

BIODATA

M. S. Shabeena Banu., M.Sc. (Biotechnology), DMLT., DMT., Ph. D.,

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CAREER OBJECTIVE:

Seeking a challenging career position in a dynamic organization and to aid in the increment of grades that rewards initiative and superior performance with long-term opportunities for professional growth.

EDUCATIONAL QUALIFICATION:

| Qualification | Period | Institute | Board/ University | Percentage & Class |
|---------------------|-----------|--|--------------------------|--------------------------------------|
| M.Sc. Biotechnology | 2009-2011 | Holy Cross College, Trichy. | Bharathidasan University | 83.6% (I- Class-Distinction) |
| B.Sc. Biochemistry | 2006-2009 | Holy Cross College, Trichy. | Bharathidasan University | 80% (I- Class-Distinction) |
| Class 12 | 2006 | St. Joseph's Anglo Indian. Hr. Sec. School Trichy. | State Board | 77% (I- Class-Distinction) |
| Class 10 | 2004 | St. James. Mat. Hr. Sec. School. Trichy. | Matriculation | 77% (I- Class-Distinction) |

ADDITIONAL QUALIFICATIONS:

- Six months Diploma in Medical Laboratory Technique (DMLT), during the year 2009, Holy Cross College (Autonomous), Tiruchirappalli.
- Six months Diploma in Medical Transcription (DMT), during the year 2009, NHIT, Tiruchirappalli.
- Certificate course in Water Quality Analysis, Dept. of Biochemistry (2006), Holy Cross College (Autonomous), Tiruchirappalli.

CURRENT POSITION:

Currently perusing as Ph.D. (Biotechnology), Full time Research Scholar (2018-2023), under the guidance of Dr. T. Nargis Begum, Department of Biotechnology, Jamal Mohamed College, Tiruchirappalli, on "Antimicrobial and Anticancer activity of Lichen associated endophytic Actinobacteria from Hilly Regions of Tamil Nadu, India.

CREDENTIALS:

- Honored for "**Proficiency in Biochemistry**" (2006-2007), Holy Cross College (Autonomous), Tiruchirappalli.

- Honored for “**Proficiency in General English**” (2006-2007), Holy Cross College (Autonomous), Tiruchirappalli.
- Honored for “**Proficiency in Ethics**” (2009-2010), Holy Cross College (Autonomous), Tiruchirappalli.
- Awarded **Ist Place in Quiz Competition** during the **State Level Seminar** on “Recent Trends in Pharmacotherapeutics”, organized by the Department of. Biochemistry (2008), Holy Cross College (Autonomous), Tiruchirappalli.
- Awarded **IInd Prize in “Quiz Competition” in Intra-Departmental competition** (2010), at Holy Cross College (Autonomous), Tiruchirappalli.
- Awarded **IInd Prize in “ADZUP” in Intra-Departmental competition** (2010), at Holy Cross College (Autonomous), Tiruchirappalli.
- Awarded **IInd prize in “Block and Tackle” in the Inter Collegiate Competition** “Bio- Utsav’ 10” funded by DST- FIST & DST – BIF, organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli.
- Have participated in various other Intra and Inter Collegiate competitions conducted by various colleges and won many prizes and certificates.

LEADERSHIP AWARDS:

- Honored and served as “**Association Representative**” during the year 2006-2007, at Department of Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli.
- Honored and served as “**Class Representative**” during the year 2007-2008, at Department of Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli.
- Honored with “**Best Leadership award**” for the **Excellence as Student Council Member** during the year 2008-2009, for the Department of Biochemistry, Holy cross College (Autonomous), Tiruchirappalli.
- Honored and served as “**Class Representative**” during the year 2009-2010, at Department of Biotechnology, Holy Cross College (Autonomous), Tiruchirappalli.

SPORTS

- Honored “ **Ist place in Hockey- Intra College Competitions**” (2009), Holy Cross College, Trichy.

CONFERENCE & WORKSHOPS ATTENDED:

- Participated in state level seminar on “Nanotechnology in Biology and Medicine” (2009), organized by the Department of Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli.
- Participated in the International conference on “Frontiers in Biomedical Sciences” (2009), funded by UGC, DST, DBT, ICMR CSIR, organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli.
- Participated in “Meet the Press in Biodiversity Conservation Awareness Program held at Department of Zoology (2010), at Holy Cross College (Autonomous), Tiruchirappalli.
- Participated in National Symposium on “*In-silico & In-vitro Studies in Biology*” (2010), funded by DBT, organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli.
- Undergone Summer Training Programme on “Molecular Modeling” held at DBT-BIF Centre (2010), Holy Cross College, Trichy.
- Participated in workshop on “Advanced Techniques in Phytochemical Analysis for Herbal Drugs”, held at SIMPRA (2010) Thanjavur, sponsored by Indian Council of Medical Research (ICMR), Govt. of India, New Delhi.

- Participated in workshop on “Colloquium on *In Vitro* Toxicology and Vaccinology” held at Mahatma Gandhi- Dorenkamp Centre (MGDC), Bharathidasan University (2010), Trichy.
- Participated in International Conference on “Innovations and challenges in Biomedical Sciences Research” (2017), funded by ICMR organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli.
- Attended the National Seminar on “Microbes in Women Health” (2019), Organized by the Department of Microbiology, Bharathidasan University, Tiruchirappalli in Collaboration with Trichy Obstetric and Gynecological Society (TRIOGS), Tamil Nadu, India, sponsored by International Society for Microbial Ecology (ISME), The Netherlands.
- Participated in the “Prof. T. V. Desikachary Birth Centenary International Symposium on Biodiversity, Biology and Biotechnology of Algae (ISBBA- 2020)”, organized by the Centre for Advanced Studies in Botany, University of Madras, Chennai, Tamil Nadu, India.
- Participated in DST-PURSE, Govt. India Sponsored International e-Conference on “Cyanobacterial and Algal Biotechnology (CAB ‘2020)” organized by National Repository for Microalgae & Cyanobacteria-Freshwater (NRMCF), Bharathidasan University, Tiruchirappalli, sponsored by the DBT, Govt. of India.
- Participated in online workshop on “DNA Bar-Coding: A Challenge to Linnaeus Classification” (2021) organized by CytoGene Research & Development, Lucknow.
- **Hands on Training Programme on Gas Chromatography & Mass Spectrometry (GC-MS)**-organized by Col. Dr. Jeppiaar Research Park, Centre for Ocean Research jointly with Department of Chemistry & Sathyabama TBI (2021) in association with the Ministry of Earth Sciences- Earth Science Technology Cell (MoES-ESTC).
- Participated in National Hands-on Workshop on “Molecular Methods in Taxonomy to Biotechnology of Actinobacteria and Cyanobacteria (MoMeTBAC-22), sponsored by RUSA 2.0- Biological Sciences, organized by the Department of Microbiology, Bharathidasan University, Tiruchirappalli.
- Attended National seminar on Future of Algal Biotechnology (FAB-2022) organized by the Department of Microbiology, Bharathidasan University, in association with National Repository for Microalgae and Cyanobacteria and Microbiologist Society of Indian (MBSI).
- Attended an “Entrepreneurship Programme on Oyster Mushroom Farming for the Empowerment of Rural Population”, organized by the Department of Microbiology, School of Life Sciences, Bharathidasan University, Tiruchirappalli.

ORAL AND POSTER PRESENTATIONS:

- Poster Presentation in state level seminar on “Nanotechnology in Biology and Medicine” (2009), organized by the Department of Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli.
- Awarded IInd prize in Poster presentation in Intra Departmental Competition (2011).
- Poster presentation in International Conference on “Innovations and challenges in Biomedical Sciences Research” (2017), funded by ICMR organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli.
- Oral presentation in International Conference on “International Conference on Microbiome and Synthetic Biology (ICNSB 22)” (DST-SERB & INSA Sponsored- 2022), organized by the Department of Microbiology, School of Life Sciences, Bharathidasan University, Tiruchirappalli.
- Oral presentation in National conference on “Post COVID-19 complications- A Biotechnological Approach (PCBA’22)”, DBT sponsored-2022, organized by Department of Microbiology, Jamal Mohamed College, Tiruchirappalli.

PAPER PUBLICATION:

1. Zaheer, U., Hassain, N.A., **Banu, S.**, & Mathew, S., (2021). Oncolytic Viruses as Nanomedicines against the Tumor Microenvironment. *Biointerface Res. Appl. Chem*, 11, 14825-14852.

BOOK CHAPTERS PUBLISHED:

1. **Banu, M. S.**, Nargis Begum, T., Vinothini, G., Dhanasekaran, D., & Thajuddin, N. (2022). Isolation of Epiphytic Actinobacteria from Lichens. In *Methods in Actinobacteriology* (pp. 121-130). Humana, New York, NY.
(Methods in Actinobacteriology BOOK, Springer Protocols Handbooks (Springer Protocols, Springer Nature, New York).
2. **Banu, M. S.**, Nargis Begum, T., Dhanasekaran, D., & Thajuddin, N. (2022). Isolation of Endophytic Actinobacteria from Lichens. In *Methods in Actinobacteriology* (pp. 131-139). Humana, New York, NY.
(Methods in Actinobacteriology BOOK, Springer Protocols Handbooks (Springer Protocols, Springer Nature, New York).
3. Gopal, V., **Banu, M. S.**, Siddharthan, S., & Dharumadurai, D. (2022). In Vitro Assessment of Actinobacteria for Survivability Under Simulated Gastrointestinal Transit. In *Methods in Actinobacteriology* (pp. 545-548). Humana, New York, NY. (Methods in Actinobacteriology BOOK, Springer Protocols Handbooks (Springer Protocols, Springer Nature, New York).

PROJECT DETAILS:

M.Sc: “Protective effect of Phytochemicals mediated Green Gold Nanoparticles against Rotenone induced neurotoxicity in Human Dopaminergic SH-SY5Y cells”.

B.Sc : “Cloning of Green Fluorescent Protein (GFP) and its Expression in *E.coli*”.

Short Term Project (Bioinformatics): “Homology modeling of HspX protein of *Mycobacterium tuberculosis* in Human”.

PERSONAL PROFILE:

Date of Birth: 16.04.1989

Sex: Female

Father's Name: M. Mohamed Salim (Civil Engineer)

Husbands Name: Dr. H. Umar Nazeem (Gen. Medicine)

Marital Status: Married

Mother Tongue: Tamil

Languages Known:

To speak: English, Tamil, Hindi and Malayalam

To read & write: English, Tamil, Hindi & Arabic

Nationality: Indian

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