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**Qualification** : M.Sc.,  
**Experience** : Teaching – 1 Year 4 Months  
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#### Academic Qualifications

| Degree | Branch       | Institution / University Name                     | Year |
|--------|--------------|---|------|
| M.Sc   | Biochemistry | Dr N.G.P Arts and Science College, Coimbatore     | 2024 |
| B.Sc   | Biochemistry | V.V.Vanniaperumal College for Women, Virudhunagar | 2022 |

#### Research Publications

Rasika K<sup>1\*</sup>, A.Pavinanadhanadevi<sup>1</sup>, S.Shahla Farveen<sup>2</sup>, J Soundaryalakshimi<sup>3</sup>, M.Varshini<sup>4</sup>, E Nisi Oshean<sup>5</sup>, Development of Polyherbal Mouthulcer from *Psidium gujava* and *Musa paradiaca*, Journal of Emerging Technologies and Innovative Research, Vol 12., Issue 5, May 2025, ISSN No 2349-5162., DOI (An International Scholarly indexed Journal )

K.B. Leneeygreen<sup>1\*</sup>, K. Rasika<sup>1</sup> K. Rajathi<sup>2</sup>, Analysis of Calciferol and Elements In Aqueous Extract Of Muntigia Calabura Fruit Using LC-MS/ And ICPMS Techniques, Vol. 10 No 03, pp.284-289, 2023, ISSN 2349-7750., (Indexed in Google Scholar)

#### Presentations in Conference/ Seminar

**Chitosan Fucoidan Complex Coated Silver Nanoparticles in Cancer Cell**, International Conference on Confluence of Science and Technology (ICCST), Bharathidasan College of Arts and Science, 10-Oct-2022

#### Participation in Conference/Seminar

National Conference on Interdisciplinary Approaches on Dynamics of Biosciences Research (IADBR-23), Dr N. P. G Arts and Science College, 28-Mar-2023

International Conference on Confluence of Science and Technology (ICCST), Bharathidasan College of Arts and Science, 10-Oct-2022

National Conference on AI and IoT for Agriculture Innovation and Environment Sustainability (NCAIAIES-22)

### **Participation in Faculty Development Programme**

A Step-to-Step Guide to Write Good Research Papers & Research Proposal, Digi Skill Development Center & Training Institute, 26-Sep-2025 to 30-Sep-2025

Molecular Docking Green Toxicology, Dr. N.G.P. Arts and Science College, Coimbatore, 05-Jun-2025 to 09-Jun-2025.

### **Participation in Workshop**

Navigating the PhD Research Journey: Strategies for Success, Institute of Scholarly Research and Training, 02-Aug-2025

### **Membership in Professional Bodies**

| <b>Name of the Professional Body</b> | <b>Nature of membership</b> | <b>Duration</b> |
|--------------------------------------|-----------------------------|-----------------|
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Article

Research

## ANALYSIS OF CALCIFEROL AND ELEMENTS IN AQUEOUS EXTRACT OF *MUNTIGIA CALABURA* FRUIT USING LC-MS/MS AND ICPMS TECHNIQUES

K.B. Leneeygreen<sup>1\*</sup>, K. Rasika<sup>1</sup>, K. Rajathi<sup>2</sup>

<sup>1</sup> Department of Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore-641 048,  
Tamil Nadu, India.

<sup>2</sup> Professor, Department of Biochemistry, Dr. N.G.P. Arts and Science College,  
Coimbatore-641 048, Tamil Nadu, India.

### Abstract:

*Muntigia calabura* fruit have a lot of medicinal properties like antimicrobial, antioxidant, anti-inflammatory, and anticarcinogenic activities. It is used to reduce headaches, chronic pain, arthritis, blood pressure, prevent infection and boost immunity. This study planned to find out the amount of Calciferol, Cu, Zn and Selenium present in *Muntigia calabura* fruit. Aqueous fruit extract were prepared and analyzed by above mention tests using LCMS/MS and ICPMS analytical chemistry techniques. These both techniques are very advanced and assist to find out the accurate quantitative results. The sample preparation, analyzer method and calculations are carried out with reference to AOAC protocol. In this fruit extract contains 0.91µg/100g of Calciferol, 2.22mg/kg of Copper, 0.1mg/kg quantity of Selenium and Zinc metals were observed.

**Key words:** Copper, Zinc, Selenium, LCMS/MS, ICPMS, Calciferol, *Muntigia calabura*

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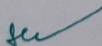
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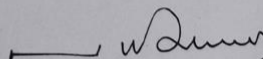
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#### CERTIFICATE

This is to certify that Mr / Ms / Dr. K. Rasika I. M.Sc. Biochemistry  
Dr. N.G.P. Arts and Science College has participated /  
presented a paper (Oral / Poster) entitled chitosan Fucoidan complex Coated  
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for participating in the National-Level Online Workshop on **"Navigating the PhD Research Journey: Strategies for Success"** organised by the Institute for Scholarly Research and Training, Chennai on 02<sup>nd</sup> August 2025.

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FDP titled as "A Step-by-Step Guide to write a  
Good Research Paper & Research Proposals" held  
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**2025FDP10RP046**

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