

Dr. H. SYED JAHANGIR, M.Sc., M.Phil., Ph.D.
Associate Professor
Department of Botany
Jamal Mohamed College (Autonomous)
Tiruchirappalli- 620 020
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Education

| Degree | Subject | Research Supervisor/ Institution/ University | Month & Year of Passing |
|---------|---|--|-------------------------|
| Ph.D. | Botany (Specialization- Microbiology) | Dr. N. Thajuddin, Professor & Head, Department of Microbiology, Bharathidasan University, Tiruchirappalli-620 024. Thesis title: Isolation, Characterization and Biotechnological potentials of Actinobacteria from Kolli hills, Tamil Nadu, India | August, 2009 |
| M.Phil. | Botany | Dr. V. Narmatha Bai, Professor & Head, Department of Botany, Bharathiyar University, Coimbatore- 641 046. Project title: <i>In vitro studies in Acacia holosericea</i> A. Cunn. Exq. Don | March, 1992 |
| M.Sc. | Botany | Dr. A. Khaleel Ahamed, Associate Professor, Department of Botany, Jamal Mohamed College, Tiruchirappalli- 620 020. | April, 1990 |
| B.Sc. | Botany | Dr. M. H. Muhammad Ilyas, Associate Professor, Department of Botany, Jamal Mohamed College, Tiruchirappalli-620 020. | April, 1987 |

Professional Experience

| Institution | Designation | Period | |
|--|---------------------|------------|------------|
| | | From | To |
| Department of Botany, Jamal Mohamed College, Tiruchirappalli | Associate Professor | 03.01.2013 | Till date |
| Department of Botany, Jamal Mohamed College, Tiruchirappalli | Lecturer (SG) | 03.01.2010 | 03.01.2013 |
| Department of Botany, Jamal Mohamed College, Tiruchirappalli | Lecturer (SS) | 03.01.2005 | 03.01.2010 |
| Department of Botany, Jamal Mohamed College, Tiruchirappalli | Lecturer | 03.01.2000 | 03.01.2005 |
| Department of Botany & Microbiology, Jamal Mohamed College, Tiruchirappalli | Lecturer | 11.09.1998 | 02.01.2000 |
| Department of Microbiology, MIET Arts College, Tiruchirappalli | Lecturer & Head | 05.01.1994 | 10.09.1998 |

Orientation / Refresher Course attended

| | |
|---|--|
| 1. UGC sponsored orientation course (20.05.2000 to 16.06.2000). | UGC Academic Staff College, Bharathidasan University, Tiruchirappalli. |
| 2. UGC sponsored Refresher course in Microbiology (01.11.2004 to 21.11.2004) | UGC Academic Staff College, Bharathidasan University, Tiruchirappalli. |
| 3. UGC sponsored special summer school – 2008 in Biosciences (22.07.2008 to 11.08.2008) | UGC Academic Staff College, Bharathidasan University, Tiruchirappalli. |
| 4. UGC sponsored refresher course in Life Sciences (04.02.2010 to 24.02.2010) | UGC Academic Staff College, University of Madras, Chennai. |

Area(s) of specialization

Soil Actinobacteria, Diversity, Molecular Taxonomy

Subject(s) of Interest

Microbiology & Biotechnology

Research Guidance

| Degree | Degree Awarded | Guiding |
|--------|----------------|---------|
| M.Phil | 21 | 2 |
| Ph.D. | | 1 |

Publications

1. Syed Jahangir, H., D. Fairoz Shirin Sulthana and N. Thajuddin (2006). Optimization of Chicken – Barbs degrading *Streptomyces* sp. In: *Proceedings of the National Symposium on Recent Trends in Microbial Biotechnology* (Eds.) R. Balagurunathan and M. Radhakrishnan, Sri Sankara Arts & Science College, Kanchipuram 71 – 79.
2. Nazeerullah R., Muftah Zarmouh, Syed Jahangir, H., Thajuddin, N., 2009. Bacteriological studies on pathogenic microorganisms of blood, sputum, wound and corneal samples from Indian patients. *JASMR*, 4(1), 33-40.
3. Syed Jahangir, H., Nazeerullah, R., 2011. Screening of Antimicrobial Activity of Selected Medicinal Plants *Cassia surattensis* Burm.f and *Rhinacanthus nasutus* (L.) Kure. *Indian J. Nat. Sci.* 11, 588-599.
4. Abirami, H., Muhammad Ilyas, M.H., Syed Jahangir, H., Prem Kumar, K., Nargis Begum, T., 2013. *Azima tetraantha*: a treasure to be hunted. *Internat. J. Rec. Sci. Res.* 4(5), 597–602.
5. Shilu Mathew, Muhammad Faheem, Govindaraju Archunan, Muhammad Iyas, Nargis Begum, Syed Jahangir, Ishtiaq Qadri⁶, Mohammad Al Qahtani and Shiny Mathew (2014) *In Silico* Studies of Medicinal Compounds Against Hepatitis C Capsid Protein from North India. *Bioinform Biol Insights.* 8:159–168
6. Shilu Mathew, Ashraf Ali, Hany Abdel-Hafiz, Kaneez Fatima, Mohd Suhail, Govindaraju Archunan, Nargis Begum, Syed Jahangir, Muhammad Ilyas, Adeel G.A. Chaudhary, Mohammad Al Qahtani, Salem Mohamad Bazarah, Ishtiaq Qadri (2014)

Paper presented in Seminar / Conference

1. Second International Symposium on Translational Research on Natural Products & Cancer. Lonavala, Mumbai, India 9 – 12, December, 2007. Riyasdeen, A., V.S. Periyasamy, C. Preethy Paul, H.S. Jahangir, N. Thajuddin, S. Srinag, H. Krishnamurthy, and M.A. Akbarsha (2007) Noval *Streptomyces* extracts as apoptosis inducers in cancer cell lines.
2. National Symposium on Microalgal Biotechnology, Bharathidasan University, Tiruchirappalli, March, 11-13, 2004, Prabhu, S., Selvakumar, S., Nagasathya, A., Syed Jahangir, H. and Thajuddin, N. - Marine and Hypersaline diatoms from Palk Bay region, Tamil Nadu.
3. UGC Sponsored Regional Seminar on “Recent Trends in Biotechnology and its role in Utilization of Biodiversity”. Organized by PG & Research Department of Botany, Jamal Mohamed College, Tiruchirappalli- 620 020. March 5 - 6, 2007. Nazeerulla, R., Syed Jahangir, H. and N. Thajuddin - Biodegradation of brilliant green and textile dye effluent by bacterial consortia.
4. National conference on “Bioprospecting of Marine Resources with special reference to Marine Natural Products and Drug Discovery” organized by Oceanography and coastal area studies, Alagappa University, Karaikudi during April 26 – 28, 2007. Nazeerullah, R., G. Balakrishnan, H. Syed Jahangir and N. Thajuddin - Studies on Bacteriorhodopsin in UV - induced *Hallobacterium salinarium*
5. National Symposium on Microbial Biodiversity, Bioremediation and Biotechnology, jointly organized by the Department of Microbiology & Biotechnology, Bharathidasan University & the Department of Microbiology & Biotechnology, Cauvery College for Women, Tiruchirappalli during 28 & 29 August 2008. Nandhini Devi, S., Syed Jahangir, H. and Thajuddin, N. Biodegradation of carbofuran (insecticide) by soil dwelling actinomycetes.
6. National Seminar on “Role of Microbes in Health, Agriculture and Industry” organized by the Department of Biotechnology, Alagappa University, Karaikudi – 630 003 on March 26 – 27, 2012. Syed Jahangir, H., Gheetha, T. and N. Thajuddin. Soil actinobacteria induced biotransformation of butachlor (Herbicide).
7. Tamilkumar, T., Syed Jahangir, H. Screening of phytochemical analysis and antimicrobial activity of *Indigofera aspalathoides* Vahl. State level seminar on “Emerging Advancements in Biosciences” organized by Department of Microbiology & Biotechnology, Jamal Mohamed College, Tiruchirappalli- 620 020 on March 17, 2012.
8. Syed Jahangir, H. *In vitro* culture response of *Acacia holosenea*. National seminar on Biodiversity: Strategies for Conservation and Future Challenges conducted by Department of Botany, Bharathiyar University, Tiruchirappalli-641 046 on 16 & 17 October 1993.

Special Mention

Deposited two bacterial cultures namely *Legionella jamestowniensis* and *Stenotrophomonas maltophilia* in **Microbial Type Culture Collection, Chandigarh**, with the accession numbers of **MTCC 9474** and **MTCC 9701**.

GenBank Submissions

| S. No | Accession No | Culture Detail | Sequencing Detail | Reference |
|-------|--------------|---|---------------------------|---|
| 1 | FJ939130.1 | <i>Streptomyces</i> sp. JMCNT76 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 2 | FJ939129.1 | <i>Streptomyces</i> sp. JMCNT25 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 3 | GU186911.1 | <i>Frankia</i> sp. NTA03 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 4 | GU186912.1 | <i>Frankia</i> sp. NTA04 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 5 | GU186908.1 | <i>Frankia</i> sp. NTA05 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 6 | EU583791.1 | <i>Streptomyces</i> sp. JMCNT09 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 7 | KF758462 | <i>Bacillus subtilis</i> JMCA1 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 8 | KF758463 | <i>Paenibacillus</i> sp JMCA2 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 9 | KF758464 | <i>Bacillus</i> sp JMCA3 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 10 | KF758465 | <i>Brevibacillus</i> sp JMCA4 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 11 | KF758466 | <i>Bacillus niacini</i> JMCA1 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 12 | KF758467 | <i>Brevibacillus</i> sp JMCA2 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 13 | KM019199 | <i>Sphingobacterium thalpophilum</i> AS34 | 16s rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 14 | KM019198 | <i>Enterobacter aerogenes</i> AS75 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 15 | KM019197 | <i>Pseudomonas aeruginosa</i> AS31 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 16 | KM019196 | <i>Bacillus pumilus</i> AS02 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 17 | KJ818244.1 | <i>Streptomyces</i> sp. JMCACA1 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 18 | KJ818246.1 | <i>Streptomyces</i> sp. JMCACA2 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 19 | KJ818245.1 | <i>Streptomyces</i> sp. JMCACA3 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 20 | KJ818247.1 | <i>Bacillus subtilis</i> JMCACB1 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |
| 21 | KJ818248.1 | <i>Brevibacillus</i> sp. JMCACB2 | 16S rRNA gene sequence | http://www.ncbi.nlm.nih.gov/ |

| Seminar / Conference / Symposia / Workshop attended | | | |
|---|---|---|--|
| Name of the Seminar/ Conference/ Workshop, etc. | Name of the sponsoring agency | Place and Date | |
| Recent trends in Molecular Genetics | UGC Sponsored state level seminar | Jamal Mohamed College, Tiruchirappalli. 29.03.2000 to 31.03.2000 | |
| Workshop on Modern Techniques in Microbiology | AVVM Sri Pushpam College, Poondi and Bangalore Genei Pvt. Ltd., Bangalore. | AVVM Sri Pushpam College, Poondi. 29.09.2000 to 30.09.2000 | |
| National Seminar on Atomic Energy, Ecology and Environment | BRNS/ Dept. of Atomic Energy and Atomic Energy Regulatory Board, Govt. of India. | Jamal Mohamed College, Tiruchirappalli. 08.02.2001 to 09.02.2001 | |
| National Symposium on Microalgal Biotechnology | DBT, Govt. of India. | NFMC, Bharathidasan University, Tiruchirappalli. 11.03.2004 to 13.03.2004. | |
| Current concepts in Biological Research | Bharathidasan University, Tiruchirappalli | Bharathidasan University, Tiruchirappalli. 27.02.2004 to 28.02.2004 | |
| Recent Trends in Microbial Biotechnology | DST, New Delhi | Dept. of Microbiology, Sri Sankara Arts and Science, Kanchipuram. 29.12.2005 to 30.12.2005. | |
| Curriculum Development and Evaluation | TANSCHE and UGC | Jamal Mohamed College, Tiruchirappalli. 02.03.2006 to 04.03.2006. | |
| Advanced Techniques in Biotechnology | Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam and DRDO, New Delhi. | Bannari Amman Institute of Technology, Sathyamangalam. 27.07.2006 to 30.07.2006 | |
| Recent Trends in Biotechnology and its role in Utilization of Biodiversity | UGC, New Delhi | Jamal Mohamed College, Tiruchirappalli. 05.03.2007 to 06.03.2007 | |
| Recent Trends in HPLC Techniques | Department of Pharmaceutical Engg. and Tech., Anna University, Tiruchirappalli. | Anna University, Tiruchirappalli. 29.03.2007 to 30.03.2007 | |
| Training workshop on Isolation and Identification of Marine Actinobacteria | UGC-SAP, New Delhi | Centre of Advanced Study in Marine Biology, Parangipettai, Annamalai University. 04.03.2008 to 06.03.2008. | |
| One Day Seminar on "Radiation and Human Welfare" | Department of Zoology, Jamal Mohamed College, Tiruchirappalli | Department of Zoology, Jamal Mohamed College, Tiruchirappalli-620 020 26.03.2010 | |
| NAAC sponsored National Level Seminar on "Quality Enhancement in Teaching Research and Extension in | NAAC, UGC, New Delhi | Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli-620 020 | |

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| Higher Education Institutions-Prospects and Problems” | | 15.04.2010 to 16.04.2010 |
| National Level Forum on “Emerging Debates on Communicable Disease” (EDCD) | Department of Microbiology, Jamal Mohamed College, Tiruchirappalli | Department of Microbiology, Jamal Mohamed College, Tiruchirappalli-620 020. 28.02.2011. |
| UGC and DST sponsored National seminar on the role of microbes in health, agriculture and industry | UGC and DST, New Delhi | Department of Biotechnology, Alagappa University, Karaikudi 26.03.2012 to 27.03.2012 |
| Science Academies Lecture workshop on “Thrust Areas in Life Sciences” | Indian Academy of Science, Bangalore; Indian National Science Academy, New Delhi; The National Academy of Sciences India, Allahabad, India | Department of Biotechnology, Cauvery College for Women, Tiruchirappalli. 31.01.2013 to 02.02.2013 |
| National Conference on “Current Challenges in Environment” | AEACI, Mumbai. | P.G. & Research Department of Zoology, Jamal Mohamed College, Tiruchirappalli. 07.03.2013 to 08.03.2013 |
| National seminar on Microbes and Human Welfare | National Academy of Biological Sciences, Allahabad, India | Department of Microbiology, Bharathidasan University, Tiruchirappalli. 20.07.2013 to 21.07.2013 |
| Science Academies Lecture workshop on “Recent Trends in Biology and Biotechnology | Indian Academy of Science, Bangalore; Indian National Science Academy, New Delhi; The National Academy of Sciences India, Allahabad, India | P.G & Research Department of Biotechnology, Jamal Mohamed College, Tiruchirappalli. 29.01.2014 to 31.01.2014 |
| National Conference on “Progress in the Indian Context” | Department of Microbiology, Bharathidasan University, Tiruchirappalli; Krishnamurthy Institute of Algology, Chennai. | Department of Microbiology, Bharathidasan University, Tiruchirappalli. 19.09.2014 to 21.09.2014 |

Resource Person/Chair in Conferences/ Seminars/Symposia

- Acted as Chair person National Conference on “New Opportunities and Challenges in Microbial Research” during 5th and 6th September, 2013. Department of Microbiology, Bharathidasan University, Tiruchirappalli-620 020.
- Acted as Convener for the Technical Session- 'Microbes in Agriculture and Forestry' of the National Seminar on 'Microbes and Human Welfare' organized in collaboration with Department of Microbiology, Bharathidasan University, Tiruchirappalli-620 020.
- Acted as Reporter in DBT (Govt. of India) sponsored Short Term Hands-on Training Course on “Basic Techniques in Plant Molecular Biology (for College Teachers)” during 18th April to 3rd May 2011 organized by Plant Molecular Biology Laboratory, Department of Botany, Jamal Mohamed College, Tiruchirappalli-620 020.

Symposia / Refresher Course/ Summer School/ Workshops Organized

- State level seminar on “Emerging Advancements in Biosciences Organized by P.G. Department of Microbiology, Jamal Mohamed College, Tiruchirappalli. 20.03.2012
- Convener, National seminar on “Recent Trends in Life Sciences” Organized by P.G. & Research Department of Biotechnology, Jamal Mohamed College, Tiruchirappalli, 25.02. 2015

Acted as Reviewer in international Journals

- Indian Journal of Natural Sciences
- African Journal of Pharmacy and Pharmacology

Membership in Professional Societies

- Indian Journal of Natural Sciences (International bimonthly–ISSN: 0976-0997)

Prizes, Medals and Other Honors received

- Best Paper Award for Optimization of Chicken feather -barbs Degrading *Streptomyces* sp. proceedings of the National symposium on Recent trends in Microbial biotechnology” organized by Dept. of Microbiology, Sri Sankara Arts and Science, Kanchipuram.
- Nazeerullah, R., Syed Jahangir, H. and N. Thajuddin, N. Biodegradation of malachite green by indigenous soil bacteria and comparative studies with *Pseudomonas aeruginosa*. 5th National Conference of Indian Association of Applied Microbiologists (IAAM) on *Emerging Trends and evolving Technologies in Applied Microbiology with Special Reference to Microbial Nanotechnology*. Sri Sankara Arts & Science College, Kanchipuram – 631 561 during January 11 – 12, 2007
- Nandhini Devi, S., Syed Jahangir, H. and Thajuddin, N. Biodegradation of carbofuran (insecticide) by soil dwelling actinomycetes. National Symposium on Microbial Biodiversity, Bioremediation and Biotechnology, jointly organized by the Department of Microbiology & Biotechnology, Bharathidasan University & the Department of Microbiology & Biotechnology, Cauvery College for Women, Tiruchirappalli during 28 & 29 August 2008.

Other Academic Activities

- Member, Board of Studies Microbiology, (UG & PG) (1996-1998) Bharathidasan University, Tiruchirappalli – 24.
- Member, Board & Studies in Microbiology, (1998) AVC College, Mannampandal, Mayiladuturai.
- Board of studies memner for B.Sc., M.Sc. and M.Phil (Botany) courses in Jamal Mohamed College, Trichy

Other responsibilities

- Student Grievances Cell member
- Student Welfare Committee member