Resume

Dr. M. Neelakandan, MSc., Ph.D.,
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PROFESSIONAL SUMMARY

Highly motivated Biochemist with a Ph.D. specializing in cancer biology, nanotechnology-based therapeutics, and experimental carcinogenesis. **Possesses strong academic, research, and industrial experience in** biochemistry, molecular biology, and diagnostic laboratory operations. **Demonstrates expertise in** teaching, research publication, and laboratory management.

EDUCATIONS

Degree and Year:	**Ph.D., Awarded [2025]**
Institution:	Annamalai University, Annamalainagar, Tamil Nadu, India.
Major:	Biochemistry
Thesis Title:	"Evaluation of tumor preventive potential of chlorogenic acid loaded chitosan nanoparticles in 7,12-dimethylbenz(a)anthracene induced skin carcinogenesis in Swiss albino mice"
Grade :	**Highly Recommended**
Degree and Year:	M.Sc., 2014
Institution:	Government Arts College (Autonomous) Kumbakonam Bharathidasan University, Trichy, India.
Major:	**Biochemistry (Percentage: 73.1%)**
Degree and Year:	BSc., 2012
Institution:	Meenaakshi Ramasamy Arts & Science College, Thathanur. Bharathidasan University, Trichy, India.
Major:	**Biochemistry (Percentage: 80.4%)**

Working Experience

Senior Executive – Operations
Thyrocare Technologies Pvt. Ltd., Chennai. *Aug 2024 – May 2025*

- Managed clinical diagnostic operations and workflow
- Handled quality control (QC) and laboratory procedures
- Worked with automated analyzers and immunoassays

Assistant Professor – Biochemistry
Muthayammal College of Arts and Science (Autonomous), Namakkal. *June 2023 – May 2024*

- Delivered lectures in Biochemistry and allied subjects

- Guided student academic and research activities
- Participated in academic and institutional development

Research experience

Research Scholar (Ph.D.)

Department of Biochemistry & Biotechnology, Annamalai University. *Dec 2015 – Dec 2022*

- Specialized in **cancer biology and chemoprevention**
- Conducted **in vivo and in vitro experiments**
- Published multiple peer-reviewed articles

Awards and Fellowships

Senior Research Fellow (SRF), ICMR, New Delhi (2019–2021)
University Research Fellowship (URF), Annamalai University (2018–2019)

Technical Skills

Molecular & Biochemical Techniques

- PCR, Gel Electrophoresis (DNA/RNA)
- Western Blotting, ELISA, Immunoprecipitation
- Protein purification (Bradford, Lowry, BCA assays)
- Enzyme kinetics and activity assays

Cell & Animal Studies

- Basic cell culture techniques
- Animal handling and experimental models
- Histopathology & Immunohistochemistry

Nanotechnology & Analytical

- Nanoparticle synthesis and characterization
- IR Spectroscopy
- Chromatography techniques

Clinical & Industrial Skills

- Clinical biochemistry & immunoassays
- Automated analyzers & photometry systems
- Laboratory quality control (QC/QA)
- Workflow and inventory management

Data & Software

- SPSS data analysis
- Microsoft Office (Word, Excel, PowerPoint)

Publications

Metrics Section:

- Total Publications : 13
- Scopus Indexed : 7
- Impact Factor Journals : 4
- Web of Science : 5
- h-index : 4

Publications (SELECTED)

1. **Neelakandan M**, Manoharan S, Murali Naidu R, Thara JM (2022).
   Tumor preventive and antioxidant efficacy of chlorogenic acid-loaded chitosan nanoparticles in experimental skin carcinogenesis.
   Naunyn-Schmiedeberg's Archives of Pharmacology.
   DOI: 10.1007/s00210-022-02330-3 | PMID: 36418466 | **Impact Factor: 3.6**

2. **Neelakandan M**, Manoharan S, Senthamaraikannan K, Vasudevan K (2017).
   Pharmacological effects of chlorogenic acid: An overview.
   International Journal of Research in Pharmaceutical Sciences, 8(1), 1–5.
   (Scopus Indexed)

3. **Neelakandan M**, Manoharan S, Murali Naidu R, Sivasankaran SM, Paari E, Harish K (2023).
   Chlorogenic acid-loaded chitosan nanoparticles downregulate multiple molecular markers in DMBA-induced skin carcinogenesis in Swiss albino mice.
   Indian Journal of Natural Sciences, 14(80).

4. Selvasundaram R, Manoharan S, Buddhan R, **Neelakandan M**, Murali Naidu R (2018).
   Chemopreventive potential of esculetin in DMBA-induced hamster buccal pouch carcinogenesis.
   Molecular and Cellular Biochemistry.
   DOI: 10.1007/s11010-018-3321-0 | **Impact Factor: 3.86**

5. Rajasekaran D, Sathishkumar P, **Neelakandan M**, et al. (2024).
   Fluorescent microscopy investigation of cytotoxic impact on MCF-7 cell line treated with zinc nanoparticles synthesized from *Jania rubens*.
   Luminescence, 39(11): e70007. DOI: 10.1002/bio.70007 **Impact Factor:1.2**

DETAILS OF CONFERENCE PRESENTATIONS

- Presented at National Conference on Intellectual Property Rights (2023)
- Participated in International Conference on Non-Communicable Diseases (2017)
- Total Conferences Attended: 18

Personal Details

- Date of Birth : 10 June 1992
- Gender : Male
- Nationality : Indian
- Marital Status : Married

DECLARATION

I hereby declare that the information furnished above is true, complete, and correct to the best of my knowledge and belief. I understand that any misrepresentation may lead to disqualification of my candidature.

Place: (Signature)
Date: Dr. M. Neelakandan