

## Curriculum Vitae

1. **Name/ Surname:** LOVE EDET MENDIE

2. **Date of Birth:** 23 – 09 – 1988

3. **Title:** Dr

4. **Educational Status:**

Degree	Department	University	Year
Bachelors	Biochemistry	Madonna University, Elele, Rivers State, Nigeria	(2010 – 2013)
Postgraduate Diploma	Education	National Teachers' Institute, Kaduna, Nigeria. Affiliated to National Open University of Nigeria	2015
Masters	Biochemisrty	University of Madras, India	(2016 – 2018)
PhD	Life Sciences	B.S Abdur Rahman Crescent Institute of Science and Technology, Chennai, India	(2019 – 2023)

5. **Academic Titles:**

Doctorate date : 19 – 04 – 2023

6. **Publications**

6.1 **Articles published in internationally refereed journals (SCI/SCIE & SSCI & Arts and Humanities)**

1. **Love, E. M., & Hemalatha, S. (2023).** Toxicity evaluation, plant growth promotion, and anti-fungal activity of endophytic bacteria-mediated silver nanoparticles. *Applied Biochemistry and Biotechnology*. <https://doi.org/10.1007/s12010-023-04383-3>
2. **Love Edet. M., Hemalatha S. (2023).** Identification of natural CTXM-15 inhibitors from aqueous extract of endophytic bacteria *Cronobacter sakazaki*. *Brazillian Journal of Microbiology*. <https://doi.org/10.1007/s42770-023-00945-z> .
3. **Mendie, L.E., & Hemalatha, S. (2022).** Bioactive Compounds from *Nyctanthes arbor tristis* Linn as Potential Inhibitors of Janus Kinases (JAKs) Involved in Rheumatoid Arthritis. *Applied Biochemistry and Biotechnology*. 195, 314-330. <https://doi.org/10.1007/s12010-022-04121-1>

4. **Mendie, L. E.,** & Hemalatha, S. (2022). Molecular docking of Phytochemicals targeting GFRs as therapeutic sites for cancer: An *In silico* study. *Applied Biochemistry and Biotechnology*. **194** (1), 215-231. <https://doi.org/10.1007/s12010-021-03791-7>
5. **Love Edet M.,** & Hemalatha, S. (2022). Biomedical Application of Novel green biomaterial synthesized from endophytic bacteria *Cronobacter sakazakii*. *Inorganic and Nano-metal chemistry*. <https://doi.org/10.1080/24701556.2022.2078367>
6. Sundararajan R, **Mendie EL,** Mittal L, Varadarajan GS, Camarillo IG, Srinivasan H, & Sundararajan R (2021). Medicinal and Nutritional Wonders of Miracle *Moringa oleifera Lam.:* Another Look. *Indian Journal of Pharmaceutical Education and Research*. 55(2s): s345-s352. <https://doi.org/10.5530/ijper.55.2s.105>

## 6.2. Articles published in other internationally refereed journals

1. Antony Jenish A, Edet Love Mendie and S. Hemalatha: Role of Plant Compounds, Alternative medicine and diet to improve mental wellness. *Biointerface Research in Applied Chemistry* (SCOPUS Indexed). Accepted 2022.
2. Abdul Matheen, Edet Love Mendie and S. Hemalatha: Biological toxins as therapeutic challenge against antibiotic resistant CTX-M-15 encoding bacteria. *Biointerface Research in Applied Chemistry* (SCOPUS indexed). Accepted 2022.

## 6.3. Papers presented at international scientific meetings and published in proceedings

### 6.3.1 Papers presented at international scientific meetings

1. **Love Edet M** and S. Hemalatha, “Biomedical application of silver nanoparticles biosynthesized from bacteria endophytes *Bacillus cereus*”. International Conference on Advances and Applications of Biotechnology (ICAAB 2024), organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai in association with University of East London, UK, Tamil Nadu State Council for Science and Technology, National Council for Science & Technology Communication, Department of Science and Technology, Govt. of India held on July 30 & 31, 2024
2. **Love Edet M** and S. Hemalatha “Anticancer and anti-diabetic activity of Endophytic Bacteria Mediated- Silver Nanoparticles.” 4th Annual International Conference on Applications of Millets and Probiotics on Cancer Therapy and Management (ICAMP 2024), organized by School of Life Sciences and Association of Cancer Education and Research

(ACER), B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India in association with Purdue University, USA held on January 30 & 31, 2024.

3. **Love Edet M** and S. Hemalatha. Natural compounds identified from endophytic bacteria as potent anticancer agent: An *In-silico* study. 3rd International Conference On Applications of Natural compounds, Nanomaterials, Oncolytics in Cancer Biology and Biotechnology (ICANNOCB), BSAR Crescent Institute of Science and Technology, Chennai in association with Association of Cancer Education and Research (ACER) and Purdue University, USA, October 27-28, 2022.
4. **Edet Love Mendie** and S. Hemalatha. Toxicity evaluation of novel AgNPs synthesized from endophytic bacteria and its anti-phytopathogenic potency. International conference on Current Trends in Biomedical Research “ICTBR 2K22” in association with Society for Medical, Biological & Pharmaceutical Sciences (SMBPS), organized by the Research Department of Pharmacology, Saveetha Dental College & Hospitals, SIMATS, Chennai, 30<sup>th</sup> September 2022.
5. **Love Edet Mendie** and S. Hemalatha. Ethnobotanical Study of Medicinal Plants in Africa used in the Treatment of Dementia: A Review. Virtual International Conference on Novel and Alternative Therapeutics for Neurodegenerative Diseases Mediated Through Unfolded Protein Response (UPR), organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India, sponsored by International Brain Research Organization (IBRO) in association with TNSCST, from 20<sup>th</sup> September to 23<sup>rd</sup> September, 2021.
6. **Edet Love Mendie** and S. Hemalatha. Molecular Docking of Phytochemicals targeting GFRs as therapeutic sites of cancerous cells: An *In -silico* study. 2nd Virtual annual International Conference on Naturopathy, nanotechnology, nutraceuticals, immunotherapy in Cancer research 2021 (ICN3IC-21), oorganized by Association of Cancer Education and Research (ACER), School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India, in association with Purdue University, USA and sponsored by Tamil Nadu State Council for Science & Technology (TNSCST) and Microbiologist Society, India (MSI) held during 11<sup>th</sup> & 12<sup>th</sup> June, 2021.
7. **Edet Love Mendie** and S. Hemalatha. Phytochemical Analysis and Anticancer Activities of *Nyctanthes arbor-tristis* L. International Conference on Basic and Translational Cancer

Research: Novel Ideas and Approaches (ICBTTCR-2020), organized by Association of Cancer Education and Research (ACER), School of Life Sciences, BSAR Crescent Institute of Science and Technology, Chennai, in association with W. M. Keck Centre for Cellular Imaging, University of Virginia, USA and Tamil Nadu State Council for Science and Technology (TNSCST) held on 25<sup>th</sup> – 7<sup>th</sup> June, 2020.

8. **Edet Love Mendie** and S. Hemalatha. Isolation and identification of endophytic bacteria and fungi from the parts of *Nyctanthe arbor tristis* linn Plant. International Conference on Recent Trends in Bionanotechnology, Energy and Environment (ICBEE 2020) organized by the School of Life Sciences, B. S. Abdul Rahman Crescent Institute of Science and Technology, Vandalur, Chennai, and Thassim Beevi Abdul Kader College for women, Kilkarai, Tamil Nadu, India in association with University of Missouri, USA on 18<sup>th</sup> and 19<sup>th</sup> February, 2020.
9. **Edet Love Mendie** and S. Hemalatha. Herbal nanomedicine; the way forward to healthier life. International conference on Applications of biotechnology and Nanotechnology organized by BSAR crescent Institute of Science and Technology, Chennai in association with University of Missouri, USA, 30, Sept and Oct, 1, 2019.
10. **Edet Love Mendie** and J. Deepalaksmi. Phytochemical and *In-vitro* anti-diabetic activity of *Nyctanthes arbor-tristis* Linn. International Conference on Nutraceuticals – Concepts and Applications in Diseases (ICNCAD – 2018), organized by Department of Medical Biochemistry, University of Madras, Guindy campus, Chennai on February 16<sup>th</sup> and 17<sup>th</sup>, 2018.

### 6.3.2 Papers abstract published in proceedings

1. Edet Love Mendie and S. Hemalatha (2021). Biosynthesis of Nanoparticles from Novel Endophytic Bacteria Isolated from *Nyctanthes arbor-tristis* and its Characterization. *Proceedings International*; 3 (1): 112.
2. Edet Love Mendie and S. Hemalatha. Molecular Docking of Phytochemicals targeting GFRs as therapeutic sites of cancerous cells: An *In-silico* study. Proceedings of ICN3IC-21, Virtual, 11 June – 12 June 2021; ISBN: 978-81-950236-5-3
3. Edet Love Mendie and S. Hemalatha. Phytochemical Analysis and Anticancer Activities of *Nyctanthes arbor-tristis* L. Proceedings of ICBTTCR-2020, 25<sup>th</sup> – 27<sup>th</sup> June 2020.

#### 6.4. International books or chapters in books

1. **Edet. Love Mendie**, S. Hemalatha. Synthesis, Types, and Characterization of Nanomaterials. Book: Green Nanotechnology: Synthesis and Applications Springer Nature. 2024, In process.

#### 6.5. Articles published in nationally refereed journals

1. Deepalakshmi, J. & **Edet Love Mendie** (2018). Phytochemicals analysis, GC – MS characterisation and *in-vitro* anti – arthritis activity of *Nyctanthe arbor tristis* Linn leaf. *International Journal of Research and Analytical Reviews*; 5(4): 1789 – 1797. <http://www.ijrar.org/papers/IJRAR1944217.pdf>
2. Edet Love Mendie, Etim Okon Effiom & Modo Emmanuel (2014). *In-vivo* Effect of *Citrullus Lanatus* seeds extract on liver function on acute butylated hydroxytoluence induced oxidative stress in Albino rats; *World Journal of Pharmaceutical Science*; 3(1): 133 – 139. <https://www.wjpsonline.com/index.php/wjps/article/view/847>

#### 6.6. Papers presented at national scientific meetings

1. **Edet Love Mendie**, S. Hemalatha. Bioactive Compounds Cum Comprehensive Biological Activities of Various Parts of *Nyctanthes Arbor-Tristis* Linn Extracts; National Symposium on Recent Headway in Biotechnology (RHBT 2020) Organized by Department of Biotechnology, DG Vaishnav College on 5<sup>th</sup> Feb, 2020.
2. **Edet Love Mendie** and S. Hemalatha. Phytochemicals and multi-functional biological activities of *Nyctanthes arbor-tristis* L leaves extracts. National conference on biotechnological advances in biomedical, environmental and agricultural technology, Hindustan College, Chennai, September, 13, 2019.

#### 6.7. Other publications (Sequences deposited in GENBANK, NIH USA)

1. MN814019.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, S. Nachimuthu. *Exserohilum rostratum*, Eukaryotic Nuclear rRNA/ITS / Isolation of endophytic fungi from Medicinal plant, 520 base pairs. <https://www.ncbi.nlm.nih.gov/nuccore/MN814019.1>
2. MN814021.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, Nachimuthu. *S. Colletotrichum truncatum*, Eukaryotic Nuclear rRNA/ITS / Isolation of endophytic

- fungi from Medicinal plant, 532 base pairs.  
<https://www.ncbi.nlm.nih.gov/nuccore/MN814021.1>
3. MN814022.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, Nachimuthu. *S. Colletotrichum asianum*, Eukaryotic Nuclear rRNA/ITS / Isolation of endophytic fungi from Medicinal plant, 523 base pairs.  
<https://www.ncbi.nlm.nih.gov/nuccore/MN814022.1>
4. MN814024.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, Nachimuthu. *Bacillus cereus*, cultured Prokaryotic 16S rRNA / Isolation of endophytic bacteria from Medicinal plant, 828 base pairs <https://www.ncbi.nlm.nih.gov/nuccore/MN814024.1>
5. MN814025.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, Nachimuthu. *Cronobacter sakazakii*, cultured Prokaryotic 16S rRNA / Isolation of endophytic bacteria from Medicinal plant, 751 base pairs.  
<https://www.ncbi.nlm.nih.gov/nuccore/MN814025.1>
6. MN814028.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, Senthil Kumar Nachimuthu. *Cronobacter sakazakii*, cultured Prokaryotic 16S rRNA / Isolation of endophytic bacteria from Medicinal plant, 750 base pairs.  
<https://www.ncbi.nlm.nih.gov/nuccore/MN814028.1>
7. MN814019.1: S. Hemalatha, **Love Edet Mendie**, Shariq Ahmed Mushtaq, S. Nachimuthu. *Exserohilum rostratum*, Eukaryotic Nuclear rRNA/ITS / Isolation of endophytic fungi from Medicinal plant, 520 base pairs.  
<https://www.ncbi.nlm.nih.gov/nuccore/MN814019.1>

## 6.8. International citations

- Total citations: 67
- h-index: 3
- i10-index: 1

## 7. Administrative Duties

- I. Mentored 30+ students from external institutes during specialized training programs organized in School of Life Sciences, B.S Abdur Rahman Crescent Institute of Science & Technology, Chennai, India, resulting in improved practical and research skills.

- II. Academic Advisor of Phase II (Year 2) at Faculty of Medicine, Girne America University, Kyrenia; 2023 – till date

## **8. Memberships in Scientific and Professional Organizations**

- Associate member at Institute of Strategic Management Nigeria (Joined 2014)

## **9. Awards**

- Award of Academic Excellence (2013). Department of Biochemistry, Madonna University, Elele Rivers State, Nigeria.
- Award of Proficiency for attaining first place in Major academic performance during the academic year 2017 – 2018.
- 3<sup>rd</sup> place award in International Conference on Nutraceuticals – Concepts and Applications in Diseases (ICNCAD – 2018), organized by Department of Medical Biochemistry, University of Madras, Guindy campus, Chennai on February 16<sup>th</sup> and 17<sup>th</sup>, 2018.
- Best oral presentation award in the Virtual International Conference on Novel and Alternative Therapeutics for Neurodegenerative Diseases Mediated Through Unfolded Protein Response (UPR) organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India, sponsored by International Brain Research Organization (IBRO) in association with Tamil Nadu State Council for Science & Technology (TNSCST) was held from 20<sup>th</sup>-23<sup>rd</sup> September, 2021.
- Best oral presentation award in the International conference on Current Trends in Biomedical Research “ICTBR 2K22” in association with Society for Medical, Biological & Pharmaceutical Sciences (SMBPS) held on 30<sup>th</sup> September 2022, at Centre for Transdisciplinary Research Department of Pharmacology, Saveetha Dental College & Hospitals, SIMATS, Chennai.
- Best oral presentation in 3<sup>rd</sup> International Conference on Application of Natural compounds, Nanomaterials, Oncolytics in cancer biology and biotechnology organized by School of Life Sciences and Association of Cancer Education and Research (ACER) B.S Abdur Rahman Crescent Institute of Science & Technology, Chennai, in association with Purdue University, USA on 27<sup>th</sup> and 28<sup>th</sup> October 2022.

- Young Scientist Award in the “4th Annual International Conference on Applications of Millets and Probiotics on Cancer Therapy and Management (ICAMP 2024)” organized by School of Life Sciences and Association of Cancer Education and Research (ACER), B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India In association with Purdue University, USA held on January 30 & 31, 2024.
- Young Scientist Award in the International Conference on Advances and Applications of Biotechnology (ICAAB 2024), organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai in association with University of East London, UK, Tamil Nadu State Council for Science and Technology, National Council for Science & Technology Communication, Department of Science and Technology, Govt. of India held on July 30 & 31, 2024

**10. Fill in the table below for the undergraduate and graduate level courses you have taught in the last two years.**

Academic Year	Period	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2023-2024	Fall	Medical Biochemistry (MED102)	4	4	59
		Clinical Biochemistry (PHARM 309)	1	4	38
		General Chemistry	Nil	8	60
	Spring	Medical Biochemistry (MED102)	4	4	59
		Herbal Products and Supplements (PHAR 416)	3	Nil	4
		Introduction to Biochemistry (NRS 105)	2	Nil	18

P.S: For Medical Biochemistry (MED 102), the number of hours given above is an average hour which varies for each committees session.



## 11. Technical Skills

- Ability to carry out *in-vivo* experiments involving mouse models.
- Managed cell lab, cryogenic storage, cell culture support, and training
- Performed cell culture utilizing sterile technique and managed laboratory safety/chemical inventory/equipment.
- Optimized and improved several biological assays, using a variety of molecular biology techniques.
- Effective handling of sophisticated laboratory equipment such as the multi-mode reader, UV-spectrometer, PCR-amplifier, fluorescent microscope, dry freezer and others.
- Performed DNA extraction of genes in pathogenic bacteria and novel endophytic bacteria as well as real-time RT-PCR amplification of genes
- Ability to manage and analysis scientific data with the use of statistical analysis packages such as OriginLab, Microsoft data toolkit and SPSS.
- Ability to develop teaching skills needed to pass knowledge to students/people of different cultural diversity and upbringing.
- Excellent written and verbal communication skills in English language.
- Highly developed interpersonal and organisational skills with the ability to work with staff and students from diverse background and ethnicity.
- Ability to work as a key player in a team, collaborate with other researchers and build good relationship.
- Ability to conduct academic research independently with limited supervision.
- Willingness to learn and improve on professional knowledge and skills.

## 12. Journal Editorial Service (Reviewer)

- Applied Biochemistry and Biotechnology (2023) – SCOPUS Indexed, WOS indexed
- Current Pharmacology Reports (2023) – WOS Indexed
- In-silico Pharmacology (2023-2024) - SCOPUS Indexed, WOS indexed

## 13. References

To be send on request.