

CURRICULAM VITAE



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EDUCATIONAL BACKGROUND

Course	Name of the Institution	Subject	Year of Completion	Percentage / Class
Ph.D	Bharathidasan University, Tiruchirappalli	Microbiology	August, 2015	Highly Commended
M.Phil.,	Bharathidasan University, Tiruchirappalli	Microbiology	August, 2011	86.6 %, CGPA:8.83 1 st class, D++
M.Sc.,	Jamal Mohamed College (Autonomous), Tiruchirappalli	Microbiology	April, 2010	85.35% (CGPA:8.7) 1 st class, D++
B.Sc.,	A.V.C College (Autonomous), Mayiladuthurai	Microbiology	April, 2007	86 % 1 st class, Distinction
H.Sc	Raj Matriculation Higher Secondary School, Mayiladuthurai	Maths and Biology	April, 2004	73% 1 st class

Ph.D. Research Title: Purification, Characterization and Applications of Cyanobacterial Phycocyanin Pigment

PROFESSIONAL EXPERIENCE (7 Years)

UG	7 years
PG	7 years
M.Phil	4 years

PROFESSIONAL DEVELOPMENT

- Completed online course by **SWAYAM** portal by Govt. of India on '**Food Microbiology and Food Safety**' during September 2020.

RESEARCH EXPERIENCE

- Worked as **Senior Research Fellow (SRF)** [2012-2015], **UGC-MANF** under **Dr. N. Thajuddin**, Professor and Head, Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
- Worked as **Junior Research Fellow (JRF)** [2010-2012], **UGC - MANF** under **Dr. N. Thajuddin**, Professor and Head, Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.

AREA OF INTEREST

- Microbial Taxonomy (Conventional and Molecular methods)
- Computational Biology

SUBJECTS OF INTEREST

- Microbial taxonomy and Phycology
- Food Microbiology
- Immunology
- Molecular Biology
- Environmental and Agricultural Microbiology

CITATION PROFILE

Details	Scopus	Google Scholar
Number of Citations	56	82
h-Index	02	04
i-10 index	-	02

PUBLICATIONS

International: 5; National: 4

- M. Mohamed Mahroop Raja and **N. Reehana**. 2020. Analysis of Multiple antibiotics resistant and Molecular epidemiology of *Escherichia coli* and *Pseudomonas aeruginosa*. International Journal of Pharmaceutical Sciences and Research. 11(8): 3763-3771.
- M. Mohamed Mahroop Raja, A. Raja and **N. Reehana**. 2019. Biochemical screening of marine *Micromonospora marina* KPMSI (MH036351) and its antibacterial activity against multidrug resistant bacteria. Asian journal of Pharmaceutical and clinical research. 12(2): 405-410.
- A. Parveez Ahamed, M.U. Rasheed, K. Peer Muhamed Noorani, **N. Reehana**, S. Santhoshkumar, M. Mohamed Imran, Naiyf S.Alharbi, C. Arunachalam, Sulaiman Ali Alharbi, M. A. Akbarsha and N. Thajuddin. 2017. *In vitro* antibacterial activity of

MGDG-Palmitoyl from *Oscillatoria acuminata* NTAPC05 against extended spectrum beta lactamase-producers. *The Journal of Antibiotics*. 00, 1–9. doi:10.1038/ja.2017.40. (IF:2.446)

- M. Mohamed Imran, **N. Reehana**, K. A. Jayaraj, A. Parveez Ahamed, D. Dhanasekaran, N. Thajuddin, Naiyf S. Alharbi and G. Muralitharan. 2016. Statistical optimization of exopolysaccharide production by *Lactobacillus plantarum* NTMI05 and NTMI20, *International Journal of Biological Macromolecules*, 93:731- 745. (IF:6.93)
- M. Mohamed Imran, **N. Reehana**, G. Muralitharan and N. Thajuddin. 2014. Molecular phylogeny and *in silico* analysis of 18S rRNA genes from selected microalgal cultures. *Seaweed Research Utilization Journal.*, 36(1&2):126-135.
- **N. Reehana**, A. Parveez Ahamed, D. Mubarak Ali, A. Suresh. R. Arvind Kumar and N. Thajuddin. 2013. Structure based computational analysis and molecular phylogeny of C- phycocyanin gene from the Selected Cyanobacteria. *International Journal of Biological, Life Science and Engineering.*, 7 (1): 1170-1174.
- **N. Reehana**, A. Parveez Ahamed and N. Thajuddin. 2013. Phylogenetic characterization and homology modeling of C-Phycocyanin gene from *Oscillatoria nigroviridis* NTRI01. *Phykos.*, 43 (1): 39-45.
- **N. Reehana**, A. Parveez Ahamed and N. Thajuddin. 2012. In vitro studies on bactericidal effect of selected cyanobacteria against bacterial pathogens. *International Journal of Medicobiological Research.*, 1(7): 345-347.
- M. Mohamed Imran and **N. Reehana**. 2011. Animal feed utilization using anaerobic microbial flora in cattles. *Journal of Pure and Applied Microbiology.*, 5(2):769-774.

BOOK CHAPTERS: Published: 07

- **N. Reehana**, M. Mohamed Imran, Thajuddin, N. and D. Dhanasekaran. (Editors.) (2021), **Synbiotics in Nutrition** (Eds) by D. Dhanasekaran, A. Sankaranarayanan. ISBN No: 978-0-12-822909-5. **Academic Press, Elsevier**, London Wall, United Kingdom, pages 149-161.
- M. Mohamed Imran, **N. Reehana**, G. Muralitharan, Thajuddin, N. and D. Dhanasekaran. (Editors.) (2021), **New Formulations and Products in Prebiotic Food** (Eds) by D. Dhanasekaran, A. Sankaranarayanan. ISBN No: 978-0-12-822909-5. **Academic Press, Elsevier**, London Wall, United Kingdom, pages 437-447.
- **N. Reehana**, M. Mohamed Imran, Thajuddin, N. and D. Dhanasekaran. (Editors.) (2021), **Role of Human Gut Microbiome in Health and Disease** (Eds) by D. Dhanasekaran Dhiraj Paul, N. Amaresan , A. Sankaranarayanan, Yogesh S. Shouche.

ISBN No: 978-1-003-03752-1. **CRC press, Tailor & Francis Group**, Boca Raton, FL, USA, pages 101-112.

- **N. Reehana**, M. Mohamed Imran, Thajuddin, N. and D. Dhanasekaran. (Editors.) (2019), **Cider Production Techniques in North America and Europe** (Eds) by A.Sankaranarayanan, N.Amaresan and D.Dhanasekaran. ISBN No: 13: 978-0-367-22422-6. **CRC press, Tailor & Francis Group**, Boca Raton, FL, USA, pages 329-340.
- M.Mohamed Imran, **N. Reehana**, G. Muralitharan, Thajuddin, N. and D. Dhanasekaran. (Editors.) (2019), **Fermented Indigenous Milk Products**. (Eds) by A.Sankaranarayanan, N.Amaresan and D.Dhanasekaran. ISBN No: 13: 978-0-367-22422-6. **CRC press, Tailor & Francis Group**, Boca Raton, FL, USA, pages 269-286.
- **N. Reehana**, M. Mohamed Imran, Thajuddin, N. and D. Dhanasekaran. D. (Editors.) (2018), **Cyanobacterial Toxins as Biolarvicides for Blood Sucking Vectors**. In: **Microbial Control of Vector Borne Diseases**. (Eds) by B.K.Tyagi and D.Dhanasekaran. ISBN No: 13: 978-1-138-05581-0. **CRC press, Tailor & Francis Group**, Boca Raton, FL, USA, pages 315-334.
- Contributed a book chapter on **Biological Techniques: A Laboratory Manual** (2016), under the title **“Response Surface Methodology (RSM)**. ISBN No.978-93-80622-41-5 edited by N.Thajuddin, T. Senthil Kumar and D. Dhanasekaran. Yazhini Publications, Cuddalore, pages 153-163.

RESEARCH SUPERVISION

	Guided	Thesis Submitted	Guiding
P.G.	13	-	03
M.Phil	02	-	01
Ph.D.	-	-	02

AS REVIEWER

No.	Journal Name	Publisher
1.	Biocatalysis and Agricultural Biotechnology	Elsevier
2.	Applied Biochemistry and Biotechnology	Springer

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Served as a **Coordinator of Microbiologist Society**, India for Bharathidasan University and their affiliated Colleges of Tamil Nadu state for a period of One year from 15th June 2020 to 14th June 2021.

OTHER ACADEMIC ACTIVITIES

- Member, Board of Studies in Microbiology (UG & PG), A.V.C. College (Autonomous), Mayiladuthurai from 2019 to 2022.
- Member, Board of Studies in Microbiology (B.Sc., M.Sc. and M.Phil) in Jamal Mohamed College, Trichy.

OTHER ACADEMIC RESPONSIBILITIES

- Innovation Coordinator from 2021 to till date.
- Department Placement officer from 2019 to till date
- Department Website in-charge from 2018 to till date.
- Acted as a vice president of Microbiology Association from 2019 – 2020.
- Department Library in-charge from 2016 to till date.

AWARDS/ HONOURS

- Awarded with **Maulana Azad National Fellowship (MANF)** for the year 2010 -11 by **University Grants Commission (UGC)**, Govt. of India, New Delhi (Ref. No: F1-17.1/2010/MANF-MUS-TAM-4822/SA-III/Website dated 22 September 2011).

(Best poster: 2; Best paper: 4)

- Received the **Best paper award** to the paper entitled "*Purification and Characterization of phycocyanin from the efficient cyanobacterial strains*" in two days National Symposium on "Recent Advances in Modern Biology and Rural Development" held at A.V.V.M Sri Puspham College, Poondi – 613 503, Thanjavur District, Tamilnadu on October 5th & 6th, 2017 jointly with the Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu.
- Received the **Best poster award** for the paper entitled "*Optimization and characterization of scytonemin produced by Oscillatoria boryana NTRI09 and Geitlerinema pseudacutissimum NTRI18*" held on November 15th - 17th, 2013 at Visva Bharathi (A Central University), Santiniketan, West Bengal.
- Received the **Best poster award** for the paper entitled "*Various environmental Stress conditions for the production of mycosporin like amino acids by Oscillatoria boryana NTRI12*" held on September 5th & 6th, 2013 at the Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu.

- Received the **Best paper award** to the paper entitled "*Biodiversity of microalgae in the Puliyanthangal lake of Ranipet of Tamil Nadu (India)*" held on July 20th – 21st, 2013 at National Academy of Biological Sciences (NABS) jointly with the Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu.
- Received the **Best paper award** to the paper entitled "*Phylogenetic characterization and homology modeling of C-Phycocyanin gene from Oscillatoria nigroviridis NTRI01*" held on March 25th – 26th, 2013 at Punjabi University, Patiala, Punjab, India.
- Received the **Best paper award** to the paper entitled "*Bio and chemical synthesis of nanoparticles and antimicrobial activity against isolated plant pathogens*" held on February 9th& 10th, 2011 at Dr. Zakir Hussain College, Ilayangudi – 630 702 jointly with Ganapathy College of Engineering, Paramakudi.
- Awarded with **second prize for proficiency in Microbiology** for the year **2010-2011** by Jamal Mohamed College (*Autonomous*), Tiruchirappalli.
- Awarded with **special award as joint secretary** for proficiency in department activities in Microbiology for the year **2008-2009** by Jamal Mohamed College (*Autonomous*), Tiruchirappalli.

PAPERS & POSTERS PRESENTED AT NATIONAL & INTERNATIONAL CONFERENCES: 11

- Presented paper on "**Extraction and Partial Characterization of Inulin from Garlic and Testing its Synbiotic Efficacy**" in National Seminar on "**Frontiers in Bio-mimicry Medicine (FBM 2019)**" held at Srinivasan College of Arts & Science, Perambalur on 01st February, 2019.
- Presented paper on "**Screening and optimization of Mycosporine like amino acids from *Anabaena variabilis* NTRI56**" in International Seminar on "**Life Science- Recent Trends & Applications**" held at Dhanalakshmi College of Arts & Science for Women, Perambalur on 09th February, 2018.
- Presented a research paper entitled "**Extraction and characterization of scytonemin from *Spirulina subsalsa* NTRI14**" in the International Seminar on "**Microbes, Microbial Processes and Products**" held on 12th September, 2017 at Department of Microbiology, Sengamala Thayar Educational Trust Womens College, Sundarakottai, Tamilnadu, India.
- Presented a research poster entitled "**Biodiversity and Molecular characterization of cyanobacteria in Vellore, Tamilnadu**" in National Conference on **Biodiversity, Biology and Biotechnology of Algae** held on January 9th & 10th, 2017 at University of Madras, Chennai, Tamilnadu, India.
- Presented a research poster entitled "**Biosynthesis and characterization of zinc oxide nanoparticle using *Lactobacillus* sp.**" in National Seminar on **Frontiers in**

Biosciences held on 5th March, 2016 at Jamal Mohamed College, Tiruchirappalli, Tamilnadu, India.

- Presented a research poster entitled **“Molecular phylogenetic and computational analysis of C-phycoyanin gene from cyanobacterium *Phormidium rubroterricola* NTR102”** held on 26th& 27th March, 2012 at Alagappa University, Karaikudi, Tamilnadu, India.
- Presented a paper entitled **“Extraction and Estimation of Phycobiliprotein from cyanobacteria *Oscillatoria salina* NTDM51 and *Oscillatoria chlorina* NTDM56”** held on 17th March 2012 at Jamal Mohamed College, Tiruchirappalli, Tamilnadu, India.
- Presented a paper entitled **“Sequence based *insilico* analysis of C-phycoyanin gene from the cyanobacterium *Oscillatoria salina* NTDM51”** held on February 17th& 18th, 2012 at Cauvery College for Women, Tiruchirappalli jointly with the Department of Microbiology, Bharathidasan University.
- Presented a paper entitled **“Structural analysis of C-phycoyanin gene from the selected Cyanobacteria”** held on July 7th- 9th, 2011 at Queen Mary’s College, Chennai, Tamilnadu.
- Presented a research poster entitled **“Scientific validation of medicinal plants”** held on January 24th& 25th, 2009 at Srimad Andavan Arts & Science College, Tiruchirappalli, Tamilnadu, India.
- Presented a research poster entitled **“Evaluating the prevalence of Syphilic associated with pregnant women and other individual”** held on September 19th, 2006 at Bishop Heber College, Tiruchirappalli, Tamilnadu, India.

WORKSHOPS & TRAININGS ATTENDED: 12

- Participated in one day National workshop on **“Bio-Informatics: future role of computing in Biology (FRCB-2020)”** on 13th February 2020 at Srinivasan College of Arts and Science, Perambalur, Tamilnadu, India.
- Participated in one day National workshop on **“Conservation of Indigenous Knowledge in Current Medicine System”** on 22nd February 2020 at Kongu College of Arts and Science, Karur, Tamilnadu, India.
- Participated in one day workshop on **“Staff Enrichment Programme on Ownership Culture”** by Internal Quality Assurance Cell on 14th June 2019 at Jamal Mohamed College, Tiruchirappalli, Tamilnadu, India.

- Participated in State Level Guest Lecture cum Hands on Workshop on **“An Overview of NGS methods, NGS File formats and Data Analysis & Variant Analysis of NGS Data using GALAXY Server”** on 23rd January 2019 at Bishop Heber College, Tiruchirappalli, Tamilnadu, India.
- Participated in two day workshop on **“Professional Development for Academic Leadership in Curriculum Design”** by Curriculum Development Cell on 18th & 19th January 2019 at Jamal Mohamed College, Tiruchirappalli, Tamilnadu, India.
- Participated in one day workshop on **“Writing Winnable Project Proposals”** by Internal Quality Assurance Cell on 23rd June 2018 at Jamal Mohamed College, Tiruchirappalli, Tamilnadu, India.
- Participated in a State Level workshop on **“Organic Farming Production (An Entrepreneurship Programme)”** held on 27th & 28th January 2017 at Jamal Mohamed College, Tiruchirappalli, Tamilnadu, India.
- Participated in one day workshop on **“The Role of a Teacher in the Present Scenario”** organized by Internal Quality Assurance Cell on 10th December, 2016 at Jamal Mohamed College, Tiruchirappalli.
- Participated ten days hands on training workshop on **“Techniques in Animal Cell Culture and In Vitro Toxicology”** held on April 1st - 10th, 2014 at Mahatma Gandhi-Doerenkamp Center (MGDC), Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Participated a six days workshop on **“Short term training programme in HPLC, GC, and AAS”** held on January 5th -10th, 2013 at VIT University, Vellore, Tamilnadu, India.
- Participated a three days' workshop on **“DNA Barcoding of Fish and Marine Life-Molecular Analysis and Bioinformatics Approaches (FISHCODE 2012)”** held on September 12th – 14th , 2012 at Department of Marine Science, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Participated two days workshop on **“Hands on training programme on PCR, 2D PAGE, Gel documentation and Nikon photo Microscopy”** held on September 24th& 25th, 2009 at Jamal Mohamed College (*Autonomous*), Tiruchirappalli, Tamilnadu, India.

SEMINARS ATTENDED: 05

- Participated one day International Seminar on **“Emerging Trends in Biological Research (ETBR 2018)”** held on March 03rd, 2018 organized by Department of Microbiology, Jamal Mohamed College, Tiruchirappalli.

- Participated two days National Seminar on **“Cutting Edge Microbial Research and Challenges”** held on September 25th& 26th, 2013 organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Participated One Day ICMR sponsored National Level Forum on **“Emerging Debates on Communicable Disease”** held on February 28th, 2011 organized by Department of Microbiology, Jamal Mohamed College, Tiruchirappalli.
- Participated One Day National Seminar on **“Diagnosis of Infectious Diseases by Molecular Biological Methods”** held on February 29th, 2010 organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Participated One Day Seminar on **“Advances in Molecular Biosciences”** held on November 25th, 2009 organized by Department of Molecular Biosciences, Bishop Heber College, Tiruchirappalli.

ACTED AS RESOURCE PERSON: 17

- Acted as an Executive Committee Member in A State Level Workshop on **“Production and Formulation of Bioinoculants”** held on 31st March 2022 organized by P.G and Research Department of Microbiology, Jamal Mohamed College (Autonomus), Tiruchirappalli in association with Internal Quality Assurance Cell (IQAC).
- Acted as a Judge for the Slogan Competition in the **International e Conclave on Women Scientist in Science and Technology with Special Reference to Biotechnology (IWSC22)** held on 9th March 2022 organized by Nano & Biomaterials Association, School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai in association with Biotech Research Society, India (BRSI).
- Delivered a lecture in **“National workshop on Molecular Methods in Taxonomy to Biotechnology of Actinobacteria and Cyanobacteria (MoMeTBAC-22)”** held on 8th March 2022 organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Acted as a Judge for the poster presentation in the National Science Day Celebrations- 2022 held on 25th to 28th February 2022 organized by Jamal Mohamed College, (Autonomus), Tiruchirappalli.
- Delivered a lecture in **“Viable products from biomaterials: A startup perspective”** held on 23rd February 2022 organized by Jamal Innovation and Incubation Center (JIIC), Jamal Mohamed College (Autonomus), Tiruchirappalli in association with Institution’s Innovation Council (IIC), Ministry of Education Cell (MIC).

- Delivered a lecture in **“RSM & Microalgal Pigment Technology”** held on 16th April 2021 organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Acted as a Resource person in the National Webinar on **“IP and Wealth Creation”** held on 9th February 2021 organized by the Department of Botany, Bishop Heber College, Tiruchirappalli. Tamilnadu, India.
- Acted as a Judge in the International Level Virtual Lecture-**Workshop and Drawing Competition on Microbiologist in World Scenario** held on November 24th to November 25th 2020 organized by the School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai in association with Microbiologists Society, India.
- Acted as Evaluator in **State Level 27th National Children’s Science Congress-2019** co-ordinated by **Tamilnadu Science Forum (TNSF)** during 15th &16th November 2019 held at Arcot Sri Mahalakshmi College for Women, Vilappakkam, Arcot.
- Acted as Evaluator in **‘The Future Scientist’ programme** for school students organized by **Tamilnadu Science Forum (TNSF)** jointly with The Hindu and VIT, Vellore on 13 October, 2019 held at National College (Autonomous), Tiruchirappalli – 620 001.
- Delivered a lecture in Refresher course of Life sciences on **“Microalgal biodiesel production, Mushroom cultivation and Response surface methodology”** held on June 28th, 2018 at Bharathidasan University, organized by UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Acted as judge in the **Cenitterz’17, an intercollegiate science event** organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu, India on February 28th, 2017.
- Delivered a lecture in Refresher course of Life sciences on **“Response surface methodology”** held on November 11th, 2016 at Bharathidasan University, organized by UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Delivered a lecture in Refresher course of Life sciences on **“Response surface methodology”** held on March 9th, 2016 at Bharathidasan University, organized by UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.

- Acted as Resource person in a one day workshop on **“DNA Finger Printing”** held on October 3rd, 2015 at A.V.V.M Sri Pushpam College, jointly organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Acted as Resource person in a one day workshop on **“Advanced Molecular Techniques”** held on October 31st, 2015 at Bharathidasan University Constituent College for Women, jointly organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamilnadu, India.
- Acted as Resource person in a one day workshop on **“DNA Finger Printing”** held on December 11th, 2013 at Government Arts College for Women (*Autonomous*), Pudukkottai, Tamilnadu, India.

WEBINARS ATTENDED: 50

- Participated in the one day National Webinar on **“E-Waste Management”** held on October 28th, 2021 organized by Leo Club, Cauvery College for women (Autonomus), Trichy, Tamil Nadu.
- Participated in the Two days International Conference on **“Recent Trends in Drug Discovery and Development”** held during October 08th to 09th, 2021 organized by the Department of Chemistry under the aegis of IQAC, Maitreyi College, University of Delhi on virtual platform.
- Participated in the one day webinar on **“Patent Filing Process and Challenges”** held on September 30th, 2021 organized by Intellectual property rights Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli.
- Participated in the one day International Webinar on **“Global Issues: Gender Equality & Women’s Empowerment”** held on November 11th, 2021 organized by IQAC cell and PG and Research Department of Biotechnology, Mohamed Sathak College of Arts and Science, Chennai, India, in association with International Internship University, Romania.
- Participated in the one day International virtual colloquium on **“Microbiome World: Survival versus Expiry ”** held on July 9th, 2021 organized by Department of Microbiology, Srinivasan College of Arts and Science, Perambalur, Tamil Nadu.
- Participated in the one day International webinar on **“Microbiome: Understanding the host pathogen interactions”** held on June 18th, 2021 organized by Department of Zoology, Sadakathullah Appa College, Tirunelveli, Tamil Nadu.
- Participated in the Two days International webinar on **“Current Scenario in Therapeutics- Prospects and Challenges”** held on March 18th to March 19th, 2021

organized by Department of Life Science, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli.

- Participated in one day National Webinar on **“Patenting of Biotechnological Inventions in India”** held on January 29th, 2021 organized by Guru Nanak College (Autonomous), Chennai.
- Participated in the 2nd International conference on **“Recent Trends in Biotechnology (ICRTB-2021)”** held on January 19th, 2021 organized by Department of Biotechnology, Jamal Mohamed College, Tiruchirappalli.
- Participated International e-Conference on **“Cyanobacterial and Algal Biotechnology (CAB’2020)”** held on December 18th to December 20th, 2020 organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Participated in one day Webinar on **“National Education Policy- 2020”** held on August 8th, 2020 organized by Internal Quality Assurance Cell of Jamal Mohamed College, Tiruchirappalli.
- Participated in International Webinar Lecture Series on **“Biological Sciences”** held on July 6th to July 8th, 2020 organized by PG & Research Department of Botany, Jamal Mohamed College, Tiruchirappalli.
- Participated in the International level online panel discussion on **“Leading the way forward in unprecedented times: with a special reference to the global market and economy”** held on July 6th, 2020 organized by CMS, Jain (Deemed to be university), Bengaluru.
- Participated in one day National level Webinar on **“Introduction to Big Data and its Ecosystems”** held on July 5th, 2020 organized by PG Department of Computer Science, Government Arts and Science College, Gudalur, Nilgiris.
- Participated in National Webinar on **“Development of selected Multi-Valent Metal Ions functionalized Mesoporous Materials and their Applications”** held on July 2nd, 2020 organized by Department of Science and Humanities, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai.
- Participated in one day Webinar on **“Recent Trends in Medical Microbiology”** held on July 2nd, 2020 organized by PG & Research Department of Microbiology, Idhaya College for Women, Kumbakonam.
- Participated in two days International Webinar on **“Recent Advances in Life Science”** held on June 19th to June 20th, 2020 organized by PG & Research

Department of Biotechnology and Biochemistry, Marudhar Kesari Jain College for Women, Vaniyambadi

- Participated in Webinar on **“Virtual Symposium on Multifunctional Materials”** held on June 17th, 2020 organized by Department of Physics, SRM Institute of Science and Technology.
- Participated in National Webinar on **“Combat Corona- The New World Order”** held on June 16th, 2020 organized by Department of Chemistry and Biochemistry, Jyothi Nivas College Autonomous.
- Participated in International Level Webinar on **“Role of Nutrients in Immune Health- Special focus on COVID 19”** held on June 15th, 2020 organized by PG Department of Home Science, Queen Mary’s College, Chennai.
- Participated one day Webinar on **“Research, Innovations and Extension”** held on June 15th, 2020 organized by Internal Quality Assurance Cell, Khadir Mohideen College, Adirampattinam.
- Participated one day National level Webinar on **“Role of Nanomaterials in Electrochemical devices and photocatalysis”** held on June 15th, 2020 organized by Dr.M.G.R Educational and Research Institute, Chennai.
- Participated two days International Webinar on **“Research Avenues in Biochemistry”** held on June 11th and June 12th, 2020 organized by The American College, Madurai.
- Participated in International Web Conference on **“Emergence of Alternative Therapeutic to Contagious Diseases”** held on June 11th and June 12th, 2020 organized by PG and Research Department of Zoology, Sri Vasavi College, Erode.
- Participated in Webinar on **“Microalgal Genes- The Novel Therapeutic Tool to Engineer Crop Plants”** held on June 9th, 2020 organized by Department of Biotechnology, Sri Venkateshwara College of Engineering.
- Participated in Webinar on **“Current & Sustainable Trends in Food Biotechnology”** held on June 9^h, 2020 organized by Department of Biotechnology, St. Peter’s College of Engineering & Technology, Chennai.
- Participated in Webinar on **“Biotherapeutic Role of Probiotics”** held on June 5th, 2020 organized by Department of Biotechnology, Sri Venkateshwara College of Engineering.

- Participated two days International Virtual Conference on COVID 19 **“Recent Updates and Current Advances”** held on June 3rd and June 4th, 2020 organized by Department of Microbiology, The American College, Madurai.
- Participated one day Webinar on **“How to start an NGO and handle projects efficiently”** held on June 3rd, 2020 organized by Madras School of Social work, Chennai.
- Participated one day Webinar on **“Transforming Challenges into Opportunities- An Overview of Corporate Secretaryship”** held on June 3rd, 2020 organized by The Alpha Arts and Science College.
- Participated in one day International Webinar on **“Graphology for Personality Assessment and Development”** held on June 2nd, 2020 organized by Department of Forensic Science, G.T.N. Arts College (Autonomous), Dindigul.
- Participated in the Indo-UK Virtual Conference on **“Current Innovations and the Future of Therapeutic Developments”** held on June 1st to June 3rd, 2020 organized by Vellore institute of Technology, Vellore.
- Participated in two days International Webinar on **“Recent trends in Applied Sciences”** held on May 29th and May 30th, 2020 organized by Senthil Research Advocacy Forum, V.H.N. Senthikumara nagar College, Virudhunagar.
- Participated in Webinar on **“Magnetic Nanocarriers for Enhanced Enzyme Activity”** held on May 30th, 2020 organized by Department of Biotechnology, Prathyusha Engineering College, Chennai.
- Participated in Leadership Talk on **“Indian Civilization and History”** held on May 30th, 2020 organized by MHRD’s Innovation Cell.
- Participated one day National Webinar on **“Essence of physical fitness during lockdown”** held on May 30th, 2020 organized by Dr.M.G.R Educational and Research Institute, Chennai.
- Participated in three day International Webinar conference on **“Biomaterials on Healthcare Application”** held on May 28th to May 30th, 2020 organized by Department of Biotechnology, Karunya Institute of Technology and Sciences.
- Participated one day Webinar on **“A Stroll through the mystical Quantum Mechanics”** held on May 29th, 2020 organized by PG Department of Physics, Bhaktavatsalam Memorial College for Women, Chennai.

- Participated one day Webinar on **“Metal complexes to metal nanoparticles for efficient catalysis”** held on May 28th, 2020 organized by School of Chemical and Biotechnology, SASTRA Deemed to be University.
- Participated one day National Webinar on **“Investigations of Nano-Crystals”** held on May 25th, 2020 organized by Department of Chemistry and Research & Development Cell, MASS College of Arts and Science, Kumbakonam.
- Participated one day International Webinar on **“COVID-19 Vaccine Development”** held on May 15th, 2020 organized by Department of Microbiology, Ayya Nadar Janaki Ammal College (Autonomus), Sivakasi.
- Participated one day Webinar on **“Why Train Faculty”** held on April 30th, 2020 organized by Biocon Academy.
- Has successfully completed the course **“Defeat COVID-19 be a champion”** on April 29, 2020 organized by Gulf Medical University, Academic Health Center.
- Participated Health Emergencies programme on **“Clinical Care Severe Acute Respiratory Infection”** held on April 23rd, 2020 organized by World Health Organization.
- Participated Health Emergencies programme on **“Severe Acute Respiratory Infection (SARI) Treatment Facility Design”** held on April 20th, 2020 organized by World Health Organization.
- Participated Health Emergencies programme on **“Emerging respiratory viruses, including COVID-19: methods for detection, prevention, response and control”** held on April 18th, 2020 organized by World Health Organization.
- Participated one day E-Conference on **“Contagious Disease Management: Perspective to COVID-19”** held on April 16th, 2020 organized by Biological Science Forum (A Scientific Community of India).
- Has successfully completed 5 days online course on **“Stress Management”** held on April 13- 17th, 2020 organized by Department of Management and Research, AVS College of Arts & Science, Salem.
- Participated Health Emergencies programme on **“ePROTECT Respiratory Infections (EN)”** held on April 12th, 2020 organized by World Health Organization.
- Participated Health Emergencies programme on **“Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19)”** held on April 12th, 2020 organized by World Health Organization.

ONLINE FACULTY DEVELOPMENT PROGRAMME ATTENDED: 13

- Participated in one day online Faculty Development Programme on **“Intellectual Property Rights”** held on 9th February 2022 organized by Post Graduate and Research Department of Physics and Institution's Innovation Council, Jamal Mohamed College (Autonomus), Tiruchirappalli.
- Participated in the 3 days Faculty Development Programme on **“Challenges in Microbiological Invention and Intellectual Property Rights”** held from 2^{3rd} September to 2^{5th} September 2021 organized by Internal Quality Assurance Cell, Ayya Nadar Janaki Ammal College, Sivakasi under UGC PARAMARSH Scheme.
- Participated in the 6 days International Faculty Development Programme on **“Recent Trends in Transforming Life Sciences – Focus on Academia & Industry Symbiosis”** from 13th September to 18th September 2021 organized by Department of biotechnology, Nizam College (Autonomous), in association with Government City College and Loyola Academy, Hyderabad.
- Participated in the 5 days Faculty Enrichment Programme held on 21st June to 25th June 2021 organized by Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli.
- Participated in the 5 days Short Term Training Programme on **“Be the change teaching learning process”** held on 5th April to 10th April 2021 organized by HR and Faculty training academy, B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai.
- Participated in the One Week Short Term Training Programme (STTP)- online (AQIS 2019-2020) on **“Training for Teachers Orientation for Newly Admitted Students”** held on 22nd February to 27th February 2021 organized by Department of Science and Humanities, Indra Ganesan college of engineering, Tiruchirappalli.
- Participated in six days Faculty Development program on **“E-Content Development”** held on 30th June to 4th July 2020 organized by Internal Quality Assurance Cell of Jamal Mohamed College, Tiruchirappalli.
- Participated in one day Faculty Development Webinar on **“Drug Design & Development”** held on 10th June 2020 organized by Department of Chemistry, Sapthagiri College of Engineering, Bangalore.
- Participated in one day National Level Live Faculty Development Programme (Webinar) on **“Future of Examinations: Bloom's Taxonomy and Multiple Assessment Tools”** held on June 8th, 2020 organized by G.T.N. Arts College (Autonomous), Dindigul.

- Participated five days Online Faculty Development program on **“Evolution of Teaching Learning Process- POST COVID 19”** held on 11th May to 15th May 2020 organized by Bharath Institute of Higher Education and Research.
- Participated one day Online Faculty Development program- Webinar on **“Trends and opportunities in Life Science Sector”** held on 3rd May 2020 organized by PG Department of Microbiology, Cauvery College for Women (Autonomous), Trichy.
- Participated two days Online Faculty Development programme on **“SPSS for U-Writing a Research Article”** held on 25th& 26th April 2020 organized by Academy of Maritime Education and Training (AMET)- Deemed to be University, Kanathur, Chennai, Tamilnadu & DK International Research Foundation, Perambalur, Tamilnadu.
- Attended the Faculty Development Program – Zoom Webinar Series on **“Novel Microbes and Newer Threats”** held on 20th April - 2nd May, 2020 organized by Sathyabama Institute of Science and technology in association with Indian Association of Applied Microbiologists (IAAM) & California Institute of Science and Medicine, USA.

ONLINE WORKSHOPS ATTENDED: 03

- Participated in the International e-Lecture Workshop on **“Innovation in Biotechnology & Inauguration of Nano and Biomaterials Association (NBA)”** held on January 19th to 20th, 2022 organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India in association with the Biotech Research Society, India (BRSI).
- Participated in the Science Academics’ (Virtual) Lecture Workshop on **“Recent Trends in Microbiology and Biotechnology”** held on February 14th and February 15th 2021 organized by Department of Biotechnology, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli.
- Participated in National level Workshop (Webinar) on **“Cyber Security During Covid-19”** held on May 3rd, 2020 organized by Smt.K.G.Mittal College (IQAC Committee) & IAA-TB.

WEBINARS ORGANIZED: 03

- ❖ Organized the Virtual Guest Lecture programme on **“Career in Life Science and Biotechnology”** at PG and Research Department of Microbiology, Jamal Mohamed College, Tiruchirappalli on 19.08.2021.

- ❖ Organized the 2nd International Webinar on “Microbes and Neoteric Research (IWMNR-2020)” at PG and Research Department of Microbiology, Jamal Mohamed College, Tiruchirappalli jointly with Microbiologists Society, India on 22.12.2020.
- ❖ Organized the State level webinar “Analysis of Food Borne Pathogens- An Introduction” at P.G. & Research Department of Microbiology, Jamal Mohamed College, Tiruchirappalli on 16.05.2020.

DETAILS OF 16S rRNA, PHYCOCYANIN GENE AND 18S rRNA GENE SEQUENCES DEPOSITED IN THE GENBANK (NCBI, EMBL & DDBJ)-(53 ACCESSIONS)

S.No	Culture name	Accession number
1.	<i>Chroococcus aphanocapsoides</i> NTRI07	Cyanobacteria-16S rRNA KF752432
2.	<i>Chroococcidiopsis</i> sp. NTRI15	Cyanobacteria-16S rRNA KF752441
3.	<i>Chroococcidiopsis</i> sp. NTRI16	Cyanobacteria-16S rRNA KF752440
4.	<i>Pleurocapsa</i> sp. NTRI10	Cyanobacteria-16S rRNA KF752435
5.	<i>Pleurocapsa</i> sp. NTRI11	Cyanobacteria-16S rRNA KF752436
6.	<i>Spirulina subsalsa</i> NTRI14	Cyanobacteria-16S rRNA KF752439
7.	<i>Oscillatoria</i> sp. NTRI03	Cyanobacteria-16S rRNA KF536583
8.	<i>Oscillatoria</i> sp. NTRI04	Cyanobacteria-16S rRNA KF536584
9.	<i>Oscillatoria tenuis</i> NTRI06	Cyanobacteria-16S rRNA KF536586
10.	<i>Oscillatoria boryana</i> NTRI09	Cyanobacteria-16S rRNA KF752434
11.	<i>Oscillatoria</i> sp. NTRI17	Cyanobacteria-16S rRNA KF752442
12.	<i>Oscillatoria calcuttensis</i> NTRI19	Cyanobacteria-16S rRNA KF985040
13.	<i>Oscillatoria tenuis</i> NTRI20	Cyanobacteria-16S rRNA KP030747
14.	<i>Phormidium</i> sp. NTRI13	Cyanobacteria-16S rRNA KF752438
15.	<i>Phormidium</i> sp. NTRI60	Cyanobacteria-16S rRNA KP030749
16.	<i>Leptolyngbya boryana</i> NTRI02	Cyanobacteria-16S rRNA KF536582
17.	<i>Leptolyngbya</i> sp. NTRI05	Cyanobacteria-16S rRNA KF536585
18.	<i>Leptolyngbya</i> sp. NTRI37	Cyanobacteria-16S rRNA KP030752
19.	<i>Leptolyngbya</i> sp. NTRI66	Cyanobacteria-16S rRNA KP030750
20.	<i>Geitlerinema</i> sp. NTRI08	Cyanobacteria-16S rRNA KF752433
21.	<i>Geitlerinema</i> sp. NTRI12	Cyanobacteria-16S rRNA KF752437
22.	<i>Geitlerinema pseudacutissimum</i> NTRI18	Cyanobacteria-16S rRNA KF985039
23.	<i>Geitlerinema</i> sp. NTRI68	Cyanobacteria-16S rRNA KP030751
24.	<i>Nodosilinea</i> sp. NTRI45	Cyanobacteria-16S rRNA KP030748
25.	<i>Oscillatoria nigroviridis</i> NTRI01	Phycocyanin gene JX294543
26.	<i>Lactobacillus casei</i> NTMI01	Bacteria-16S rRNA gene KT696583
27.	<i>Enterococcus casseliflavus</i> NTMI04	Bacteria-16S rRNA gene KT696584
28.	<i>Klebsiella pneumoniae</i> NTMIK1	Bacteria-16S rRNA gene KT696585
29.	<i>Lactobacillus delbrueckii</i> NTMI12	Bacteria-16S rRNA gene KT696586
30.	<i>Lactobacillus delbrueckii</i> NTMI13	Bacteria-16S rRNA gene KT696587
31.	<i>Enterococcus</i> sp. NTMI17	Bacteria-16S rRNA gene KT696588
32.	<i>Enterococcus casseliflavus</i> NTMI18	Bacteria-16S rRNA gene KT696589

33.	<i>Enterococcus</i> sp. NTMI21	Bacteria-16S rRNA gene	KT696590
34.	<i>Enterococcus faecium</i> NTMI22	Bacteria-16S rRNA gene	KT696591
35.	<i>Enterococcus canintestini</i> NTMI30	Bacteria-16S rRNA gene	KT726154
36.	<i>Lactobacillus plantarum</i> NTMI05	Bacteria-16S rRNA gene	KP901272
37.	<i>Lactobacillus plantarum</i> NTMI20	Bacteria-16S rRNA gene	KP901273
38.	<i>Lactobacillus plantarum</i> TMDIM7	Bacteria-16S rRNA gene	KJ621680
39.	<i>Bacillus cereus</i> TMDIB1	Bacteria-16S rRNA gene	KJ621681
40.	<i>Enterobacter asburiae</i> strain B938	Bacteria-16S rRNA gene	KC759524
41.	<i>Stenotrophomonas maltophilia</i> B929	Bacteria-16S rRNA gene	KC759523
42.	<i>Stenotrophomonas maltophilia</i> B19	Bacteria-16S rRNA gene	KC759522
43.	<i>Klebsiella</i> sp. U759	Bacteria-16S rRNA gene	KC751005
44.	<i>Chromobacterium violaceum</i> NTAIR01	Bacteria-16S rRNA gene	ON195257
45.	<i>Poterioochromonas</i> sp. NTNVO5	Green algae-18S rRNA	JN402973
46.	<i>Poterioochromonas</i> sp. NTNVO4	Green algae-18S rRNA	JN402972
47.	<i>Hartmannella vermiformis</i>	Green algae-18S rRNA	JN402971
48.	<i>Botryococcus</i> sp. NTNVO8	Green algae-18S rRNA	JN402970
49.	<i>Poterioochromonas</i> sp. NTNVO7	Green algae-18S rRNA	JN402969
50.	<i>Poterioochromonas</i> sp. NTNVO6	Green algae-18S rRNA	JN402968
51.	<i>Poterioochromonas</i> sp. NTNVO3	Green algae-18S rRNA	JN402967
52.	<i>Poterioochromonas</i> sp. NTNVO2	Green algae-18S rRNA	JN402966
53.	<i>Poterioochromonas</i> sp. NTNVO1	Green algae-18S rRNA	JN402965

PROFICIENCY IN TECHNIQUES

- Basic Microbiological techniques
- Antimicrobial Susceptibility Testing
- Immunological techniques and Biochemical techniques
- Spectrometric studies
- Plasmid & genomic DNA isolation and gene amplification
- Electrophoresis techniques (Agarose gel, SDS-PAGE)
- Bioinformatics softwares (NCBI, Design expert 7.1.6, *insilico* analysis, Origin, Mega 5.04, Neb cutter, 1° structure, 2° structure and 3 dimensional structure prediction, Molecular modeling).

INSTRUMENTS PROFICIENCY

- PCR thermal cycler
- FT-IR
- Ultra Sonicator
- Microscope
- Lyophilizer
- Gel Documentaion
- Atomic Absorption Spectrophotometer
- HPLC

PERSONAL DETAILS

Date of Birth : 24-03-1987
Sex : Female
Father : M. Nazar
Mother : N. Musthri
Nationality : Indian
Religion : Muslim
Marital Status : Married
Blood Group : A +^{ve}
Mother Tongue : Urdu
Linguistic Abilities : English, Tamil, Urdu

Dr. N. REEHANA