

## CURRICULUM VITAE

**Dr. V.TAMIL ELAKKIYA**

**Assistant Professot**

**Department of Biotechnology**

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➤ **Research Area:**

- Bioprocess Technology
- Protein Engineering

➤ **Educational Qualifications:**

<b>Qualification</b>	<b>College/University</b>	<b>Year of completion</b>
Ph.D. (Biotechnology)	Anna University, Chennai	2022
PG (Biomedical Engineering)	College of Engineering - Anna University, Chennai.	2010
UG (Biotechnology)	St.Peters Engineering College, Chennai.	2008

**Experience:** (chronological order)

<b>Name of Company / Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Experience in Year</b>
Bharathidasan Institute of Technology - Anna University, Tiruchirappalli.	Assistant Professor	03.03.2011	Till date	12.5

➤ **Awards / Honours Received:**

1. Young Faculty Research Support Scheme by TEQIP II – 2015

➤ **Additional / Academic Responsibilities at University:**

1. Resource person in the TEQIP II Sponsored Hands on training program on “Molecular and analytical Techniques in Biotechnology - 2015 (MATB -2015)” held from 7th September to 11th September 2015 at Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli.
2. Resource person in the TEQIP II Sponsored International conference on “Modern Progress in Biotechnology held from 9th October to 10th October 2014 at Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli.
3. Acted as Presiding Officer in General Elections to Lok Sabha - 2014 for Manachanallur Assembly Constituency on 24th April 2014.
4. Acted as NSS Program Officer.
5. Department Exam Coordinator.
6. Department Sports Coordinator.
7. Department Coordinator for Quality Improvement Cell.
8. Department Coordinator for ANTI-Ragging Committee.
9. Department Quality Maintenance Coordinator.
10. Overall EDII - IVP Coordinator from August 2019 - till date.
11. FICCI-FLO Institute Coordinator.
12. Overall Health Centre Coordinator.

➤ **Membership of Scientific and Professional Societies:**

1. The Indian Society for Technical Education
2. Association of Pharmacy Professionals.

➤ **Fellowships and Grants received:**

- Reducing methane toxicity in manhole by incorporating microbial technology (2018) - student fund project from TNSCST (Tamilnadu State Council for Science and Technology )
- Development of prototype for the onsite detection of heavy metal(chromium) using the biosurfactant (2018) student fund project from TNSCST (Tamilnadu State Council for Science and Technology )

- Biodiesel production using Neem Oil with immobilized lipase *Pseudomonas aeruginosa* TEN01 (2015-2016)- Student funded projects from TEQIP II
- Synthesis of fluorescent carbon dots from the leaves of *Millettia pinnata* for detection of allura red in food samples (2015-2016)- Student funded projects from TEQIP II

➤ **Completed PG/UG Projects:**

- a. Number of PG Projects Completed: 12
- b. Number of UG Project Completed: 45

➤ **Publications:**

a. **Books / book chapters:**

S. No.	Authors	Title of the Book chapter	Publisher and ISBN No
1	<b>Tamil Elakkiya V</b> , Rajaram K, P Suresh Kumar	“Green synthesis of Nanoparticles” in Hand book on Molecular and analytical techniques in Biotechnology. <b>(2016)</b> , pp 44-53	SELP Publications, ISBN: 978-93-80509-82-2
2	<b>Tamil Elakkiya V</b> , Rajaram K, Meenakshi RV, Ravi Shankar, K, Suresh Kumar P	“Green Synthesis of MgO Nanoparticles Using <i>Sesbania bispinosa</i> and its In Vitro Effect on Chlorophyll Content in Long Bean Plant” in Hand book on Green Synthesis of Nanoparticles: Applications and Prospects. <b>(2021)</b> , pp 289-300	Springer Publications, Singapore, ISBN: 978-981-15-5179-6
3	<b>Tamil Elakkiya V</b> , Theresa V, Ravishankar K, Renganathan S, Gajendran T	“Biosurfactant: A Sustainable Replacement for Chemical Surfactants” in Hand book on Sustainable Bioprocessing for a Clean and Green Environment. <b>(2021)</b> , pp 217	CRC Press, ISBN: 9781003035398
4	Ravishankar K, Madhumathi Devi B, <b>Tamil Elakkiya V</b> , Ronaldo Anuf	“Genetic Engineering of Microorganisms: Advances and Challenges” in Hand book on Microbes for a Sustainable Environment and Human Welfare:	Nova Science Publishers, ISBN: 978-1-53619-0625

		Advancements and Opportunities. (2020), pp 1-30	
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**b. International Journals:**

1. Tamil Elakkiya V, Sureshkumar P, Yoha KS, Subhasri D (2021) “Studies on antibacterial and chemotaxis properties of Pseudomonas aeruginosa TEN01 biomass-derived sustainable biosurfactant” Chemosphere, volume 285, pp 131381, DOI: 10.1016/j.chemosphere.2021.131381. **(Impact Factor: 8.94)**
2. Meenakshi RV, Tamil Elakkiya V, Sasidharan J, Selvakumar M, Rajasekaran S, and Sureshkumar P (2021) “A review on network pharmacology based phytotherapy in treating diabetes-An environmental perspective.” Environmental Research, volume 202, pp 111656. DOI:10.1016/j.envres.2021.111656 . **(Impact Factor:8.431)**
3. Karthik V, Selvakumar P, Senthil Kumar P, Dai VNV, Gokulakrishnan M, Keerthana P, Tamil Elakkiya V and Rajeswari R (2021) “Graphene-based materials for environmental applications: a review” Environmental Chemistry Letters, volume 19, pp 3631–3644. DOI: [10.1007/s10311-021-01262-3](https://doi.org/10.1007/s10311-021-01262-3). **(Impact Factor:13.61)**
4. Tamil Elakkiya V, Meenakshi, RV, Karthik, V, Ravi Shankar, K, SureshKumar, P and Hanan A (2021) “Green synthesis of copper nanoparticles using Sesbania aculeata to enhance the plant growth and antimicrobial activities” International Journal of Environmental Science, pp 1-10. DOI: 10.1007/s13762-021-03182-9  
**(Impact Factor: 3.50)**
5. Tamil Elakkiya V, SureshKumar P, Alharbi NS, Shine K, Jamal MK and Marimuthu G (2020) “Swift production of rhamnolipid biosurfactant, biopolymer and synthesis of biosurfactant-wrapped silver nanoparticles and its enhanced oil recovery” Saudi journal of biological sciences, volume 27, issue 7, pp 1892–1899. DOI: 10.1016/j.sjbs.2020.04.001 **(Impact Factor: 4.21)**
6. Saravanan R, Tamil Elakkiya V, Sivakumar D.B (2019) “Biodiesel Production Using Neem Oil with Lipase from Pseudomonas aeruginosa TEN01” International Journal of Innovative science and Research Technology, Volume 4, Issue 7, pp 926-930.
7. Parveen M, Vijayalakshmi R, Divya P, Tamil Elakkiya V and Ravishankar K (2016) “Synthesis of fluorescent carbon dots from the leaves of Millettia pinnata for detection

of allura red in food samples” International Journal of Research in Pharmacology & Pharmacotherapeutics, Special Issue 1, pp 90-93.

**c. National Journals:**

1. Hanan A, Gowsalya G, Tamil Elakkiya V and Ravishankar K (2016) “Exploration of beneficial activities of marine algae for cosmeceuticals” Seaweed Research and Utilisation, Volume 38, issue 2, pp 132-136.

➤ **List of Seminar / Short Term Course /FDP/ Workshop organized:**

- Organized TEQIP II sponsored Hands on training programme “Molecular and analytical techniques in Biotechnology” at Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli from February 27 – March 3, 2017.
- Organized TEQIP II Sponsored Faculty Development Programme on “Implications of Chemical and Biological Sciences in Biotechnology (ICBSB -2016)” organized by Department of Biotechnology, Anna University, BIT Campus, Tiruchirappalli from 22nd June to 5th July 2016.
- Organized TEQIP II Sponsored two days seminar on “Network Pharmacology – A New Horizon in Drug Design” held in the Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli from August 30-31,2016.
- Organized TEQIP II Sponsored National Level Symposium on BIORITZ’14 at Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, BIT Campus, Tiruchirappalli from October 30-31,2014.
- Organized TEQIP II Sponsored national conference on “Plant Metabolomics” at Department of Biotechnology, , Anna University, BIT Campus, Tiruchirappalli from 15th to 16th October 2014.
- Organized TEQIP II Sponsored two days workshop on “Current Trends in Herbal Drug Discovery” held at Department of Biotechnology, Bharathidasan Institute of Technology, Anna University, BIT Campus, Tiruchirappalli during from 7th to 8th November 2013.

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended:**

➤ **National / International Conferences organized / Participated:**

- Divya P, Vijhayalakshmi R, Parveen M, Tamil Elakkiya V, Ravishankar K, “Biodiesel Production using neem oil with immobilized lipase from Pseudomonas aeruginosa TEN 01, TEQIP II Sponsored International Conference on Biological, Chemical and Physical Sciences (ABCPS), 13-15th March 2017.
- Tamil Elakkiya V, Suresh Kumar P, Ayyanar, S, Ravi Shankar K “Optimization of Biosurfactant production from Pseudomonas aeruginosa TEN01 and its enhanced biosorption of heavy metals” Department of Biotechnology, Anna University, BIT campus, Trichy TEQIP II Sponsored International Conference on Trends and Innovations in Chemical & Pharmaceutical Technologies, 2-4th February 2017.
- Hanan A, Gowsalya P, Tamil Elakkiya V and Ravishankar K “Exploration of beneficial activities of marine algae for cosmeceuticals” SERB-DST Sponsored International Conference on Advances in Algal Biotechnology from 10th -12th August 2016.
- Presented paper on Designing of bio photo voltaic cell for the production of electricity using consortium in 7th International Conference on Technology Development on Agriculture, Energy and Environmental Engineering for Green World’18 organised by the Department of Biotechnology, Vivekanandha College of Arts & Science for Women, Tiruchengode from February 20-21, 2018.
- Tamil Elakkiya V, P Suresh Kumar, and Yoha Presented paper and won best paper award for “Studies on Antibacterial and chemotaxis properties of Pseudomonas aeruginosa TEN01 biomass-derived sustainable biosurfactant”, Second virtual conference on recent trends in clean technologies for sustainable environment at the Department of chemical engineering, Sri sivasubramaniya nadar college of engineering, Chennai, 6th-7th May 2021.

- V. Tamil Elakkiya V, Susma M, Gajendran T and Srehari M “Biodegradation of Polyesters and Polycarbonate in surgical gowns and goggles using Pseudomonas aeruginosa TEN01”, Second virtual conference on recent trends in clean technologies for sustainable environment at the Department of chemical engineering, Sri sivasubramaniya nadar college of engineering, Chennai, 6th-7th May 2021.

➤ **Professional recognitions:** (details like chairperson/member of a committee, reviewer, editor ...etc)

**(A) Chairperson for conferences / Seminar / Technical symposia:**

- **V. Tamil Elakkiya** served as resource person in TEQIP-II sponsored two days national conference on Modern Progress in Biotechnology (2014) , UCE, BIT-Campus, Trihy-24

**(B) Guest lectures delivered:**

- Delivered a lecture through online mode at the state level webinar on “current scenario in Biotechnology” at V.V. Vanniaperumal College for Women, Virudhunagar on 20th February 2021.
- Delivered guest lecture through online mode at National symposium SYMBIOCHEMMED 2K21, Muthayammal Engineering College, Rasipuram on 19th March 2021.

**DECLARATION:**

I certify that the information furnished above is correct and true to the best of my knowledge and belief.

**Signature of the staff member**

**Head of the Department**

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