

## CURRICULUM VITAE

### Personal Details

Name: Dr. Christynal Oliviya R.

Mobile: 9842865650

Mail ID: [christynaloliviya@ldc.edu.in](mailto:christynaloliviya@ldc.edu.in)

### Academic Profile

Ph.D	Biochemistry	Bharathiar University, Coimbatore The Dissertation is <b>-Highly Commended</b> ” by both National and International Examiners
SET	Cleared in Life Sciences	Conducted by Mother Teresa University, 2016
M.Phil	Biotechnology	Bharathidasan University, Trichy
M.Sc	Biochemistry	V.V.Vanniaperumal College for Women, Virudhunagar
B.Ed	Biological Sciences	Madurai Kamaraj University, Madurai
B.Sc	Biochemistry	V.V.Vanniaperumal College for Women, Virudhunagar

### Technical Qualification

Cleared

1. P.G.D.C.A
2. Typewriting-English Junior Grade

### Christian Leadership Training

Completed the Haggai Leader Experience and complied with all requirements of Haggai International from 24th September 2022 to 19th November 2022

### Teaching Experience

Position	Organization	Duration		Experience
		From	Date	
Assistant Professor of Biotechnology	Lady Doak College, Madurai	22.11.2007	Till date	16 years
Assistant Professor of Biochemistry	C.S.I College of Arts and Science, Madurai	01.08.2005	17.11.2007	2 years 3 months
Assistant Professor of Biochemistry	Idhaya College for Women, Sarugani	01.06.1999	31.05.2005	6 years
Lecturer in Biochemistry	Matha College of Arts and Science, Manamadurai	17.06.1998	31.05.1999	1 year

## Field of Specialization

Biochemistry, Environmental Sciences, Enzymology, Environmental Management  
Pollution & Remediation, Nutrition & Medicine

## Honors/ Awards

S.No.	Name of the Award	Awarded by	Year
1.	Best socially relevant project award for “A comparative study on the effect of two different composts (Vermicompost & Kitchen waste compost) in the growth and yield of selected edible plants ( <i>Solanum lycopersicum</i> and <i>Abelmoschus esculantus</i> )”	Lady Doak College, Madurai	2016-17
2.	Best socially relevant project award for “A study on the effect of potential waste management strategies to enhance the local environmental quality and public health in Karumbalai Village, Madurai District”	Lady Doak College, Madurai	2017-18
3.	Best socially relevant project award for “Waste transformation—an ecofriendly and income generating activity towards sustainable solid waste management”	Lady Doak College, Madurai	2018-19
4.	Best socially relevant project award for—A documentary film making on -Bitter Truth to create awareness on solid waste management”	Lady Doak College, Madurai	2020-21
5.	Best socially relevant project award for “Redefined product development with solid waste ingredients”	Lady Doak College, Madurai	2023-24

## Publications

1. Ananthalakshmi, Valliammal, **Christynal Oliviya R.** (2011). A study on bio ethanol production from banana agro-wastes and molasses by *Zymomonas mobilis* and comparing its efficiency with *saccharomyces cervisiase*, ASPIRE, Arts & Science Publication in Research in-HOUSE Journal, Lady Doak College, Madurai. Vol. 2, ISSN: 2229– 4953
2. **Christynal Oliviya R.** (2015). Production of ecofriendly silver nanoparticle and evaluation of its potential antimicrobial activity. *International Research Journal of Pharmacy and Technology* Vol.8, Issue:10, (1374-1378) Print ISSN:0974-3618. Online ISSN:0974-360X. Article DOI:10.5958/0974-360X.2015.00246.3  
SNIP:0.135, SJR:0.149, H Index: 5

3. **Christynal Oliviya. R** (2016). Production of Biogas from Selected Vegetable Wastes Collected From the Markets of Madurai,TamilNadu, *Imperial Journal of Interdisciplinary Research, (IJIR)* 2(11) 2454-1362, ISSN:2454-1362, <http://www.onlinejournal.in>
4. **Christynal Oliviya. R**, Krishnakumari. S and Research and Development Centre, Bharathiar University, Coimbatore (2018). Fine Scale Characterization of Green Synthesized Silver Nanoparticle using *Abelmoschus esculentus*, *International Journal of Advance and Innovative Research*, Volume5, Issue4, Impact Factor:7.12, ISSN:2394-7780, Pg: 30-36
5. **Christynal Oliviya. R**, Krishnakumari. S and Research and Development Centre, Bharathiar University, Coimbatore (2018). Anti-Diabetic Activity of *Abelmoschus esculentus* and its Nanoparticle – A Comparative Study, *International Journal of Research and Analytical Reviews*, Volume 5, Issue 4, Impact Factor: 5.75, E-ISSN2348-1269, P-ISSN 2349-5138, Pg: 415-421.
6. **Christynal Oliviya. R**, Krishnakumari. S and Research and Development Centre,Bharathiar University, Coimbatore (2018). Synthesis and Characterization of Plant Mediated Silver Nanoparticle as an Effective Antioxidant, *International Journal of Emerging Technologies and Innovative Research*, Volume 5, Issue 7, Impact Factor:5.87, ISSN-2349-5162, Pg: 78-83.
7. **R. Christynal Oliviya**, (2019)."Synthesis of Plant Mediated Metal Nanoparticle and Assessment of its Antibacterial Activity."*International Journal of Research in Advent Technology (IJRAT)*, Volume-7 Issue-2, February, pp. 21-25. Impact Factor:5.153,doi10.32622/ijrat.71201988.
8. **Christynal Oliviya R.** and Dayana Devi A. (2022). Defense potential of *Solanum surattense* and *Senna alexandrina* against Urolithiasis - An *Invitro* approach, *World Journal of Pharmaceutical Research*, Volume: 11, Issue: 11, Impact Factor: 8.084, ISSN: 2277-7105, Pg: 1338-1344, DOI: 10.20952/wjpr202211-25125

## Paper/ Poster Presented

S.No.	Details of Presentation	Level
1.	Preservation and Conservation of Eco-historic and Cultural heritage of West Bengal at UBCHEA sponsored National workshop on Networking on Eco-historic and Cultural Heritage of India 24 <sup>th</sup> &25 <sup>th</sup> January2017 organized by Lady Doak College, Madurai.	International
2.	Synthesis and Characterization of Plant Mediated Silver Nanoparticle as an Effective Antioxidant International Conference on Engineering Technology, Science and Management Innovation, on22July2018, MahrattaChamberOfCommerceIndustries & Agriculture, Senapati Bapat Road, Pune, Maharashtra.	International
3.	PreparationofLowCostBiosorbentsandtheirEffectsontheremovalofHeavyMetalsandDecolourationofEffluentsatProteo fest 2014, National Seminar on Global Opportunities for Recent Developments in Science and Technology sponsored by CSIR organized by Department of Biochemistry Rev. Jacob Memorial Christian College, Ambilikai, TamilNadu on8th February, 2014.	National
4.	A Study On The Effect Of Trichloroethylene Contaminated Water in <i>Oreochromis Mossambicus</i> (MOSAMBIQUETilapia) at UGC sponsored National Seminar on Water Resources Management in Tamil Nadu on 6 <sup>th</sup> March 2014, Organized by P.G Department of Zoology, Jamal Mohamed College, Trichirapalli.	National
5.	Developing entrepreneurship through Solid Waste Management – Turning Challenges into opportunities on 28 <sup>th</sup> and 29 <sup>th</sup> February2020, A National conference on Service – Learning: A sustainale Pedagogy? By Christ (Deemed to be University), Bannerghatta Main Road Campus, Bengaluru, Karnataka.	National
6.	Poster presented on- Production of organic Compost from kitchen waste and Evaluation of its Efficacy in the Growth and Yield of Selected Edible Plants ( <i>Solanum lycopersicum</i> and <i>Abelmoschus esculantus</i> ) for the Public Consumption at International conference on – New horizons, emerging challenges and recent paradigms in food mediated immunity and their role in human health and longevity conducted by the PG & Research Dept of Zoology and Department of Immunology and Microbiology, The American College Madurai on31August-1September-2016.	International

## Research Projects

S.No.	Title of the Project	Sponsor	Duration of the Project	Amount in Rs.
1.	Anaerobic digestion of Kitchen waste and Leaf litter for the Production of Biogas and Installation of an Institutional level Biogas Plant – A pilot study	Lady Doak College, Madurai (Institutional Research Project)	1 year	30,000

## Seminar/Conference/Workshop Organized

1. Organizing Secretary - Seminar on –Taking Research from Bench to Bed side held on 23rd February 2016
2. Organizing Secretary – One day Workshop on Microtomy-an experiential learning for Life Science faculty held on 24<sup>th</sup> February 2020.
3. Convened Faculty development programme on Industrial visit and training on Drug in traditional medicine at AVR research Institute, Madurai on 03.03.2023

## Training Attended

### 1. Advanced Biochemistry laboratory Training workshop

Conducted by Department of Biochemistry, School of biological Sciences, Madurai Kamaraj University, Madurai.– 15 days programme.

#### The programme includes:

- SDS-PAGE analysis and Western blotting
- Southern and Northern blotting & specific probe hybridization
- Plasmid isolation and T<sub>m</sub> calculation
- Gene cloning in blue script and specific selection and series of special lectures.

2. Hands on Practice -Technical update seminar on Cutting Edge Molecular Techniques, organized by Eppendorf India Limited-One day training.

The training covers:

1. PCR and its applications-theoretical approach

2. Practical session on PCR

3. Lx-Training, CHRD, Lady Doak College, Madurai, 3.6.2016

4. Training on Inclusive India -The constitution & Legal space for Nation Building, Dr. A.K.Tharief Chair for Reconciliation at ICOSA- Paripurnacentre, Manappakkam, Chennai, ICOSA- Paripurnacentre, Manappakkam, Chennai, 26th-29th September 2018

5. Hands on training on The interpretation of Electrochemical Impedance and TEM data on 24.1.2019 organized by PG and Research Department of Chemistry, Lady Doak College, Madurai.

6. Hands on training on Microtomy-an experiential learning for Life Science Faculty held on 24.2.2020 organized by Department of Biotechnology, Lady Doak College, Madurai.

7. Five day Faculty Development programme on Python programming, ICT Academy, 26.8.2019 – 30.8.2019.

8. A three day Faraday course on Science and Faith, The Faraday Institute Madurai course, 25<sup>th</sup>– 27<sup>th</sup> November 2019.

9. Workshop cum Training program on HPTLC sponsored by DST -FIST program 2019 from 9th to 11th August, 2021. Application scientist Mr. Amit Palade from CAMAG HPTLC SYSTEM, Anchrom Enterprises Pvt Ltd, Bangalore.

### **Course Completed**

Successfully completed an online course on-Introduction to Professional Scientific Communication Jan-Feb 2021.

### **Projects Guided**

No. of PG Projects: 38

No. of UG Projects: 33

## **Resource Person**

1. Delivered a guest lecture on Frontier Areas in Biochemistry on 5.8.2016 at C.S.I College of Arts and Science, Madurai
2. Joint Convener- School teachers' training programme TNSCST Sponsored In-service Training Programme for School Teachers from 28<sup>th</sup>August to 1<sup>st</sup>September 2017.
3. Co-trainer- National level workshop on -Animal cell culture techniques 4<sup>th</sup>-8<sup>th</sup>September 2017, Sponsored and supported by DBT, TNSCST, NCSTC & DST-GOI, organized by Department of Biotechnology, Lady Doak College, Madurai.
4. Delivered a guest lecture on Opportunities in Biochemistry on 13.2.2018 at C.S.I College of Arts and Science, Madurai
5. Member of the Organizing Committee for the International Online Faculty Development Programme on-Strategic Approach to Online Teaching organized by Online Education Committee, Lady Doak College, Madurai from 13th to 17th July 2020.
6. Member of Board of Studies as meritorious alumnae for the Department of Biochemistry, V.V.Vanniaperumal College, Virudhunagar.
7. Member of Organizing Committee for the Faculty Development Programme on FDP-MOOC Development and Delivery on 23.03.2021
8. Member of Organizing Committee for the Workshop on Designing online course for LDC on 19.12.2022
9. Member of Organizing Committee for the International Conference on New Avenues in Applied Sciences on 02.02.23 and 03.03.23
10. Member of Organizing Committee for the Seminar on Prof. Whitin Endowment Lecture series 2023 on 25.08.23
11. External Examiner for Arts and Science Colleges
12. Served as reviewer for
  1. Journal of NanoParticle Research
  2. Agricultural Science Research Journal
  3. International Journal of Annual Research & Review in Biology
  4. Journal of Advances in Medicine and Medical Research
  5. International Journal of Tropical Disease and Health
13. Member of Board of Studies as meritorious alumnae for the Department of Biotechnology, V.V.Vanniaperumal College, Virudhunagar.

### **Other Contributions towards Academic and Extension activities**

1. Joint Convener-Environmental Awareness Programme (2009-2012)
2. Member-Centre for Environmental studies 2013– 2016
3. Member-Women Studies Club 2017-2018
4. Member-Indian Academicians and Researchers Association in recognition of commitment to Educational Research and the objectives of the Association. Membership No: M / M – 934
5. Member– College Prizes Committee 2019-till date
6. Member-Online Education Committee 2019-20
7. Member–Centre for Communication and media 2020-23
8. Member- Audio-Visual Cub 2022-23
9. Member – Research and Development Cell 2023-till date
10. Life member–Experts of Academic Excellence Research Centre
11. Alumnae representative of the Department 2023 -till date

### **E-Content Developed**

#### **Educational Videos**

1. Two videos were prepared on waste management and its implementation strategies
2. A video was prepared on Preservation and Conservation of Eco-historic and Cultural Heritage of West Bengal.

#### **Documentary Film**

Directed a documentary film on –"BITTER TRUTH" to create awareness on Solid Waste management

#### **Animated Video**

Directed an animated video titled –"Is that important to manage waste" for children to

create awareness on waste management.

### **E-manual**

Prepared an E-manual on Steps involved in preparation of animated video

### **Educational GIFs**

Developed for Physiology course

### **Virtual Labs**

Created for the following Experiments

1. Determination of Bleeding time
2. Determination of Clotting time
3. Blood pressure measurement
4. Observation of Haemin Crystals
5. Determination of Erythrocyte Sedimentation rate

## **No. of Seminar / Conference / Workshop / Training Participated**

### **International Level:**

1. International Conference on Science, Society, and Sustainability held at Lady Doak College Madurai between 11<sup>th</sup>-13<sup>th</sup> January 2012.
2. Enriching Environmental Education: A National Consultation on Promoting Environmental Education in Higher Education Institutions held at Lady Doak College Madurai between 7<sup>th</sup>&8<sup>th</sup> February 2013.
3. International online Faculty Development Programme on Strategic Approach to online Teaching, 2020-07-13 -2020-07-17, Lady Doak College, Madurai.
4. International Conference on Research Avenues in Biochemistry, 2020-06-11 - 2020-06-12, The American College, Madurai.
5. Virtual conference on " Immune Boosting Diet for COVID-19", 21st May 2020 The American College, Madurai
6. International workshop on-Creating Interactive E-Resources and Gamification, 17<sup>th</sup>-21<sup>st</sup> May 2021, Universal Teachers Academy, Puducherry, India.
7. Two-day Capacity building workshop for Faculty on SDGs and CBPR through service learning, 23 & 24.08.2022 International study Centre & Life Frontier Engagement Centre, UBCHEA, Lady Doak College, Madurai
8. Five Day International Faculty Development Programme on Soft Skills for Capacity Building organized by Joseph's Academy of Soft Skills (JASS), St. Joseph's College (Autonomous), Tiruchirappalli, Tamil Nadu, India from 25.9.2023 to 29.9.2023.

### **National & State Level:**

1. Seminar and symposium on Microbiology conducted by Senthikumar Nadar College, Virudhunagar.
2. National Symposium on Applications of Systems Biology organized by PG and Research Department of Zoology and Biotechnology held during 10<sup>th</sup> and 11<sup>th</sup> January, 2008.
3. Patent awareness programme at Yadhava College, Madurai on 9<sup>th</sup> April, 2008.
4. Two-day workshop on- Effective teaching of Value based courses held on 9<sup>th</sup> & 10<sup>th</sup> June, 2008 organized by Lady Doak College, Madurai.
5. A State level Seminar cum Workshop on-Environmental Stewardship in Recycling of Resources, Waste Minimization and Management sponsored by UBCHEA, TNSCST- Chennai, UGC, NCSTC – New Delhi held during 25 & 26<sup>th</sup>, February 2009.
6. National level workshop on PCR and its Applications in Biological Research organized by DBT-BIF, Department of Biotechnology, Lady Doak College held during 25<sup>th</sup>-27<sup>th</sup> March 2009.
7. A seminar on -Challenges faced in combating viral infections in today's health scenario || -Prof. Whitin Endowment Lecture Series held on 16<sup>th</sup> February, 2010.
8. National Level Workshop on -Techniques in Animal Cell Culture || organised by Department of Biotechnology, Lady Doak College, Madurai held from 22<sup>nd</sup> – 26<sup>th</sup> February 2010.
9. Workshop on-Environmental Research || sponsored by UBCHEA held on 10<sup>th</sup> & 11<sup>th</sup> March, 2011.
10. Two day workshop on -Personal Effectiveness on 12<sup>th</sup> & 13<sup>th</sup> December 2011 organized by the centre for Human Resource Development Lady Doak College.
11. Workshop on -Carbon Foot printing on 12<sup>th</sup> June 2012 organized by Centre for Environmental studies, Lady Doak College, Madurai.
12. One day workshop on Molecular Biology: Problems and Problem Solving || - Prof. Whitin Endowment Lecture Series held on 16<sup>th</sup> October 2012
13. Workshop on-Data handling || on 16<sup>th</sup> January-19<sup>th</sup> January 2013 organized by Lady Doak College, Madurai.
14. UBCHEA sponsored Programme- Enriching Environmental Education: A National Consolation on Promoting Environmental Education in Higher Education Institutions held in 7<sup>th</sup> & 8<sup>th</sup> February 2013, organized by the centre for Environmental studies, Lady Doak College.
15. One day seminar on -Cancer in Women on 20<sup>th</sup> September 2013.
16. National Seminar on Nutraceutical and Therapeutic value of Traditional Foods (catalyzed and supported by TNSCST, Govt of Tamil Nadu, CSIR & UGC –Autonomy Grant) held on 30<sup>th</sup> & 31<sup>st</sup> January, 2014.

17. CSIR sponsored National conference on Global Opportunities For Recent Development in Science and Technology organized by Jacob Memorial Christian College, Ottanchathiram on 8th February 2014.
18. UGC sponsored National Seminar on Water Resources Management in Tamil Nadu (WARM 2014) organized by the Post Graduate of Zoology, Jamal Mohamed College, Trichirappalli held on 6th March, 2014.
19. Science Academies' Education Programme on Climate change studies: An organismal Approach organized by Sathyabama University, Chennai during 27th – 28th March 2014.
20. UBCHEA sponsored training programme on Environmental Impact Assessment held from 9th – 12th July 2014 organized by Centre for Environmental studies, Lady Doak College
21. UGC sponsored National Seminar on Emerging Trends in Biological Research || Phase II – Pro. Whitin Endowment Lecture Series
22. One day Training Workshop on Advanced Biotechnological Techniques with special emphasis on Fluorescence Imaging system and qPCR organized by the Department of Biotechnology in collaboration with Biorad Laboratories on 6th January 2015.
23. One day Seminar on Taking Research from Bench to Bedside – Prof. Whitin Endowment Lecture Series held on 23rd February 2016.
24. Science Academics Lecture Workshop on 'Advance in Bioscience' sponsored by Indian Academy of Science (IASC), Indian National Science Academy (INSA) and National Academy of Sciences (NASC) on 3rd and 4th March, 2016.
25. National workshop on Networking on Ecohistoric and Cultural Heritage of India || Centre for Environmental Studies sponsored, Lady Doak College, Madurai by United Board Christian Higher education in Asia, 24<sup>th</sup> and 25<sup>th</sup> January 2017.
26. One day Workshop on Microtomy – an experiential learning for Life Science faculty held on 24<sup>th</sup> February 2020 at Lady Doak College, Madurai.
27. "Therapeutic effect of Caveolin -1 Scaffolding domain peptide 7 on silica - induced Pulmonary fibrosis, 11th May 2020, Lady Doak College, Madurai
28. Online Webinar on Building a competent CV, 8th May 2020, Lady Doak College, Madurai
29. Online Webinar on Plant Molecular Biology in Space, 30th April 2020, Lady Doak College, Madurai
30. Online Webinar on Immune evasion: a strategy employed by the oncogenes to drive cancer progression, 18th May, 2020, Lady Doak College, Madurai
31. Online Webinar on Battling Glioblastoma and Breast cancer: A novel Alkylaminophenol

- derivative as a potent anti-cancer agent, 19th May, 2020, LadyDoakCollege, Madurai.
32. Online Webinar on Molecular Diagnostic Methods in COVID-19, 13th May, 2020, LadyDoak College, Madurai
  33. Online Webinar on "Clear CSIR-NET with 130+ marks", 18th May 2020, Lady DoakCollege, Madurai
  34. Online Webinar on "Kavipadalam vaanga", 2nd May, 2020, Arasu women's college of Arts and Science, Karur
  35. COVID19 LOCKDOWN: What Next?, 11th May 2020, ICT Academy, Karnataka
  36. Perspectives on Learning, 2020-05-28, G.T.N. College, Dindukul.
  37. Insights into Emerging Diseases – Diagnosis and Therapeutics, 2020-06-01, LadyDoakCollege, Madurai
  38. Usage of ICT Tools for Effecting Learning and Evaluation, 2020-06-01-2020-06-05, St. Joseph Degree & PG College, Osmania University, Hyderabad.
  39. ICT A Novel Mean to Fortify the Faculty in Life Sciences. | 2020-06-08-2020-06-09, Aurora's Degree & PG College, Chikkadpally, Hyderabad.
  40. Intellectual Property Rights, 2020-06-13 Navodaya Institute of Technology, Raichur, Karnataka.
  41. Blended Learning, 2020-06-13, SNDT Women's University, Mumbai.
  42. Continuous Assessment in online Teaching, 2020-08-26, Lady DoakCollege, Madurai.
  43. Virtual workshop on – Addressing Sustainable Development Goals through Life Frontier Engagements Projects | organized by the centre for Life Frontier Engagement (LiFE), LadyDoak College, Madurai on 29.07.2021
  44. Faculty Development Webinar under UGC Paramarsh Scheme on the topic – The Impact of Social Isolation on Eating Behaviour and Nutrition |, 28.09.2021, Standard Fireworks Rajaratnam College for Women, Sivakasi.
  45. We think Digital – Digital Sakthi 3.0 Webinar on 08.10.2021 jointly organized by National Commission for Women, Facebook, Cyberpeace Foundation & Autobot Infosec

### **Regional Level**

1. Workshop on Google classroom, CHRDLDC, 8–9<sup>th</sup> June, 2017.
2. Indo-UK workshop on Data analysis in Vibrational spectroscopy and Mass spectrometry based metabolic profiling organized by Department of Botany, LadyDoakCollege, DBT-BBSRC Major Research Project, 22, 23<sup>rd</sup> August 2017.
3. Ms. Whitin Endowment Lecture series on 'Wildlife-Past, Present and Future' organized by PG & Research Dept of Zoology and Dept. of Biotechnology, 20th September 2018.

4. Advanced Leadership Seminar for Evangelism (Area level), Haggai, India, 18.7.2019.
5. Insights on Women's Health and Well being- Prof. Whitin Endowment Lecture series, organized by Dept. of Biotechnology and PG & Research Dept of Zoology, 22.8.2019.
6. Phase II Workshop I "Two-day Workshop cum Field Study on Analysing the Impact of SDGs in Community through select Tools" organized by UBCHEA and DHAN foundation on 19.01.23 & 20.01.23
7. Workshop on Grant writing for Research, sponsored by R&D, IQAC and Lady Doak College
8. One day workshop on Content creation for online courses organized by OEC & CCM on 24.03.2023
9. Orientation Programme on Peace Education for VBC/IVBC Facilitators sponsored by UBCHEA in collaboration with Lady Doak College on 07.09.2023
10. Capacity building workshop for faculty on the "Nuances of Publishing Service – Learning Research, UBCHEA on 21.11.2023