



Dr. RIJIA. A

Bangalore, India.

Ph: 7907674834

email: rijiazareen@gmail.com

Orcid profile: <https://orcid.org/0000-0002-2037-0741>

Profile:

Highly motivated PhD graduate in Microbiology with expertise in bioactive compounds and medicinal mycology. Submitted the thesis on “COMPREHENSIVE ANALYSIS OF BIOACTIVE COMPOUNDS IN WILD MUSHROOMS AND EVALUATION OF MEDICINAL PROPERTIES IN *GANODERMA APPLANATUM* THROUGH IN VITRO, IN VIVO AND IN SILICO APPROACHES”. Studied antioxidant, anticancer, and antimicrobial activities of mushroom (*In vitro*, *In vivo* and *In silico* studies). Proficient in molecular docking, Characterizations, and bioinformatics tools for structural analysis. Passionate about research in medicinal natural products and therapeutic applications.

Employment History:

- **QA Executive experience of 1 Year at Subramania aqua mills, kavassery, palakkad (13.08.2018 to 25.09.2019)**
Monitoring and ensuring the quality of water at every stage of the treatment process through regular physical, chemical, and microbiological testing. They verify compliance with BIS, ISO, and WHO standards and maintain accurate documentation and reports of all analyses.
- **Research scholar experience of 4 years at The Gandhigram Rural Institute - Deemed to be University, Dindigul. (February 2021- April 2025)**

Conducted research on bioactive compounds from wild mushrooms, focusing on antioxidant, anticancer, anti-viral and antimicrobial activities. Proficient in techniques including molecular docking, Characterization techniques, and chromatographic analysis. Published research papers in high-impact journals.

- **Assistant Professor**

Emversity, Bangalore

(May 23, 2025 – August 4, 2025) Engaged in teaching and curriculum development for undergraduate health sciences programs. Assisted in academic coordination and student mentoring.

- **Assistant Professor**

Presidency University, Yelahanka, Bangalore

(August 5, 2025 – Present) Teaching undergraduate courses in allied health sciences. Involved in academic administration, Research guidance, and departmental activities. Serving as Class coordinator and Exam coordinator.

ACADEMIC QUALIFICATIONS:

ACADEMIC QUALIFICATION	SPECIALIZATION	SCHOOL/UNIVERSITY/ COLLEGE	%	YEAR OF PASSING OUT
10	SSLC	GHSS KODUVAYUR	83%	2011
12	HSS	GHSS KODUVAYUR	70%	2013
UG	BSc. MICROBIOLOGY	SREE NARAYANA COLLEGE	81%	2016
PG	MSc. MICROBIOLOGY	THE GANDHIGRAM RURAL INSTITUTE-DEEMED TO BE UNIVERSITY	86.26%	2018
PhD	MEDICAL MICROBIOLOGY	THE GANDHIGRAM RURAL INSTITUTE-DEEMED TO BE UNIVERSITY	85.25%	2025

Internship:

- One month Internship at **CTBI** (Centre for Tropical Biodiversity Conservation), Malappuram Industrial study on child nutrition and quality control standards, tests for quality analysis, observatory recording of industrial process.

Training programmes:

- **CBNR (Centre for Bioscience and Nanoscience Research)**, Coimbatore. Hands-on training programs on advanced techniques in molecular biology, PCR, and advanced laboratory spectroscopic analysis.
- Participated in One week Training Programme by **STUTI** funded by **DST**, India on R&D Equipments on the theme of “**ANALYTICAL TECHNIQUES USING ADVANCED RESEARCH INSTRUMENTS AND ITS APPLICATIONS IN ENVIRONMENTAL SCIENCES**” Organized by NIT, Warangal & OSMANIA university.
- Participated in the seven day special camping programme on the theme **ROLE OF YOUTH IN SWATCHH BHARATH ABHIYAN** organized at Erangampatti as a part of National service scheme.

Research papers published:

1. **Rijia A.**, Krishnamoorthi, R., Rasmi, M., Mahalingam, P. U., & Kim, K. S. (2024). Comprehensive Analysis of Bioactive Compounds in Wild *Ganoderma applanatum* Mushroom from Kerala, South India: Insights into Dietary Nutritional, Mineral, Antimicrobial, and Antioxidant Activities. *Pharmaceuticals*, 17(4), 509. PubMed (**I.F= 4.9**).
2. **Rijia A.**, Krishnamoorthi, R., Kaviyadharshini, M., & Mahalingam, P. U. (2025). Unlocking fungal fortunes: Cutting-edge extraction techniques and therapeutic possibilities of mushroom bioactive compounds. *Food Chemistry Advances*, 100895. Elsevier (**CiteScore 10.7**).
3. **Rijia, A.**, Krishnamoorthi, R., Mahalingam, P. U., Kaviyadharshini, M., Rajeswari, M., Kumar, K. K. S., & Fang, J. Y. (2025). Unveiling the anticancer potential and toxicity of *Ganoderma applanatum* wild mushroom derived bioactive compounds: An in vitro, in vivo and in silico evaluation. *Bioorganic Chemistry*, 108233. Elsevier (**I.F 4.7**).
4. **Rijia, A.**, Krishnamoorthi, R., Mahalingam, P. U., Rajeswari, M., Kumar, K. K. S., Shalini, T. S., ... & Kannan, K. (2025). In silico pharmacokinetic and molecular docking of *Ganoderma applanatum* wild mushroom derived 6LU7 inhibitor compounds as an effective agent against SARS-CoV-2. *The Microbe*, 100589 (1.083).

Research articles accepted for publication:

5. Isolation and Characterization of *Weissella confusa* ZJUIDS-D034 from Averrhoa bilimbi Juice: A Novel Probiotic Producing Luteolin-7-O-Glucuronide with Antidiabetic Potential is under communication in the journal Bacteria.

Abstract published:

- Abstract published on **“In vitro investigation on the apoptotic and cytotoxic effects of Ganoderma applanatum extract on various human carcinoma cell lines”** with ISBN:978-81-964630-9-4 on International conference on Transdisciplinary Research in Life Sciences, Kristu Jayanti College, Autonomous & The University of Trans- Disciplinary Health Science and Technology (TDU).

Paper Presented:

- Paper titled **“In vitro investigation on the apoptotic and cytotoxic effects of Ganoderma applanatum extract on various human carcinoma cell lines”** were presented and on International conference on Transdisciplinary Research in Life Sciences, Kristu Jayanti College, Autonomous & The University of Trans- Disciplinary Health Science and Technology (TDU).
- Paper presented in a National Conference on **“Marine Conservation and Commercialization of Marine based products for Bio-sustainability”** organized by Department of Microbiology, Vivekananda college of Arts and Science for Women, Sivasankari.
- Paper presented in a National Conference on **“Bioresources: Conservation, utilization and future prospects”** organized by Department of Biology , GRI-DTBU, Dindigul.

Workshops, seminars and conference attended:

- Participated in the Science Academies Lecture workshop on Recent trends in biological sciences” held on 23 & 24 october, 2017 at Department of Biology, School of sciences, The Gandhigram rural Institute- Deemed to be university, Gandhigram -624302.
- Participated in a Webinar series on COVID-19 PANDEMIC ROLE OF MICROBIOLOGIST, Organised by American Society for Microbiology.
- Participated in the National Webinar on INDUSTRIAL SPIRULLINA PRODUCTION TECHNOLOGY, organised by Department of Microbiology, Ayya Nadar Janaki Ammal college, Sivakasi (2022).
- Participated in the international webinar on STEMCELLS AND ITS THERAPEUTIC APPLICATION, Organised by Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi. (2022)
- Participated in one day virtual conference on SUSTAINABLE ENVIRONMENT Organised by Department of Biotechnology, Faculty of Applied Science, AIMST University, Malaysia (2022).
- Attended a webinar on CHROMATOGRAPHIC TECHNIQUES, Jointly organised by Indrashil University, Rajpur, Kadi, Gujarat and Matushri shantaben Vidya Science college, Bhavnagar (2022).
- Participated in the National webinar on MICROBIAL TECHNOLOGIES FOR SUSTAINABLE AGRICULTURE AND CLIMATE CHANGE MITIGATION , Organised by All India Network Project on Soil Biodiversity & Biofertilizers, Department of molecular Biology and Biotechnology, Directorate of Research, Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) (2022).

Achievements:

- Completed the Doctoral degree in **Medical Microbiology** with CGPA of 85.25% (2025, OCTOBER).
- MSc in Microbiology with **First Rank and Gold medal** (2018, April). The Gandhigram Rural Institute - Deemed to be University, Dindigul.
- Recognized and mentioned as **Best Researcher** in indian scientist programme , may 2025

Contact Information of references:

1. Dr. P.U. Mahalingam
Professor and head
Department of biology
The Gandhigram Rural Institute-Deemed to be university Ph: +919445818371
Mail: pumahalingam@yahoo.co.in
2. Dr. R krishnamoorthi
Post Doctoral fellow in Pharmaceutics Laboratory, Graduate Institute of Natural Products, Chang Gung University, Kweishan, Taoyuan, Taiwan.
Ph: +91 98433 25140
Mail: krishnamicro3@gmail.com
3. Dr. C. Sudhersan Research
Scientist Food Security
Program
Environment and Life Sciences Research Center, Kuwait Institute for Scientific Research
Kuwait.
mail: schellan@kISR.edu.kw
Mob. +965 96615040.

Declaration:

I hereby declare that the information provided in this resume is accurate and complete to the best of my knowledge and integrity.

Faithfully,
Dr. RIJA A