

# Curriculum Vitae

## N. Aathimoolam

Tamil Nadu, India - 626 121

Date of Birth: 19/04/2000

Mobile: +916369385857

Email: [npaathi03@gmail.com](mailto:npaathi03@gmail.com)

Website: <https://npaathi.blogspot.com/>



### OBJECTIVES

Highly motivated and dedicated candidate with a strong background in Molecular Biology and Zoology seeking a challenging research position to contribute to cutting-edge advancements in the field of Cell biology.

### EDUCATION

<b>Master of Science in Zoology</b> Alagappa University – 630 003	2020 - 2022 <b>CGPA: 8.37</b>
<b>Bachelor of Science in Zoology</b> Ayya Nadar Janaki Ammal College, Sivakasi - 626 124	2017 - 2020 <b>CGPA: 7.22</b>
<b>Higher Secondary School (Biology &amp; Mathematics)</b> Sevugapandia Gov Her Sec School, Seithur - 626 121	2016 - 2017 <b>Percentage – 80.33%</b>

### OTHER COURSES

<b>Introduction to Professional Scientific Communication</b> NPTEL Online Certification	2020 - 2021 <b>Percentage: 63.0%</b>
<b>Medical Laboratory Technology (CMLT)</b> Ayya Nadar Janaki Ammal College, Sivakasi – 626 124	2018 - 2019 <b>CGPA: 8.0</b>
<b>Biotechnology</b> Ayya Nadar Janaki Ammal College, Sivakasi – 626 124	2017 - 2018 <b>CGPA: 8.55</b>

### RESEARCH EXPERIENCE: PROJECTS WORKED & GRADUATE

<b>Research assistant,</b> Alagappa University, Assistant Professor: Dr. P. Kumar	06/2022-06/2023 Tamil Nadu, India
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#### Project List:

1. Anticancer activity of phloroglucinol derived carbon quantum dots.
2. Cinnamic acid carbon quantum dots: an excellent biosensor for detection of epicatechin.
3. Impact of penicillin on *hydra vulgaris*: a toxicological approach.
4. Chloramphenicol induces apoptosis in *hydra vulgaris*.
5. Research on the influence of rifampicin on *hydra vulgaris*.
6. Kanamycin impacts the growth of *hydra vulgaris*.

<b>Master of Science in Zoology,</b> Alagappa University, Professor: Dr. P. Srinivasan, <b>Thesis:</b> Studies on Antibacterial, Antioxidant, Anticancer, and Toxicity assay of green synthesized silver nanoparticle from <i>sepioteuthis lessoniana</i> ink. <a href="#">[Dissertation Link]</a>	12/2021-05/2022 Tamil Nadu, India
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<b>Internship,</b> Par Life Sciences and Research Pvt ltd, Advanced Molecular techniques	18/10/2021-21/10/2021 Tamil Nadu, India
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**Bachelor of Science in Zoology,**  
Ayya Nadar Janaki Ammal college,  
Assistant Professor: Dr. T. Veni

12/2019-06/2020  
Tamil Nadu, India

**Thesis: A Survey of Medicinal plants in Sastha Kovil, Virudhunagar District, Tamil Nadu.**  
[\[Dissertation Link\]](#)

### CONFERENCE PRESENTATION

- **Narayanan Aathimoolam**, Sabapathi Durgadevi, Selvaraj Anitha, Alagarsamy Arun, Ponnuchamy Kumar\*, (2023) “*Eco-toxicological assessment of paracetamol utilizing Hydra as a model organism*”, Oral Presentation at the “4<sup>th</sup> International Conference on Recent Trends in Microbiology (RTM-2023).

### CONFERENCES & SEMINRS

- Participated the National Conference on “**Recent Advanced in Structural Biology**” held on 4<sup>th</sup> & 5<sup>th</sup> November National College (Autonomous), Tiruchirappalli.
- Participated the National Seminar on “**Next Generation Technology for Sustainable Fisheries**” held on 29<sup>th</sup> & 30<sup>th</sup> March 2022 at Alagappa university, Karaikudi.
- Participate the RUSA 2.0 – BCTRC on “**Brainstorming Lecture Series on Cancer Theragnostic (Online Mode)**” held from 12<sup>th</sup> to 23<sup>rd</sup> September 2022, organized by Bharathiar Cancer Theranostic Research Centre, Bharathiar University, Coimbatore.
- Participated the Southern India Regional Young Peace Makers Programme on “**National Integration & Peace, Leadership, Active Listening, Identifying Problems in the Community & Project Development**” held on 26<sup>th</sup> to 28<sup>th</sup> November 2021, National Council of YMCAs of India, Karaikudi.
- Participated the International Webinar on “**Aqua Probiotics Conference (FEEDBACK)**” held on 25 September 2023, Envozyme Technologies Private Limited.
- Participated the National Webinar on “**Biomedical Waste Impact during Pandemic Times**” held on 12<sup>th</sup> June, 2021, Centre for Environmental Education and Ecological Development (CEED), Acharya Nagarjuna University, Andhra Pradesh.
- Participated the Online Programme on “**Three Days Online Course on Apiculture**” held on 13<sup>th</sup> to 15<sup>th</sup> May 2020, Ayya Nadar Janaki Ammal college, Sivakasi.
- Participated the Awareness Programmed on “**Academic Writing and Research Ethics**” held on 28<sup>th</sup> February 2020, Ayya Nadar Janaki Ammal college, Sivakasi.
- Participated the Awareness Programmed on “**Trending research avenues in biological sciences**” held on 31<sup>th</sup> January 2020, Sri S. Ramasamy Naidu Memorial college, Sattur.

## WORKSHOPS

- Participated the National level workshop on “**One-Day National Level Workshop Patenting and Collaboration with Industries**” held on January 30<sup>th</sup>, 2023, Organized by Industry and Consultancy wing & University Business Collaboration Centre, Alagappa University, Karaikudi.
- Participated the awareness programmed on “**Microbial Fertilizers and Uses**” held on 03<sup>rd</sup> to 4<sup>th</sup> October 2019, Ayya Nadar Janaki Ammal College and National Bank for Agriculture and Rural Development, Sivakasi.
- Participated the workshop programmed on “**Molecular Techniques**” held on 09<sup>th</sup> February 2018, Ayya Nadar Janaki Ammal college, Sivakasi.

## RESEARCH AND LABORATORY SKILLS

- **Cancer:** Cancer Cell culture Techniques, MTT, Fluorescence Techniques (AO/EtBr, DAPI, Hoechst, PI, DCFDA- H<sub>2</sub>, ROS).
- **Molecular Techniques:** Primer design for Gene Expression Study, DNA & RNA Isolation, Electrophoresis.
- **Ecological Model Organism (*Hydra vulgaris*):** Culture of *Hydra vulgaris*, *Hydra* Maintain.
- **Model Organism (*Hydra vulgaris*) analytical techniques:** Acute Toxicity Test, Biological Staining (AO, DAPI, DCFDA-H<sub>2</sub>), Battery Cell Complex, Regeneration Study, Population Study.
- **Microbes:** Isolation of Bacteria, Anti-bacteria, Bacterial staining.
- **Instruments Handling:** UV-Vis Spectroscopy, FTIR, Inverted Phase Contrast Fluorescence Microscope, ELISA Plate Reader, etc.,
- **Computer Skills:** Proficient with Microsoft Office (Word, Excel and PowerPoint), and Statistical analysis (SPSS, Originlab, Graph pad) etc.,

## ACADAMIC REFERENCES

1. **Dr. SP. Sevarkodiyone,**  
Head & Associate Professor,  
P.G and Research Department of Zoology,  
Ayya Nadar Janaki Amma College (Autonomous),  
Sivakasi, Tamil Nadu, India - 626124  
Email ID: [sevarkodiyone@gmail.com](mailto:sevarkodiyone@gmail.com)  
Contact no: +919865132654
2. **Dr. R. Ramakrishnan,**  
Associate Professor,  
P.G and Research Department of Zoology,  
Ayya Nadar Janaki Ammal College (Autonomous),  
Sivakasi, Tamil Nadu, India – 626 124  
Email ID: [jairams.zoo@gmail.com](mailto:jairams.zoo@gmail.com)  
Contact no: +9163826337525