

Faculty Profile

S.No	Name of the Faculty	E-mail ID	Area of Interest
1	Dr. Sarah Sathyavathi, M.Sc., M.Phil., Ph.D. Associate Professor	Sarah.satvavathi@gmail.com sarahsathyavathy@ldc.edu.in	Solid waste Management, Environmental Biotechnology
2	Dr. Shenbagarathai M.Sc., Ph.D. Associate Professor	shenbagarathai@rediffmail.com	Microbial Biotechnology
3	Mrs. Priyatharsini M.Sc., M.Phil. (Ph.D). Assistant Professor	rajendranpriya@yahoo.com privatharsinirajendran@ldc.edu.in	Immunology & Environmental Toxicology
4	Mrs. A.P.A.Rani, M.Sc., M.Phil.(Genetics), (Ph.D). Associate Professor	earani@gmail.com earani@rediffmail.com aparani@ldc.edu.in	Genetics, Genotoxicity
5	Mrs. B. Shanthi, M.Sc., M.Phil. Associate Professor	shanthygvs@gmail.com shanthi@ldc.edu.in	Physiology, Entomology
6	Dr. A.S. Priscilla, M.Sc., Ph.D. Assistant Professor	priscilla_as@yahoo.com priscilla@ldc.edu.in	Immunology
7	Mrs. A. Lourdh Mary M.Sc., B.Ed., M.Phil., (Ph.D) Assistant Professor	lourdhumary@ldc.edu.in	Molecular Biology
8	Dr. K. Sujatha M.Sc., Ph.D	sujathakabilan@yahoo.co.in	Microbiology, Bio-polymers
9	Dr. A. Mahalakshmi M.Sc., Ph.D	mahalakshmi2006@gmail.com	Microbiology, Bioinformatics
10	Ms. S. Amala Rani, M. Sc., M.Phil Assistant Professor	Amala.bio@gmail.com amalarani@ldc.edu.in	Environmental Biology

Dr. Sarah Sathyavathi, M.Phil. Ph.D

Associate Professor,

Department of Zoology

Area of Specialization / Area of Interest - Vermitechnology – Solid Waste Management

Ph.D Topic “Vermicomposting as a Method of Biosolids Management” – Completed in 2006,

Anna University, Chennai.

Post - doctoral research - “Biodiesel from Marine Algae” - 2008 -2010, Indian Institute of Technology, Madras.

c. Number of Projects Guided

Under Graduate Level: 11

Post Graduate Level : 16

M.Phil Projects : 05

Ph.D: Guideship applied

Dr.R.Shenbagarathai M.Sc., Ph.D

Associate Professor

Department of Zoology

Area of specialization /Area of interest - Microbial Biotechnology**Number of Projects Guided****Post Graduate Level : 16****M.Phil Projects : 17****Ph.D:** Completed: 6, Ongoing: 8(Full time 6 + Part time 2) Co Guide:8**Completed Minor Research Projects : 11****Completed Major Research Projects : 7****Ongoing Research Projects : 2****Number of Papers Presented : 71**

Research projects carried out with Central / State assistance

S.No.	Principle Investigator	Title of Project	Funding Agency	Amount (Lakhs)	Duration
1.	Dr.R.Shenbagarathai	DBT-BIF	DBT-BTISnet	20.00 44.154 34.44	2000 - 2006 2006 – 2011 2011-2015
2.	Dr.R.Shenbagarathai	“Characterization of indigenous parasporins and its action on different tumor cell lines”	SERB	51.49	3 Yrs (2013-2016)

COMPLETED MAJOR RESEARCH PROJECTS

S.No.	Principle Investigator	Title of Project	Funding Agency	Amount (Lakhs)	Date of sanction and Duration
1	Dr.R.Shenbagarathai	Characterization of two <i>Bacillus</i> sp. and development of Biopesticide against <i>Spodoptera</i> sp	UGC	5, 57,960	3Years: 1.07.2003 to 30.06.2006
2.	Dr.R.Shenbagarathai	Strain improvement and production of environmentally safe plastics (PHB) from indigenous <i>Pseudomonas</i> sp (Scientific	DST-WOS(A)	11.04	3 Years: 1.4.2005 to 1.4.2008

		Mentor)			
3.	Dr.R.Shenbagarathai	Scale up of Polyhydroxyalkanoates production from indigenous isolates and its applications.	DBT	45.00	3 yrs (2009-2011)
4.	Dr.R.Shenbagarathai	Study on cytolytic proteins from Non-toxic isolates of <i>Bacillus thuringiensis</i> sp	UGC	8.53	3 yrs(2009-2011)
5.	Dr.R.Shenbagarathai	“Analysis of non-insecticidal parasporin protein (anti-tumor crystal protein) variation in indigenous strains of <i>Bacillus thuringiensis</i> .”	DST	19.15	3 yrs (2010-2013)
6.	Dr.R.Shenbagarathai	“Development of matrices using sel-mel PHA produced of indigenous <i>Pseudomonas</i> sp. LDC-5”	DBT	50.50	3 yrs (2010-2013)
	Dr.R.Shenbagarathai	“Proteomic Analysis of an indigenous <i>Bacillus thuringiensis</i> strain <i>B.t.</i> LDC-391 producing parasporin a cancer cell killing protein”	CSIR	9.64 (1st Year)	3 Yrs (2011-2014)

COMPLETED MINOR RESEARCH PROJECTS

S.No	Title of the project	Name of the funding agency	Duration of the project	Project cost	Remarks
1	Protein profiles of the Mollusean Hepato Pancrease under physiological stress.	UBCHEA	1992-1993	30,000	
2	Isolation of <i>Bacillus</i> sp from dead insects and soil and there potential as Biopesticide	UBCHEA	1994-1995	9,000	
3	Characterization of Crystal Protein (toxin) from isolates of Indigenous <i>Bacillus</i> strains and Evaluation of their	UBCHEA	1996-1997	7,000	-----

	Insecticidal activity				
4	Molecular characterisation of crystal protein from isolates of Indigenous <i>Bacillus</i> LDC-7 and LDC-9 having toxicity against Lepidopteran pests	UGC Minor Project	1998-2000	40,000	-----
5	Can toxic indigenous isolates of <i>Bacillus sp</i> prove a promising alternative to <i>Bacillus thuringiensis</i>	TNSCSTC Student Project Scheme	1998-1999	6,000	Project Presented awarded first prize on 21 st August 1999
6	Functional genomics analysis of indigenous <i>Bacillus species</i> having toxicity against Lepidopteran pests	UGC Minor Project	2000-2001	42,000	
7	Primer designing and PCR analysis for cry genes of <i>Bacillus sp</i> (indigenous isolates) <i>Bacillus</i> LDC-7 and <i>Bacillus</i> LDC-9	TNSCSTC Student Project Scheme	2000-2001	6,000	
8	PCR analysis of cry gene from indigenous isolates of <i>Bacillus sp</i>	UBCHEA	2000-2001	30,000	
9	Isolation of Beneficial Microflora and their role on Production of PHB – Poly Hydroxy butyrate	TNSCST Student Project Scheme	2001-2002	5,000	Project Presented awarded first prize.
10	Isolation and characterization Of PHB producing indigenous Microflora	UBCHEA	2001-2002	53,000	
11.	Characterization of two <i>Bacillus</i> species and development of Biopesticides against <i>Spodoptera litura</i> .	UGC-Major 2003-2006	2003-2006		

Publications - 37

1. Saranya V, Rajeswari V., Abirami P., Poornimakkani., Suguna P., **Shenbagarathai R.** Statistical media design for efficient Polyhydroxyalkanoate production in *Pseudomonas* sp. MNNG-S. *Preparative Biochemistry and Biotechnology*. (Article in Press). **IF: 0.911.**
2. Shabna A, Saranya V, Malathi J, **Shenbagarathai R**, Madhavan HN (2014). Indigenously produced polyhydroxyalkanoate based co-polymer as cellular supportive biomaterial. *Journal of Biomedical Material Research Part-A*. 102(10), 3470-3476. **IF:3.369.**
3. P.Suguna,C. Binuramesh, P. Abirami, V. Saranya, Poornimakkani, V. Rajeswari & **R. Shenbagarathai** (2014). Immunostimulatory effect of PHB-HV from *Bacillus thuringiensis* in *Oreochromis mossambicus*. *Fish and Shellfish Immunology*. 36:90-97. **IF:2.674.**
4. Asnet Mary John, Paramasivan Rajaiah, Tyagi Brij Kishore, Surender Mohan and **Shenbagarathai Rajaiah**. (2012). Identification of structural motifs in the E2 glycoprotein of Chikungunya involved in virus-host interaction. *Journal of Biomolecular Structure and Dynamics*.
5. Saranya.V., Poornimakkani., Krishnakumari.M.S., Suguna.P., Binuramesh.C., Abirami.P., Rajeswari.V., Ramachandran.K.B. and **Shenbagarathai.R** (2012) Quantification of intracellular Polyhydroxyalkanoates by virtue of personalized flow cytometry protocol. *Current Microbiology*.**IF:1.423**
6. Kkani Poornima, Viswanathan Saranya, Periyasamy Abirami, Chandrasekaran Binuramesh , Ponnusamy Suguna, Peter Selvanayagam, **Rajaiah Shenbagarathai** (2012) Phenotypic and genotypic characterization of *B.t.LDC-391* strain that produce cytotoxic proteins against human cancer cells. *Bioinformation*. 8(10): 461-465. **IF: 0.5**
7. Shree T, Asnet JM, Kumar R, Mohan T, **Shenbagarathai R.**, (2012) Pharmacophore modeling and Identification of Dengue virus RNA dependent RNA polymerase, *Online J Bioinformation*.13(1):130-144,. **IF:NA**
8. John Asnet Mary, Karuppiah Chandran Priyadharshini, Gurusamy Prabakaran Rubia Amal,Gunasekaran Ramya, Radhakrishnan Nithya, Morkondam Balasubramanian Ambika & **Rajaiah Shenbagarathai**. (2012) MEDDB: A medicinal plant database developed with the information gathered from tribal people in and around Madurai, Tamil Nadu. *Bioinformation*. 8(8): 389-391 **IF: 1.15**
9. Asnet Mary J, Kavitha S, VictoriaV, Paramasivan R, **Shenbagarathai R**, Selvanayagam P, & Madhanmohan T.(2012) In Silico Prediction of putative epitopes in structural polyprotein of Chikungunya virus. *Online Journal of Immunology* 12(1) 1:1-7. **IF:NA**
10. Ramakrishnan K, **Shenbagarathai R**, Kavitha K, Thirumalaikolundusubramanian P and Rathinasabapati R. (2012) Selenium levels in person with HIV/Tuberculosis in India, Madurai city. *Clinical Laboratory*, **58. IF:1.056**

11. V.Saranya and **R.Shenbagarathai** (2011) Production and characterization of PHA from Recombinant E. coli harbouring phaC1 gene of indigenous *Pseudomonas sp.* LDC-5 using molasses. *Brazilian Journal of Microbiology*. 42(3): 1109-1118. **IF: 0.62**
12. Poornima, K., Selvanayagam, P., and **Shenbagarathai, R.** (2010). Identification of native *Bacillus thuringiensis* strain from South India having specific cytotoxic activity against cancer cells. *Journal of Applied Microbiology* (109). **IF: 0.62**
13. Ko-Sin Ng, Wei-Yang Ooi, Lay-Koon Goh, **Shenbagarathai, R** and Kumar Sudesh (2010). Evaluation of *Jatropha* oil to produce poly (3-hydroxybutyrate) by *Cupriavidus necator* H16 .*Polymer Degradation and Stability*. **95**(8): 1365 – 1369.
14. Saranya, V., and **Shenbagarathai, R.** (2010). Effect of Nitrogen and Calcium sources on Growth and Production of PHA of *Pseudomonas sp.* LDC-5 and its Mutant. *Current Research journal of Biological Sciences*. **2**(3): 164-167.
15. Ayyasamy Mahalakshmi, **Rajaiah Shenbagarathai** (2010). Homology modeling of Cry10Aa toxin from *B. thuringiensis israelensis* and *B. thuringiensis* subsp. LDC-9. *Journal of Biomolecular modeling Structure and Dynamics*. **28**(3):363-78
16. Ayyasamy Mahalakshmi, **Rajaiah Shenbagarathai** (2009). *In silico* structural analysis of parasporin 2 protein sequences of non – toxic *Bacillus thuringiensis*. *Journal of Biomedical Science and Engineering*. **3**:415-21.
17. Sujatha, K., Mahalakshmi, A., Daniel, K., Solaiman, Y., **Shenbagarathai, R.** (2009). Sequence analysis structure prediction and functional validation of PhaC1 / PhaC2 genes of *Pseudomonas sp.* LDC-25 and its importance in PHA accumulation. *Journal of Biomolecular modeling structure and Dynamics*. **26**(6).
18. Ramakrishnan, K., Praveensharma, S., **Shenbagarathai, R.** et al (2009). Serum selenium levels in pulmonary tuberculosis levels with and without HIV/AIDS. *Frontiers of Retrovirology*. **6** (suppl 2).
19. Mahalakshmi, A., Sujatha K. and **Shenbagarathai, R.,** (2008). Molecular modeling and characterization of *B.t.* LDC-9 and *B.t.* cytolytic proteins. *JBSD* **26** (3).
20. Ramakrishnan, K., **Shenbagarathai, R.,** Uma, A., Kavitha, K., Rajendran, R., Thirumalaikolundusubramanian, P. (2008). Serum Zinc and Albumin Levels in Pulmonary Tuberculosis Patients with and without HIV. *Japanese Journal of infectious diseases*. **61**(3): 202-204.
21. Sujatha, K., Mahalakshmi, A. and **Shenbagarathai, R.** (2007). Molecular Characterisation of *Pseudomonas sp.* LDC-5 involved in accumulation of Polyhydroxybutyrate Medium-chain Length Polyhydroxyalkanoates. *Archives of Microbiology*. **188**: 451-462.
22. Ramakrishnan, K., **Shenbagarathai, R.,** Uma, A., Kavitha, K., Rajendran, R., Thirumalaikolundusubramanian, P. (2007). Prevalence of intestinal parasitic infestation in HIV/AIDS patients with Diarrhoea in Madurai city, South India. *Japanese Journal of Infectious Diseases*. **60** (4): 209-10.
23. Sujatha. K and **Shenbagarathai. R.** (2006). A study on mcl polyhydroxyalkonate accumulation in *E-coli* harbouring pha C gene of indigenous *Pseudomonas sp.*LDC-5. *Letters in Applied Microbiol.* **43**(6): 607-614.

24. Sandhya, B., Thomas, S., Isabel, W. and **Shenbagarathai, R.** (2006). Ethnomedicinal plants used by the valaiyan community of piranmalai hills (Reserved Forest) Tamil Nadu, *African Journal. Traditional, Complementary and Alternative Medicines*. **3**(1):101-114.
25. Sujatha, K., **Shenbagarathai, R.** and Mahalakshmi, A. (2005). Production of polyhydroxy butyrate by *Pseudomonas* sp. isolated from native environment (Madurai district), *e-polymer* (p- 017).
26. K.Sujatha, Mahalakshmi, A. and **Shenbagarathai, R.** (2005). A study on accumulation of PHB in native *Pseudomonas* isolates LDC-5 and LDC – 25, *Indian Journal of Biotechnology*, **4**: 216 – 221.
27. K.Sujatha, A. Mahalakshmi and **R. Shenbagarathai.** (2005). Analysis of PCR products for PHB production for indigenous *Pseudomonas* sp. LDC-5. *Indian Journal of Biotechnology*, **4**: 323 – 335.
28. Mahalakshmi, **Shenbagarathai, R.** and Sujatha, K. (2005). Identification of novel indigenous *Bacillus thuringiensis* isolates. *Indian Journal of Experimental Biology*. **43**: 414-419.
29. Mahalakshmi, A., Sujatha, K. and **Shenbagarathai, R.** (2004). Study of native *Bacillusthuringiensis* isolates and analysis of its effect on *Spodoptera litura*. *Asian J.microbiol, Biotech. & Environmental Sciences*, **6** (4): 641-645.
30. **Shenbagarathai, R.** (2004). Review on Biopesticides. *Biotechnological applications in environment and agriculture* (ed). 165-175.
31. **Shenbagarathai, R.**, Sujatha, K. , Mahalakshmi, A. and Shanthi Nalini.(2003). Effect of Native *Azotobactor* species on Chilly. *J. Microbial World*. 5(2): 117-119.
32. Sujatha, K., Mahalakshmi, A. and **Shenbagarathai. R.** (2003). Biotransformation of kitchen waste by earthworm and microbe interactions and its effect on the growth of tomato [*Lycopersicum esculentum*] and Chilli [*Capsicum annum*]. *Nature Environment and Pollution Technology*. **2**: 53-56.
33. Roop Sing Bora, Murthy, M.G., **Shenbagarathai, R.** and Vaithilingam Sekar. (1994). Introduction Lepidopteran specific insecticidal crystal protein gene of *Bacillus thuringiensis sub-sp. Kurstaki* by conjugal transfer into a *Bacillus megaterium* that present in the cotton phyllospheres. *Appl. Environ. Microbiol.* **60**. (1)
34. **Shenbagarathai, R.** (1993). Isolation and Characterization of mutants of *Rhizobium* of *Sesbania procumbens* *Soil Biol. Biochem.* **25** (10) 1339 – 1342.
35. **Shenbagarathai, R.** and Shanmugasundaram., S. (1993). Characterization of *Rhizobium* SBS-R100, a stem nodulating bacterium isolated from a weed legume *Sesbania procumbens*. *Soil Biology & Biochemistry.* **25** (2) 257 – 260.
36. **Shenbagarathai, R.** and Shanmugasundaram, S. (1992). Is the lactose utilization ability of *Rhizobium* of *Sesbania procumbens* a vestigial function. *World J. Microbiol. And Biotech.* **8**:598-600.
37. **Shenbagarathai, R.** and Shanmugasundaram,S. (1992). Stability of incompatible plasmid vectors IncP IncQ in the cowpea *Rhizobium* of *Sesbania procumbens* *Indian J.Microbiol Ecol.* **2**:39-42.

Mrs.Priyadharshini Rajendren M.Sc., M.Phil. (Ph.D)

Assistant professor
Department of Zoology

Area of Specialization /Area of Interest: Immunology & Environmental Toxicology

Number of Projects Guided

Under Graduate Level : 24

Post Graduate Level : 18

M.Phil Projects : 17

Number of Papers Presented - 5

Patent filed: Patent Registration no: 214/CHE/2013 An efficacious marine plant-derived immunostimulant for preventing diseases in carps and other fishes in aquaculture.

❖ Submitted Ph.D thesis entitled “Immunomodulatory properties of a Phaeophycecan macro alga *Padina gymnospora* in the common carp *Cyprinus carpio*”

Book Publication

Dr.R.Gunaseeli,Dr.C.Jessie Ranjitha Jebaselvi & **Mrs.Priyatharsini Rajendran**, “Multidisciplinary Nature of Environmental Education and Environmental principals, In Essentials of Environmental Education”, 2014; 1-5.

Mrs.Priyatharsini Rajendran -Butterflies of Lady Doak College Campus, Lady Doak College publication, 2007.

Editor of the book

Dr.R.Gunaseeli, Dr.C.Jessie Ranjitha Jebaselvi & **Mrs.Priyatharsini Rajendran**,”Essentials of Environmental Education”, Centre for Environmental studies, Lady Doak college, 2014.

Papers published:

Differential effect of chromium compound on the antibody response of *Oreochromismossambicus* (Peters). (1994). Developmental and Comparative Immunology, Elseiver publication, **18**(1):150.

Differential effect of chromium compound on the immune system of *Oreochromismossambicus* (peters) – Fish and shell fish Immunology, Academic Press. 10, 667-676, 2000

Women and health, A topic in the book - Women and Society- a reader in women studies, Lady Doak College Publication. 2001, reprinted 2004.

Mrs.A.P.A. Rani, M.Sc., M. Phil., (Ph.D)

Associate Professor
Department of Zoology

Area of Specialization / Area of Interest : DNA – Drug interaction; Human and fish cytogenetics; Bioinformatics and Genotoxicity studies

Number of Projects Guided

Under Graduate Level: 26

NO. OF PAPERS PRESENTED: 13

LIST OF PUBLICATIONS:

1. **Rani A.P.A.**, and Kumaraguru, A.K., (2013), Micronucleus assay in cichlid tilapia fish *Oreochromis mossambicus* exposed to endosulfan, Asian Academic Research Journal of Multidisciplinary, Online ISSN: 2319-2801, Volume 1, Issue 8, 57-63.
2. **Rani A.P.A.**, and Kumaraguru, A.K., DNA integrity as biomarker of genotoxic effect of endosulfan in *Oreochromis mossambicus* (Peters), (2013), International Journal of Engineering Science Invention, ISSN (Online): 2319-6734, ISSN (Print): 2319-6726, www.ijesi.org, Volume 2, Issue 4, 58-61.
3. “Changing scenario in alternative pedagogy and effective learning”, **Rani. A.P.A.** and Santhameena, National Conference on “Competence building in Higher Education – Trends & Challenges”, 30th Sep. and 1st Oct. 2011, Lady Doak College, Madurai.
4. “Sports activity and Academic learning”, Santhameena and **Rani. A.P.A.**, National Conference on “Competence building in Higher Education – Trends & Challenges”, 30th Sep. and 1st Oct. 2011, Lady Doak College, Madurai.
5. “Barriers in women’s empowerment in academics” **A.P.A. Rani** and J.A. Esther Rani, Two days National Seminar on “Empowerment of women in Science and Technology”, Dept. of Theoretical Physics, University of Madras, Chennai, 8th – 9th Mar 2010.
6. “Financial crisis as a barrier for empowerment of women in academics” J.A. Esther Rani and **A.P.A. Rani**, Two days National Seminar on “Empowerment of women in Science and Technology”, Dept. of Theoretical Physics, University of Madras, Chennai, 8th – 9th Mar 2010.

RESEARCH PROJECTS CARRIED OUT:

Sponsoring Agency	Title of project	Amount of grant	Period	Co-investigators (if any)
UBCHEA Research Grant	Cytogenetic study on Breast Cancer	Rs. 13,000	2000	Dr. Shanthakumari Reuben
UGC Minor Research Grant	“Cytogenetic and Molecular effect of endosulfan on <i>Oreochromis mossambicus</i> (Peters)”	Rs. 94,800	2004 – 2006	-
UGC Minor Research Grant	“Assessment of damage caused by endosulfan using <i>Oreochromis mossambicus</i> (Peters)”	Rs. 1,03,000	2010 – 2011	-
Management Grant	“Correlation study of	Rs. 10,000	2011 - 2012	

	Personality and Stress type, stress induced factors – Cortisol, Albumin in relation to BMI value among teaching and non-teaching staff in LDC, Madurai”			
Management Grant	“Lead toxicity assessment”	Rs. 20,000	2012 - 2013	

Mrs.B.Shanthy,M.Sc.,M.Phil.,

Associate Professor

Department of Zoology

Area of Specialization / Area of Interest : Physiology, Toxicology, Environmental Biology and Entomology

Number of Projects Guided

Under Graduate Level: 20

Post Graduate Level : 17

LIST OF PUBLICATIONS:

1. S. Chockalingam, K.P.S. Jeyachandran and B.Shanthy (1988):

Effect of sub lethal concentrations of dairy effluent on the respiratory metabolism of the dragonfly nymph *Brachythermis contaminata*. **Uttar Pradesh Journal of Zool. 8(1):12-17, 1988.**

2. S. Chockalingam, K.P.S. Jeyachandran and B.Shanthy (1988):

Effect of sublethal concentrations of dairy effluent on the biochemical constituents in the nymph of the dragonfly *Brachythermis contaminata*. **Poll.Res. 7 No (1-2) PP 23-28, 1988.**

3. B.Shanthy, S. Chockalingam and J. Muthukrishnan (1995):

Development changes elicited by Hydroprene and Methoprene in *Tribolium castaneum* *Herbst*. **Proc. Indian National Science. Academy, B61, No.4, PP-291-298 (1995).**

RESEARCH PROJECTS CARRIED OUT:

TITLE OF PROJECT	NAME OF THE FUNDING AGENCY	DURATION
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Survey on health status of Lady Doak College Community.	UBCHEA	One year (2006-2007)
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DR.MRS.A.S.PRISCILLA M. SC., M.PHIL, PH.D

Assistant Professor

Department of Zoology

Area of Specialization /Area of Interest - IMMUNOLOGY

Number of Projects Guided

Under Graduate Level: 13

Post Graduate Level : 17

M.Phil Projects : 04

Ph.D: Guideship approved

Number of Papers Presented: 8

LIST OF PUBLICATIONS:

- Presented a paper **entitled “Studies on circadian variation in antibody production in the fish *Oreochromis mossambicus* (Peters)** in the Second Indian fisheries Forum, Mangalore on 30th may, 1990. Published in **Indian Journal of Experimental Biology**. July '94, pp. 474-471.
- Presented paper entitled, **“A report on the white feathered mutants of Japanese quail, *Coturnix coturnix japonica*”**, in the 11th National Symposium on Life Sciences, Madras on 9th October, 1992. Published in the Journal, **Trends in Life sciences (India)**, 1993, 8 (1); 55-56.
- Presented a paper entitled, **“Study on the population of grey francolin *Francolinus pondicerianus* from three habitats of Therkukaraseri, Chidambaranar District, Tamilnadu”**, in National Symposium on Galliformes, Mayiladuthurai, in February 2002, published in the proceedings.
- Presented a paper entitled, **“A note on the capturing techniques used by villagers and domestication of grey francolin (*Francolinus pondicerianus*) observed in Southern Tamilnadu”**, in National Symposium on Galliformes, Mayiladuthurai, in February 2002, published in the proceedings.

- Presented a paper entitled, “**Distribution of Galliformes in selected areas of Tamilnadu**”, in National Symposium on Galliformes, Mayiladuthrai in February 2002, published in the proceedings.

RESEARCH PROJECT INVOLVED

SNo	Title	Year	Amount sanctioned	Funding Agency
1.	Survey of health status of Lady Doak College Community	2007 – 2008	Rs 40,000	United Board for Christian Higher Education Asia
2.	Survey of stray dogs for Canine Herpes Virus infection in Madurai city	2010 – 2011	Rs 1,05,000	UGC – Minor Research Project
3.	Community project on environment and health at Sellur	2010 -2011	\$2500	UBCHEA
4.	Carbon footprinting at Thathaneri crematorium, Madurai	2011 – 2012	\$4000	UBCHEA
5.	Action plan for Parthenium control	2011 - 2012	\$3500	UBCHEA

MRS. A. LOURDHU MARY M. SC., B.ED., M.PHIL, (PH.D)

Assistant Professor

Department of Zoology

AREA OF SPECIALIZATION /AREA OF INTEREST - MOLECULAR BIOLOGY

Number of Projects Guided

Under Graduate Level: 21

Post Graduate Level : 10

Number of Papers Presented – 10

PUBLICATIONS-7

1. **A. Lourdhu Mary**, Isabel W, J. Jebasingh and Thayumanavan. **A Study on the prevalence of CAT (-21A/T) gene polymorphism and its association with cancer in Tamil Nadu population.**
2. Rama Devi K and **A. Lourdhu Mary**. **Vermicomposting of poultry feather using Eisenia foetida and Indigenous earth worm : A comparative Study.** *International journal of scientific research. Vol. 2 (10) 481-482, 2013 . Issn No 2277 – 8179. Impact Factor-0.33*
3. **A. Lourdhu Mary**, Isabel W, P. Jose Heavena, K. Nithya, and Dr. Jebasingh. **Assessment of Catalase Activity in Oesophageal Cancer- a Case Control Study.** *International journal of scientific research. Vol. 2 (5) 481-482, May 2013 . Issn No 2277 – 8179. Impact Factor-0.33*
4. Jumila S. Christopher, A. Mehaboob Sulthana Parveen & **A. Lourdhu Mary**. **A Comparative study on the nutrient assessment of vermicompost obtained from**

- Poultry feathers and leaf litters using *Eisenia foetida*. ASPIRE- In house Journal, Vol(1):94-99 (2010)ISSN: 2229-4953.**
5. PM0075029 Lourdhu Mary Britto Protein Model submitted in the Protein Model Database – the ID assigned for the modeled keratinase (AAS86761.1) of *B. licheniformis* - (Oct. 2007)
 6. Nirmala Jeyaraj, T. Angeline, **A. Lourdhu Mary**, K. Ramadevi and Rita Mary Aruna. **Selenium status in acute myocardial infarction patients among Tamil Nadu population.***J. Curr. Sci*, 5(1): 145 – 148 (2004).

Ms. S. Amala Rani, M. Sc., M.Phil

Assistant Professor

Department of Zoology

Area of Specialization /Area of Interest - Environmental Biology

Number of Projects Guided

Under Graduate Level: 09

Post Graduate Level : 1

Number of Papers Presented – 2

Paper Publications- 3

Kiruba Deboral, R. Sivasankari,S and Amalarani.S, “Effect of Aqueous extract of Spirulina on the serum calcium and cholesterol level in medroxyprogesterone treated swiss albino mice “. ASPIRE (Arts and Science publication In research)- In house journal , Vol.3A (2012), Lady Doak College, Madurai (ISSn:229-4953)

Jaishree, S and Amalarani, “Isolation, Characterization and comparison of activity of proteasefrom ginger, garlic and fennel”. ASPIRE (Arts and Science publication In research)- In house journal , Vol.3A (2012), Lady Doak College, Madurai (ISSn:229-4953)

Jenifa Begum. R. Priyanka. R,Shantha Meena.T and Amalarani.S,”Effect of Health related physical fitness programme in Thondamanpatti school children”. ASPIRE (Arts and Science publication In research)- In house journal , Vol.3A (2012), Lady Doak College, Madurai (ISSn:229-4953)

Ms. P. Jose Heavena Fernando M.Sc., M.Phil. Biotechnology

Part Time Lecturer

Department of Zoology

Area of Specialization /Area of Interest - Molecular biology

No. of publications : 1

A.Lourdhu Mary, Isabel W, P. Jose Heavena, K. Nithya, and Dr. Jebasingh. Assessment of Catalase Activity in Oesophageal Cancer- a Case Control Study. *International journal of scientific research. Vol. 2 (5) 481-482, May 2013. Issn No 2277 – 8179. Impact Factor-0.33*

Dr. Sujatha Kabilan M.Sc., Ph.D

Official Address

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Academic Record

Sl No.	Institution Place	Degree Awarded	Year of Passing	Field of Study
1	Lady Doak College Affiliated to Madurai Kamaraj University	Ph.D	2008	Microbiology
2	Madurai Kamaraj University	M.Sc	1997	Biology
3	Fatima College Affiliated to Madurai Kamaraj University	B.Sc	1995	Zoology

Professional Recognition/ Ranks and Awards

- **TamilNadu Young Women Scientist Award for the year -2009:** From Department of Higher Education, TamilNadu Government.
- **Mentor/Resource person for Summer/Winter camp-**Recommended by DST (from 2012 to till date).
- **Evaluator** for 2012-TNSTSC-SPS (Student's Project Scheme) projects held at Kamaraj College of Engineering and Technology (KCRT) on August 10th and 11th, 2012.
- **Women Scientist Research fellowship (WOS-A) by Department of Science and Technology [2005-2008].**
- Received **Student Travel Grant Award** from **ISBP committee** for attending the International Symposium held at **Beijing, CHINA [2004].**
- **TNSCST Student Fellowship award [3 years].**
- M.Sc (Biology) – **University II rank.**
- B.Sc (Zoology) – Srivilliputhur Rengasamy Endowment **Prize for proficiency in Zoology (Fatima College).**
- Higher secondary – **Ist Prize** for proficiency in Zoology.
- **Convener** of winter school on Gene Cloning and Expression in bacteria (September 16th to October 1st 2010).

- **As an Organizing member/Resource person** in NRCBS Summer/Winter school from 2009 June to October 2015.
- **As an Organizing member/Resource person/Course faculty** for various workshops on Immunology/Bio-informatics/Microbial Biotechnology.

Publications

International Journal	- 9
National Journal	- 6
Book Chapters	-4
Sequences submitted to EMBL	-41
EMBL Align Nos.	-13
Structures submitted to PDB/PMDB	-16
International conference	-19
National conference	-20
International/National proceedings	-5

Academic Visits Abroad

Visited Beijing, China in the year 2004 for presenting research paper in an International Symposium on Biopolyester (ISBP-2004). Research **paper has been selected as one of the Top 5 papers at International level-Received - Travel fellowship award.**

Major Research Projects

Details of Completed Research Projects:

S.No	Title of the Sanctioned Project	Title of the Sanctioned Project	Duration	Grant Received and year of completion
1	Strain improvement and production of environmentally safe plastics (PHB) from indigenous <i>Pseudomonas</i> sp.	DST-WOS(A)	Rs. 11,04,000/-	1.3.2005-1.4.2008 [2008]
2	Bacterial degradation of synthetic (Polyethylene terephthalate-PET) and natural polymer PHA)'' [Principal Investigator]	UGC:[F. No. 39-206/2010 (SR)]	2011 - 2014	Rs.9,24,800 [2014]
3	Production of exopolysaccharides from the biofilm forming bacteria and their applications. [Principal Investigator]	DST:F.NO.SR/SO/HS-0142/2009	2011 - 2014	Rs.30,85,000 [2014]

4	Improved Synthesis of polyhydroxyalkanoate (PHA) copolymer by high active <i>pha synthase</i> and its application in drug delivery'. [Principal Investigator]	DST:SR/SO/HS-0001/2012	2012-2016	Rs.36, 05,000. [2016]
5	Study of unculturable and culturable bacterial diversity in different developmental and survival responses of <i>Spodoptera litura</i> and <i>Helicoverpa armigera</i> [Co- Principal Investigator]	UGC:[F.No.41-1156/2012(SR)]	2012-2015	Rs.4,59,000 [2015]

Dr. A.Mahalakshmi, M.Sc., Advanced Dip (Bioinf),Ph.D

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Academic Record

Sl.No	Institution Place	Degree Awarded	Year of Passing	Field of Study
1	Lady Doak College Affiliated to Madurai Kamaraj University	Ph.D	2008	Microbiology
2	Madurai Kamaraj University	Post Advanced Diploma in Bioinformatics	2000	Bioinformatics
3	Madurai Kamaraj University	M.Sc	1999	Integrated Biology
4	Lady College Affiliated to Madurai Kamaraj University	B.Sc	1997	Zoology

Professional Recognition/Ranks and Awards:

- Received **CSIR Travel Grant** for Young woman scientist-2005
- M.Sc- **UGC-NET** Qualified for JRF and Lecturership -1999
- B.Sc. Certificate Prize for **Consistent Academic Performance**
- **As an Organizing member/Resource person** in NRCBS Summer/Winter school from 2009 June to Till date.
- **As an Organizing member/Resource person/Course faculty** for various workshops on Immunology/Bio-informatics/Microbial Biotechnology/Plant Genomics

Publications

International Journal	- 11
National Journal	- 7
Book Chapters	-4
Sequences submitted to EMBL	-41
EMBL Align Nos.	-13

Structures submitted to PDB/PMDB	-16
International conference	-19
National conference	-20
International/National proceedings	-5

Academic Visits Abroad:

Visited Wuhan, China in the year 2005 for presenting research paper in Third International Symposium on Biocontrol and Biotechnology (BCBT-2005). CSIR sponsored the travel grant to present the paper - Travel fellowship award.

Major Research Project

Sl.No.	Title of Project	Funding Agency	Amount	Date of Start/completion
1	Study of unculturable and culturable bacterial diversity in different developmental and survival responses of <i>Spodoptera litura</i> and <i>Helicoverpa armigera</i> to <i>B.t</i> - Principal Investigator	UGC	Rs.4,59,000/-	1.7.2012- 1.7.2015
2	Improved Synthesis of polyhydroxyalkanoate (PHA) copolymer by high active <i>pha synthase</i> and its application in drug delivery'- Co- Principal Investigator	DST-SERB	Rs.36, 05,000.	2012-2015