bharathiar University Coimbatore from 20. 01. 2012 to 09. 02. 2012

**Life Member**

Indian Science Congress Association (ISCA)- Membership No L 24764