

CURRICULUM VITAE

A.LOURDHU MARY

Designation: Assistant Professor

Educational Qualification: M.Sc. B.Ed, M.Phil. Ph.D

Professional Qualification: SLET March'98 & CSIR(JRF-Qualified) Top 20% June 2000 ; M. Phil Biotechnology (2007) and PhD Zoology (2018)

Additional Qualification: Qualified for the certificate course in HINDI (2011) from the Directorate of Hindi Education, Government of India.

Completed the training _Accredited course in Christian counseling: Completed Level- I (2016) and Level –II module II (2018)‘ organized by Person to Person, Hyderabad.

Completed the International Leadership Training –Virtual Haggai Leadership Experience from January 29th to May 8th, 2021.

Area of Specialization in Research: Molecular Biology, Cancer Biology, and Vermitechnology

❖ ***Teaching Experience: 26 years***

- **Lady Doak College, Madurai-** Teaching Assistant in Zoology (1999-2000)
Lecturer in the Department of Zoology (2000-2003)
Lecturer in the Department of Biotechnology (2003-2013)
Assistant Professor in Zoology (2013 to date)
Co-ordinator of Biotechnology (2025 onwards)

- **T V S Lakshmi** Matriculation Higher Secondary School, TVS Nagar, Madurai-3 (1998-99)
and **Mahatma Montessori** Matriculation Higher Secondary School, Madurai-20 (1996-97)

❖ **Research carried out:**

Project	Title	Guide	Year
<i>PhD, Zoology P9920</i>	Evaluation of Single Nucleotide Polymorphism in antioxidant enzymes and their related Biochemical parameters in cancer patients	Dr. W. Isabel, Associate Professor & Head, PG & Research Department of Zoology, Lady Doak College.	April 2018

M.Phil Biotechnology	<i>In silico</i> analysis and structure prediction of keratinase of <i>Bacillus licheniformis</i>	Dr R. Shenbagarathai. Professor & Head, PG & Research Department of Biotechnology, Lady Doak College.	Oct . 200 7
M.Sc., Zoology	A Study on Reproductive Biology and Reproductive Behaviour of <i>Poecilia reticulata</i> (Peters).	Dr. Sarah Sathyawathy, Associate Professor, PG & Research Department of Zoology, Lady Doak College.	Apr . 199 6
B.Sc., Zoology	Use of Sweet Flag (<i>Acorus calamus</i>) rhizome as a potential Insecticide.	Dr. Nirmala Jeyaraj, Associate Professor, PG & Research Department of Zoology, Lady Doak College.	Apr . 199 4

❖ **Research Experiences: No. of Student Projects Guided: UG projects- 34
PG projects- 28**

- ❖ **Online courses – 1. Completed a free Online course on “Microbiology and Forensic Science”- Offered by Open2Study, an Australian University. July 2nd to July 28th, 2015.**
- 2. Completed a course on “Intellectual Property Organization” organized by WIPO Academy (Feb. 22nd –Apr. 6th, 2019)**
- 3. Completed around 25 online discipline-related webinars during lockdown period (March 2020–June 2021)**

❖ **Research grants received:**

S.No	Name of Award/Student	Awarding Agency	Year	Title of the project
1	Students Project Scheme- Financial Assistant for Rs. 7500/- S. Lalitha Lakshmi	Tamil Nadu State Council for Science and Technology (TNSCST)	2018-2019 MS012	Evaluation of Single Nucleotide Polymorphism and Haplotype Analysis of (+49A/G and CT 60 A/G) Cytotoxic T-Lymphocyte Antigen-4
2	Students Project Scheme- Financial Assistant for Rs. 7500/- P. Harini Kubendran	Tamil Nadu State Council for Science and Technology (TNSCST)	2019-2020 MS008	“A Study on Evaluation of DNA Damage using Single Cell Gel Electrophoresis (Comet Assay) and Antioxidant Status in Cancer Patients”
3	Institutional Project Rs 30,000/- Santra Nithila Susan	Institutional Project –Lady Doak College	2021-2022	Study on Earthworm diversity and species identification using <i>in silico</i> phylogenetic analysis (DNA Bar coding) at LDC satellite campus, Velichanatham
4	Students Project Scheme- Financial Assistant for Rs. 7500/- V. Priyadharshini	Tamil Nadu State Council for Science and Technology (TNSCST)	2022-2023	Association of CCND1 c870G>A gene polymorphism with cisplatin-induced oxidative stress in cancer patients
5.	Seed grant project Rs 50000/- Ms. Nithya	Seed grant project Lady Doak College	2022-2023	Association of IRS-1 (Insulin receptor substrate-1) gene polymorphism and related biochemical markers on the

				susceptibility of polycystic ovarian syndrome (PCOS) among women in Madurai
6	Students Project Scheme- Financial Assistant for Rs. 7500/- P . Abirami	Tamil Nadu State Council for Science and Technology (TNSCST)	2024-2025	Evaluation of <i>BRCA2</i> gene polymorphism and associated oxidative stress analysis among the breast cancer patients in and around Madurai.

❖ **Resource person in Training /Workshop:**

Served as an organizing secretary for the National Conference on Ecosystem Restoration.”
(30th and 31st January 2025)

Served as a resource person for a session in the Research Forum on —Referencing made easy-An Insight into Zotero (28th January 2022)

Served as a resource person for two days- Regional workshop on DNA Barcoding anddemonstrated the procedure for DNA Isolation, PCR analysis, and Gel electrophoresis of Earthworm DNA (11th & 12th January 2022)

Served as a Course facilitator for Gene annotations in the National level Virtual Workshop on _Bioinformatics Data Resources and Tools for Gene Annotation|| (26th, 27th & 29th March, 2021)

Served as a Resource person for Polymerase Chain Reaction (PCR) in the National Level Workshop on -Recent Trends in Molecular Biology and Bioinformatics– RTMBB – 2016’|| (5th to 7th January 2017).

Served as a Resource person for Polymerase Chain Reaction (PCR) in the -Hands-on training – Techniques in Molecular Biology - TMB-2015 (2nd -4th December 2015)

Served as Organizing Secretary in Prof. N. Whitin Endowment Lecture series in 2013 and 2018

Serves as one of the Organizing secretaries for a workshop on Effective pedagogy using ICT tools in Higher education – CPE grant in 2014 and 2016

❖ **Reviewer of Research Article: Reviewed 2 Papers for the 6th International Conference on Biomedical Engineering and Biotechnology (ICBEB 2017)**

1. *Overexpression of MARCH2 promotes the growth of colon tumor cells via inhibiting autophagy*
2. *Association of neural tube defects with gene polymorphisms in one-carbon metabolic pathway*

❖ **Faculty Development Programmes: UGC –HRDC Programmes**

➤ **Orientation**

Participated and completed in the **UGC sponsored Orientation Programme** conducted by Madurai Kamaraj University from 16.11.2018 – 13.12.201 and obtained A- grade

➤ **Refresher 1**

Participated in the **Online-two-week Interdisciplinary Refresher course/ Faculty Development programme on “Research Methodology”** organized by Teaching learning Centre, Ramanujam College , University of Delhi, under Ministry of Education, from 20.7.2021- 3.8.2021 and obtained A- grade.

➤ **Refresher 2**

Participated in the **14 days online subject specific Refresher course in Zoology** (Faculty Development Programme) organized by UGC-HRDC Madurai kamaraj University from 2.11.2023 to 15.11.2023 and obtained A- grade.

❖ **Paper published: 12**

1. Irene Keziah Lois and **A. Lourduh Mary** (2022). The Diurnal activity patterns and foraging Behavior of three- striped palm squirrel *Funnambulus palmarum*. *Journal of Emerging Technologies and Innovative Research*. Vol (9) Issue 12, Issn-2349-5162
2. Lavanya PS, Dr.Jebasingh J and **A. Lourduh Mary**, (2022). Evaluation of the extent of oxidative stress in breast cancer patients of indian population. *Indian Journal of Applied Research*. Vol (12) Issue 1, ISSN. No. 2249 - 555X.
3. Lalitha Lakshmi S, Jebasingh J and **A. Lourduh Mary** (2019). Evaluation of CTLA-4 (+49 A/G) gene polymorphism in NSCLC (non-small cell lung carcinoma) patients among south Indian population. *International J Curr Sci Res*. Volume 5/ Issue 6, pp. 1765-1774 ISSN:2454—5422.
4. **Lourduh Mary A.**, Angeline,T and Isabel,W. (2016) GenBank accession number for the nucleotide sequence Superoxide Dismutase gene-BankIt1924057 BSeq#1 KX347539
5. M. Raj Kumar, MD,, A. Robert Louis MD, DM. and **A. Lourduh Mary** _Assessment of Glutathione status and Glutathione Peroxidase activity in Lung Cancer Patients_ Research International journal of Scientific Research, October 2016, Impact Factor: 3.508, ISSN NO: 2277-8179, PG No: 39-41, IC Value 6948.
6. **Lourduh Mary, A.**, Nithya, K., Isabel, W., & Angeline, T. (2014). Prevalence of Catalase (-21 A/T) Gene Variant in South Indian (Tamil) Population. *BioMed Research International (Impact Factor-2.71)*.
7. **Lourduh Mary**, Isabel W, J. Jebasingh, and Thayumanavan. A Study on the prevalence of CAT (-21A/T) gene polymorphism and its association with cancer in the Tamil Nadu population. *Indian Journal of Cancer Supplement* October-December 2013, Volume 50 | Issue 4 Page Nos. 285-366 (Impact Factor 1.08)
8. Rama Devi K and **A. Lourduh Mary**. Vermicomposting of poultry feather using *Eisenia foetida* and Indigenous earthworm: A comparative Study. *International journal of scientific research*. Vol. 2 (10) 481-482, 2013. ISSN No 2277 – 8179. Impact Factor-

9. **Lourdhu Mary A**, 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*
10. 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*.
11. **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)
12. 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)*.

❖ **Papers Presented – International and National level: 12**

1. Presented a paper on “**Association of IRS-1 (Insulin receptor substrate-1) gene polymorphism and related biochemical markers on susceptibility of polycystic ovarian syndrome (PCOS) among women in Madurai**” in the international conference organized by the department of Zoology , The American college, Madurai (28th Jan 2024)
2. Presented a paper on “**A study on the effect of residual pesticide in cauliflower wastes on the vermicomposting efficacy of earth worm (*Eudrilus eugeniae*)**” in the International Conference on “Ecotoxicology – Impacts, Assessment and Mitigation”, organized by PG & Research department of Zoology, Lady Doak College, Madurai-2 (16th -17th September 2021)
3. Presented a paper on “**Destigmatization of Counselling Unit**”. *National conference on Counselling practices in Christian in Higher Education, organized by the* Center for Counselling and Health Services of Christ (Deemed to be University), Bangalore (15th - 16th February, 2019).
4. Presented paper on –**Evaluation of Oxidative stress (MDA/TAC ratio) in cancer patients**||. National Seminar on –Biomarkers: from Research to Clinical Practice BRCP – 2017 organized by Department of Biochemistry, Meenakshi College for Women, Chennai (30th & 31st January 2017)
5. Presented a paper on –**Assessment of Oxidative stress and genetic polymorphism in anti-oxidant enzymes (CAT-21A/T and SOD +35 A/C) among cancer patients**|| in the UGC Sponsored National seminar on Emerging Trends in Biological Research, organized by the PG and research Department of Zoology, Lady Doak College, Madurai (16th &17th September 2015).
6. Presented a paper on the “**Evaluation of oxidative stress in patients with oesophageal cancer**” in the “43rd AQUA-TERR Annual conference on Genomic Sciences|| organized by the Department of Animal Behaviour and Physiology, School of Biological Sciences,

Madurai Kamaraj University, Madurai (28th February.2012).

7. Presented a paper on the “**A comparative study on the efficacy of *eisenia foetida* and indigenous earthworm in composting mango leaf litter and its effect on the growth of *lycopersicon esculentum* (l) (tomato)**” in the International conference on Science, Society and Sustainability- Many species one planet for Posterity Organized by lady Doak College, Madurai-2 (11th -13thJanuary-2012)
8. Presented a paper on the –**Study on the efficiency of Earth worm in composting Hay-Cowdung mixture** in the UGC Sponsored National seminar on Bioremediation and Biodegradation organized by the Department of Biotechnology, Sourashtra college of Arts & Science, Madurai (17th & 18th September 2004).
9. Presented a Paper and awarded the ***first prize*** for the paper entitled –**Vermicomposting – A novel method of Waste Management**” in the National Symposium on –Recent Trends in Applied Biology conducted at Avinashilingam Deemed University, Coimbatore. Sponsored by the regional Sericulture Research Station, CSB, Govt of India. (28th & 29th January 2004)
10. Presented a paper –**Study on the reproductive biology and behaviour of *Poecilia reticulata* (Peters)**” in the National Symposium on –Recent Trends in Applied Biology conducted at Avinashilingam Deemed University, Coimbatore. Sponsored by Regional Sericulture Research Station, CSB, Govt.of India. (28th & 29th January 2004)
11. Presented paper entitled –**Use of *Acorus calamus* Linn. (Sweet Flag) as a potential Insecticide** in the two-day National Seminar on –Newer vistas in Bio-Active agents at the Department of Chemistry, Gandhigram Rural Institute-Deemed University, Gandhigram.Tamil Nadu. (20th & 21st Dec., 1999) Sponsored by UGC, & Co-Sponsored by CSIR, ICMR, & TNSCST.

- ❖ **No. of Paper presentation State / National/ International level: 12**
- ❖ **No. of Paper presentation (Students' project) State/ National/ International level: 16**
- ❖ **No of Training workshops attended – 43**
- ❖ **No. of International/ National / State Level / Regional level Seminars & Conferences attended- 28**
- ❖ **No. of Webinars attended virtually (2020-2021), National / International level - 30**
- ❖ **No. Seminars Attended in other Fields – 8**

❖ **Activities / Responsibilities:**

- **Secretary of Faculty Association (2024 onwards)**
- **BSc. and MSc., Biotechnology as assistant BOS Secretary (2006 -2013 and 2024)**
- **CPEC and Exam Committee member in the Department of Biotechnology (2010-2013;2016-17; 2018-2024)**
- **One of the coordinators of the Counselling unit of the college (2017-2020), planning and organizing activities for the counseling unit for students, faculty, and nonteaching staff, along with the counselor, apart from the individual therapeutic counseling.**

- **Served as UG professor, Department of Biotechnology for a term of 2 ½ years (2010 - 2012)**
- **Involved in the periodical reframing of the course profile**
for Area of Special Interest in Teaching Co-Curricular activities: Painting & Sketching
Convenor of the Short-term Course for the UG students. 2000 -2005
- **Short Term & Long Term Club – Faculty in charge of “Painting & Sketching, and Creative Painting” (2000 -2005)**
- **Sports Day** – Faculty in charge of field & track events. (2000 -2008)
- **Extension Activities:** Staff in Charge of NSS Unit VI (College Literacy Programme) 2000-2003.
- **Oikos Club** – Convenor of the Departmental Academic Club – **OIKOS** (2003-2006)
- **Service learning-** Faculty in charge of departmental Service learning programme (2004-06)
- **LAMP-** (Learning and Application Made Possible) Faculty representative of the extension activity (2005- 2008)
- **Departmental Programmes:** Faculty in charge of Physical arrangement, Decoration in all the departments organized seminar, workshop & training programmes, and also for college programmes.
- **College activities & programmes:** Convenor for decoration committee- Annual Convocation and College day from 2008 & 2010 and till date.

Personal Interest / Hobbies: Painting (pot, glass, nib, charts, fabric), Embroidery, Sewing, Knitting, Tatting, Quilling, Fish Keeping, Counseling & Reading Motivational Books.

I solemnly declare that the aforesaid details are true to my belief and conscience.

Place: Madurai

Date: 17.06.2025

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A. LOURDHU MARY