

CURRICULUM VITAE:**DR. S. LAKSHMI SUBHA**

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Mail id: lakshmisubha@ldc.edu.in
3. Marital Status : Married
4. Designation : Assistant Professor,
PG & Research Department of Zoology,
Lady Doak College, Madurai.-2
5. Date of Appointment : 16th June, 2007
6. Areas of Specialization : Microbiology, Genetics, Environmental Biology, Research

Methodology, Molecular biology and Cell biology

7. Academic Qualifications: M.Sc., M.Phil., Ph.D., SET qualified

Course	Duration of study	Board/ University	Marks%
Ph.D	2015- 2018	Madurai Kamaraj University	11.2.2019, Ph.D., Degree awarded
M. Phil., Zoology	1995-1996	Madurai Kamaraj University	74
M.Sc., Zoology	1993-1995	Madurai Kamaraj University	80
B.Sc., Zoology	1990-1993	Madurai Kamaraj University	80

8. Ph. D Thesis title:

Biogas production by anaerobic co-digestion of pretreated coir pith with cow dung - a green technology approach

M.Phil., Thesis title:

Stale Bread: An inexpensive substrate for production of citric acid by *Aspergillus niger* in a surface culture process

M.Sc., Thesis title:

Effect of sub lethal concentration of plant extracts on the development and growth index of *Culex tritaeniorhynchus*.

9. Teaching Experience:

- **U.G. (B.Sc.) level** – From 1996 - till date

Courses taught: Biology of invertebrates, Biology of Vertebrates, Physiology, Molecular Biology, Plant & Animal Biotechnology, Public Health and Hygiene, Biochemistry, Bioprocess and Microbial Technology, Research Methodology

- **P.G. (M.Sc.) level** – From 2007 - till date

Courses taught: Plant biotechnology, rDNA technology, Research Methods in Biology, Inquiry into life, Genetics and Developmental Biology

10. Administrative & organizational Experience

Assistant Professor - 1997 to till date

Member – NSS Programme - 2007-2009

Member-LSP programme - 2011 to 2012

Department Secretary - 2008- 2009

Guest Lecturer in IGNOU - 2007-2009

Co-ordinator in Entrepreneurship development programme 2012-2014

- Handled Certificate programme in Laboratory techniques (CPLT), in IGNOU.

11. Publications

- **Lakshmi Subha, S.** and Thelma, J. (2011). Immunomodulatory effects of *sargassum polycystum* on *oreochromis mosambicus* (peters), ASPIRE - In house Journal, Vol.2, pp. 117-121. ISSN No.-2229-4953.
- **Lakshmi Subha, S. Isabel, W. Priscilla, AS. (2017).** Biologically pretreated coir pith as a substrate for Biomethanation in Batch fermentation, International journal of Chem Tech Research, Vol.10(7): 76-78.

12. Projects Guide

d PG Projects

S.No.	Academic Year	Title of the Project
1.	2005-2006	Decolourization of synthetic dyes by different species of <i>Aspergillus niger</i>
2.	2007- 2008	Decolourization of textile reactive dyes using cyanobacteria and FT-IR analysis.
3.	2008- 2009	Production of polyhydroxy butyrate from <i>Azotobacter chroococcum</i>
4.	2009 -2010	Production of polyhydroxy butyrate using different carbon sources
5.	2011-2012	<ul style="list-style-type: none">• Biodegradation of paranitrophenol by <i>Rhodococcus imtechensis</i>• Production of poly hydroxyl alkonates by <i>Rhizobium meliloti</i>
6.	2012 - 2013	Microbial production of PHA utilizing coir pith as a substrate.

UG Projects

S. No	Academic year	Title of the project
1.	2010 -2011	Immunomodulatory effects of <i>Sargassum polycystum</i> on <i>oreochromis mosambicus</i> (peters)
2.	2011- 2012	Estimation of calcium level in Diabetes mellitus patients in Madurai. Entrepreneurship development training (SIPPO)
3	2012 – 2013	Antibacterial potential of honey samples against strains of <i>Escherichia coli</i> , <i>Staphylococcus</i> sp., <i>Bacillus</i> sp., and <i>Pseudomonas</i> sp.,
4.	2013 – 2014	Assessment of physical activity, nutrition and Body mass index among the undergraduate students of Lady Doak College. Phytochemical screening of secondary metabolites in <i>carica papaya</i> .
5.	2018- 2019	Coffee husk as substrate for the production of citric acid in solid state fermentation process

13. Conferences, Workshops, training attended

Workshop/ Conference attended:

Regional level:

- Short duration Lecture workshop on “**Biological Sciences**”, organized by Department of PG department of zoology, Vivekananda College, Tiruvedagam, Madurai (March 12th & 13th, 2009.)
- Workshop on “**Being an effective teacher**”, organized by Lady Doak College, Madurai. (June 8th to June 11th, 2009).
- Workshop on “**Being an effective teacher**”, organized by Lady Doak College, Madurai. (June 7th to June 10th, 2011).
- State level workshop of “**Good Laboratory Practices**” organized by PG Department of zoology, Lady Doak College, Madurai (October 14th, 2011).
- Workshop on “Personal Effectiveness”, organized by the Centre for Human Resource Development, Lady Doak College, Madurai. 12th and 13th December, 2011.
- Prof. Whitin Endowment Lecture Series One Day Seminar on “Molecular biology: Problems to Problem solving” organized by PG and Research Department of Zoology, Lady Doak College, Madurai. October 16th 2012.
- UGC sponsored Workshop on “Data Handling” organized by PG and Research Department of Zoology, Lady Doak College, Madurai. 16th – 19th January, 2013.
- Seminar on “Enriching Environmental Education: A National Consultation on promoting Environmental Education in Higher Education Institutions” organized by Centre for Environmental Studies, Lady Doak College, Madurai. 7th and 8th February, 2013.

- One Day seminar on “Cancer in Women” organized by PG and Research Department of Zoology, Lady Doak College, Madurai. 20th September, 2013.
- UGC Sponsored Faculty Development programme on “Small Business Management” organized by Alagappa Institute of Management, Karaikudi. 14th and 15th, March 2014.
- State-level Seminar on “ New Teaching Materials for the New Age” Organized by the Department of English and Internal Quality Assurance Cell, G. Venkataswamy Naidu College, Kovilpatti. 11th October, 2014.
- Prof. Whitin Endowment Lecture Series One Day Seminar on “Taking Research from Bench to Bed Side”. Department of Botany, Zoology, Biotechnology, 23rd Feb. 2015.
- Prof. N. Whitin Endowment Lecture series One-day seminar on “Conserve today for a better tomorrow.” Department of Zoology & Biotechnology, LDC. 22nd Sep. 2016.
- Workshop on “Applications of Bioinformatics Tools in Molecular Taxonomic Studies” organized by the DBT-BIF centre, Department of Biotechnology, Lady Doak College, Madurai. (20th -23rd February, 2017).
- Prof. N. Whitin Endowment Lecture series, One-day Lecture series on “ Nanotechnology: New Perspectives in Biomedical Applications”. PG and Research Department of Zoology and Biotechnology, Lady Doak College, Madurai. 18th August, 2017.
- Prof. N. Whitin Endowment Lecture series, One-day Lecture series on “ Wild Life – Past, Present and Future”. PG and Research Department of Zoology and Biotechnology, Lady Doak College, Madurai. 20th September, 2018.
- Workshop on “Pragmatic Approach to Plastic Waste Management”. Centre for Environmental Studies, Lady Doak College, Madurai. 26th February, 2019.
- Regional Seminar on ‘ IPR and Patents: Prospects and Challenges’. PG and Research Department of Zoology, Lady Doak College, Madurai. 30th July, 2019.
- Prof. N. Whitin Endowment Lecture series on “ Insights on Women’s Health and Well-being”. Department of Biotechnology and PG and Research Department of Zoology, Lady Doak College, Madurai. 22nd August, 2019.

National level:

- National level symposium on “**New Horizons in Bioinformatics**”, organized by Department of Bioinformatics, Bharathiyar university, Coimbatore (Sep 24th 2008).
- National seminar on “**Frontiers in Nanotechnology**”, organized by Department of Lady Doak College, Madurai (Sep 17th & 18th, 2009)

- National Seminar on “ **Challenges in Animal Biotechnology and Environmental management Research**” organized by Department of Animal sciences, Bharathidasan University, Tiruchirappalli. 23rd June, 2011.
- Workshop on “ Research Methodology” organized by Asian Centre for Cross-Cultural Studies (ACCS), Chennai. 15th -17th November, 2012.
- National seminar on “Emerging Trends in Biological Research” Phase – II(UGC sponsored) organized by PG and Research Department of Zoology, Lady Doak College, Madurai.(16th and 17th , September, 2014).
- UGC-SERO sponsored National Seminar on “Current Research in Microbiology – 2015” organized by Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi. 19th and 20th March, 2015.
- National level workshop on “Gas Chromatography (GC-DMB-2016)” organized by Department of Microbiology, Alagappa University, Karaikudi. 15th December, 2016.
- National level workshop on recent trends in molecular biology and Bioinformatics’ (RTMBB -2016) organized by PG and Research Department of Zoology and DBT-BIF centre, Lady Doak College, Madurai on 5 -7th January, 2017.
- National level workshop on “Conventional and Modern taxonomical tools in faunal identification” organized by PG and Research Department of Zoology, Lady Doak College, Madurai. 4th and 5th October, 2017.
- National Seminar on “Recent trends in Medical Physics” organized by Department of Physics, Lady Doak College, Madurai. 12th and 13th December, 2017.
- National Seminar on “Innovations in Plant science, Soil health and Agriculture” Department of Botany and Microbiology, Lady Doak College, 12th December, 2019.

International level:

- International conference on “Global competitiveness in Biology, Chemistry and Environment: for a better tomorrow”, organized by Department of Biochemistry, Rev. Jacob Memorial Christian College, Santhipuram, Ambilikkai. (3rd February 2011).
- International conference on “Science, Society and Sustainability- Many Species, one Planet for Posterity” organized by Lady Doak College, Madurai. 11th to 13th January, 2012.

14.Paper presentation:

- **S. Lakshmi Subha and C.K.Chitra prabha** presented a paper on “ Production of Poly-hydroxybutyrate from Azotobacter chroococcum” at the International conference on “Global competitiveness in Biology, Chemistry and Environment: for a better tomorrow”, organized by Department of Biochemistry, Rev. Jacob Memorial Christian College, Santhipuram, Ambilikkai. (3rd February 2011).
- **S. Lakshmi Subha**, Dr. W. Isabel and Dr. A.S. Priscilla presented a paper on “**Production of enzyme cocktails for lignocellulose hydrolysis by solid state fermentation**” at the International Conference on “Converging Biotechnological Innovations for Health, Food and Environmental welfare” held on 1st to 3rd December 2015 in Karunya University, Coimbatore, Tamil Nadu.

- **S. Lakshmi Subha**, Dr. W. Isabel and Dr. A.S. Priscilla presented a paper entitled on **“Enhanced production of biogas using biologically pretreated coir pith as a substrate in Batch fermentation”** at UGC sponsored National Conference on HBIETC-2017, held on 17th and 18th August, 2017 in A.V.V.M Sri Pushpam College, Poondi, Thanjavur, Tamil Nadu.

15. Training attended:

- Ubuntu training on 22.7.2013, Lady Doak college, Madurai.
- Hands on training on Moodle on 5.8.2014, organized by Lady Doak College, Madurai.
- One day training on Sericulture at Research Extension Centre, Sericulture farm, Samayanallur, Madurai on 23.9.2017.

16. Resource Person:

- Resource person in the Hands-on Training – ‘Techniques in Molecular Biology’ (TMB-2015) Organized by the Department of Zoology, Lady Doak College, Madurai. 2nd – 4th December, 2015.
- Acted as Judge in the SCOPE- Special Project Presentation at District Level conducted at Pandian Nedunchezhan Corp.HSS, Madurai. 25th February 2019.

17. Contributions to innovations in teaching:

- **OHP and PowerPoint Presentations**, computer aided teaching of different courses.
- **Organized Seminars** for fast learners.
- Arranged guest lectures for some courses.
- Apart from lecturing, charts,
- models & slides were prepared and used.
- Discussions, debates and seminars were also conducted
- Concept maps, mind maps, Cross word puzzles and word scrambles

18. Preparation of resource material

- **Reading materials were prepared** for the newly introduced optional course – Public Health and Hygiene.
- **Lab manual partly prepared – Lab in Plant and Animal Biotechnology**
- **Lab manual partly prepared – Lab in clinical diagnostics**

13. Other Important Contributions (Inside the College)

- Handled Value Education Courses – In tune with Nature
- Handled – self learning courses – Wild life in India, Bird watching

The above mentioned information is true to the best of my knowledge.

S. Lakshmi Subha