



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution

Tiruchirappalli - 620 002

Name : Dr. R. Thenmozhi

Designation : Assistant Professor

Department : PG & Research Department of Microbiology

Qualification : M.Sc., Ph.D. PDF (UGC-DSKPDF, SERB Young Scientist Award)

Experience : Teaching: 2 years Research: 12 years

Area of Specialization(s) : Microbial Biofilms

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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
B.Sc.,		Bharathidasan University	2001
M.Sc.,	Microbiology	Madurai Kamaraj University	2003
Ph.D.	Biotechnology	Alagappa University	2011
Postdoctoral Fellow	Microbiology	Bharathidasan University	2011-2013, 2015-2018

Research Publications (Indexed)

International

1. Comparative analysis of *emm* types, superantigen gene profiles and antibiotic resistance genes among *Streptococcus pyogenes* isolates from ocular infections, pharyngitis and asymptomatic children in south India (2013) Balaji K, [Thenmozhi R](#), Prajna L, Dhananjeyan G & Pandian SK *Infect Genet Evol.* 19 105-12.
2. Emergence of methicillin-resistant, vancomycin-intermediate *Staphylococcus aureus* among patients associated with group A Streptococcal pharyngitis infection in southern India (2013) Gowrishankar S, [Thenmozhi R](#), Balaji K and Pandian SK *Infect Genet Evol.* 14 383-389.
3. Virulence and multidrug resistance pattern of *Vibrio cholerae* O1 isolates from diarrhoeal outbreaks of South India during 2006-2009 (2013) Balaji K, Okonjo PA, [Thenmozhi R](#) & Pandian SK *Microb Drug Resist.* 19 198-203.
4. Comparison of bacterial communities in the throat swabs from healthy subjects and pharyngitis patients by Terminal Restriction Fragment Length Polymorphism (2012) Balaji K, [Thenmozhi R](#), Sundaravadivel M & Pandian SK *Appl Biochem Biotechnol.* 167 1459–1473.
5. Characterization of biofilms in different clinical M serotypes of *Streptococcus pyogenes* (2011) [Thenmozhi R](#), Balaji K, Rajesh K, Subba Rao T & Pandian SK *J Basic Microbiol.* 51 1-9.
6. Development of species-specific primers for detection of *Streptococcus pyogenes* from throat swabs (2010) [Thenmozhi R](#), Balaji K, Kanagavel M & Pandian SK *FEMS Microbiol Lett.* 306 110-116.
7. Inhibition of *Streptococcus pyogenes* biofilm formation by coral-associated actinomycetes (2010) Nithyanand P, Thenmozhi R, Rathna J, Pandian SK. *Curr Microbiol* 60(6) 454-60.
8. Antibiofilm activity of coral associated bacteria against different clinical M serotypes of *Streptococcus pyogenes* (2009) [Thenmozhi R](#), Nithyanand P, Rathna J & Pandian SK *FEMS Immunol Med Microbiol.* 57 284-294.
9. In vitro assessment of antimicrobial, antibiofilm and larvicidal activities of bioactive nickel metal organic framework (2020) Prabhu R, [Thenmozhi R](#), Thajuddin N, Suganthi N *J Drug Delivery Science & Technology* 56 Part A 101560.
10. Polyherbal drug loaded starch nanoparticles as promising drug delivery system: Antimicrobial, antibiofilm and neuroprotective studies (2020) Prakashkumar N, [Thenmozhi R](#), Thajuddin N, Rajasree S, Arivalagan P & Suganthi N. *Process Biochemistry* 92 355-364.

National

1. Effect of subinhibitory concentrations of fluoroquinolones on biofilm production by clinical isolates of *Streptococcus pyogenes* (2013) Balaji K, Thenmozhi R & Pandian SK *Indian J Medl Res.* **137** 963-971.

Book Publications -

1. Textbook of Microbiology
2. Dr. R. Thenmozhi, Dr. P. J. Joslin, Dr. G. Manoharan, Dr. K. Prabhu ISBN: 978-93-91387-93-8, AGAR Publications.
3. Published a book chapter in *Phytomedicine Innovations: The Future of Plant – Based*
4. *Therapies*
5. titled “*Anacardium occidentale* (Cashew) as Phytomedicine” ISBN: 978-81-977907-4-4, Chapter – 9, Page: 133-140.
6. Published a book chapter in *Medicinal Chemistry and Applied Microbiology* titled “Food borne pathogens and its pathophysiology” ISBN: 978-81-966183-3-9

Presentations in Conference

1. Participated & presented a paper on “Screening of natural compound for antibiofilm activity against biofilm forming MRSA Strains. International Conference on “Inspiring Microbiome for the Future Generation” (IMFG -2024) Organized by PG & Research Department of Microbiology, STET in association with Microbiologists Society, India and IQAC on 26th & 27th February 2024.
2. Published a paper on “Cervical cancer: Epidemiology, Risk Factors and Screening” in the International conference on Interdisciplinary Approaches in Biological Sciences for Innovative Research” (ISBN No.978-93-94638-45-7) Organized by the PG & Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on 27.08. 2024.
3. Participated and presented a paper entitled Risk factors associated with Coronary Heart Disease in Women, organized by the Department of Biochemistry, ICSSR - New Delhi Sponsored, One day National Seminar on “Impact of Non- Communicable Disease in India, on 11.10.2023 at Shrimati Indira Gandhi College, Trichy.
4. Presented a paper titled “Role of NiO and Ag doped NiO against biofilm forming Methicillin Resistant *Staphylococcus aureus* (MRSA) strains” in a international conference jointly organized by Vinayaka Missions Research Foundation and Gyeongsang National University

on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications held on 1st and 2nd October 2023.

5. Presented a paper titled “M protein typing of Indian group A Streptococcal isolates by PCR-Restriction fragment length polymorphism analysis” in 77th Annual Meeting of Society of Biological Chemists (India) on December 18-20, 2008 at Indian Institute of Technology, Chennai.
6. Presented a paper on “Screening and Molecular Identification of Group A Streptococcus Causing Rheumatic Fever in School Children” in 30th Indian Social Science Congress during December 27-31, 2006 at Alagappa University, Karaikudi.
7. Presented a paper entitled “Biodecolourization of dye industry effluent by *Streptomyces* sp. isolated from dye amended soil” in the International Symposium on Recent Advances in Biological Sciences at K. S. R. Centre for Biological Sciences, Tiruchengode during October 11-12, 2001. **(Won Best Presentation award)**
8. Presented a paper at the National Level Seminar on “Current Trends and Future Directions in Life Science” at Muthayammal College of Arts and Science, Rasipuram on January 4th and 5th, 2002. **(Won Best Presentation award)**

POSTERS PRESENTED

1. posters were presented at the 49th Annual Conference of Association of Microbiologists of India from 18-20 November, 2008 at University of Delhi.
2. Two a). Molecular Identification of the Virulent Genes (*prtF1* and *prtF2*) in Group A Streptococci isolated from Indian children with pharyngitis.
b) Understanding the *Streptococcus pyogenes* mediated infectious process using the model organism, *Caenorhabditis elegans*.

Participation in Conference

National:

1. Symposium on “Biotechnology at the Turn of the Millennium” held at Chennai on February 4th and 5th, 2002.
2. Participated & presented a paper entitled “Risk factors associated with coronary Heart Disease in women”, Department of Biochemistry, ICSSR – New Delhi Sponsored, One day National Seminar on “Impact of Non- Communicable Disease in India, on 11.10.2023 at Shrimati Indira

Gandhi College, Trichy.

Participation in Seminars

1. Participated in one day National Level Faculty Improvement Programme on “Improving Metacognitive Skills for Teachers in HEIs” on 5th October 2023, organized by A.C.T. Academy, Tamilnadu.
2. Participated in two day National Level FIP on “ Teaching Methodologies and Collaborative Teaching Tools” on 29 & 30 September 2023, organized by A.C.T. Academy, Tamilnadu.
3. Participated in two day National Level SDP cum Lecture Workshop on “Insights and Recent Trends in Virology” on 18 & 19 September 2023, organized by A.C.T. Academy, Tamilnadu.
4. State Level Intercollegiate PG Seminar on “Recent Advances in Microbiology and Biotechnology” at Lady Doak College, Madurai on 7th and 8th September 2001.
5. National Seminar on “Microbes in Peace and War” at Sengunthar Institute of Post Graduate Study and Research in Microbiology on 21st and 22nd February, 2002.
6. One Day Regional Seminar on “WTO AND Medicinal Bio-Technology” at Hotel Taj Retreat, Madurai on 30th September, 2002.
7. State Level Seminar on “Pollution-A Death Knell to the Environment” at R.D.G.A. College Sivagangai, on 21st and 22nd January 2002 and presented a paper on “Bacteriological Survey of Meat from Slaughter House in and around Madurai”.
8. Participated in the Intercollegiate Students Seminar on “Microbes and Environment” at Thiagarajar College, Madurai on 19th February 2003.
9. National Level Seminar On Special Lectures In Biosciences at Bharathidasan University, Trichy from 31st March to 1st April 2004.
10. Participated in the International Workshop cum Seminar on “Advances in Modern Biotechnology and Molecular Techniques in Veterinary Parasitology: Diagnosis, Chemotherapy and Control” at Alagappa University during March 17-21, 2008

Participation in Workshop

1. Participated in Two Days National Level Workshop cum Training on “Molecular Docking Procedure” conducted by FDP Division A.C.T. Academy on 15.12.2023 & 16.12.2023.
2. Participated in Hands-on training National workshop on “Methods in cell culture and *In vitro* Toxicology” at National Centre for Alternatives to Animal Experiments (NCAAE),

Bharathidasan University, Tiruchirappalli on December 13-19th, 2017.

3. Acquired Training Course in “Molecular Genetic Methods in Diabetic Retinopathy” at Aravind Medical Research Foundation, Madurai during 4th to 14th February, 2008.
4. Induction Training Programme in Environmental Engineering at Periyar Maniammai College of Technology for Women, Vallam-Thanjavur between 1.6.2004. to 11.6.2004.
5. State Level Workshop on the State-of-The-Art Techniques I-n Agricultural Microbiology at A.V.V.M. Sri Pushpam College Thanjavur District, between 4-6 October 2002.
6. Two days workshop on Medical Laboratory Technology conducted by Seahorse Hospitals Ltd., Trichy on 15th and 16th July 2000.

Participation in Orientation Programme / Short Term Courses

Attended the Naan Mudhalvan – A Massive up skilling programme conducted by Tamil Nadu Government (TNSDC) at Bharathidasan University on 8.1.2024 to 12.1.2024.

Participation in Faculty Development Programme

1. Participated in the Five-day International Virtual Faculty Development Programme on “Recent trends in Biological sciences” – (RTBS 2023) organized by the Department of Botany, Seethalakshmi Ramasamy College from 16.10.2023 to 20.10.2023.
2. Participated in the Six-day International Virtual Faculty Development Programme on “Biotechnology for Entrepreneurship and Startup” organized by the Department of Biotechnology & IIC, Bon Secours College for Women from 20.11.2023 to 25.11.2023.
3. Participated in the Five - Day Virtual Faculty Development Programme on “Recent Advances in chemical Sciences” organized by the Department of Chemistry. KSR college of Arts and Science for Women from 27.11.2023 to 01.12.2023.
4. Participated in one day National Level Faculty Improvement Programme on “Improving Metacognitive Skills for Teachers in HEIs” on 5th October 2023, conducted by A.C.T. Academy, Tamil Nadu.
5. Participated in two-day National Level FIP on “Teaching Methodologies and Collaborative Teaching Tools” on 29 & 30 September 2023, conducted by A.C.T. Academy, Tamil Nadu.
6. Participated in two-day National Level SDP Cim Lecture Workshop on “Insights and Recent Trends in Virology” on 18 & 19 September 2023, conducted by A.C.T. Academy, Tamil Nadu.
7. Attended seven days National level Faculty Development program on “NAAC Assessment and Accreditation: procedures and processes” organized by A.C.T. Academy, Tamil Nadu with

Arasu Group of Institutions, Karur from 18.10.2023 to 24.10.2023.

8. Participated in the one-week online faculty Development Programme on Green Biotechnology and Bioenergy from 18th to 24th December 2023, organized by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai in association with Biotech Research Society, India (BRSI), India, Indian Society for Technical Education (ISTE) and Institution's Innovation Council (IIC).
9. Participated in Five days online workshop on SPSS in Research, organized by Star International Foundation for Research and Education on 26.12.2023 – 30.12.2023.
10. Participated in the six days Faculty Development Programme on “Understanding Outcome Based Education” organized by Internal Quality Assurance Cell at Shrimati Indira Gandhi College, Trichy from 10.06.2024 to 15.04.2024 & 18.06.2024.

Conference / Seminar / Workshop Organized

1. In the International Conference on Unveiling the Frontiers in Life Sciences organized by Department of Biochemistry and PG and Research Department of Microbiology, Shrimati Indira Gandhi College, Trichy on August 17th and 18th, 2023.
2. In the International Conference on “Interdisciplinary Approaches in Biological Science for Innovative Research” ICIBR-2024, organized by The PG & Research Department of Microbiology and The Department of Biotechnology of Shrimati Indira Gandhi College on 27.9.2024.

Editorial / Review Board Member

1. Acted as a Reviewer of the journal “Biocatalysis and Agricultural Biotechnology” from 06.12.2023. to 5.12.2024
2. Acted as a Reviewer of the journal “Applied Biochemistry and Biotechnology” from 08.12.2023. to 7.12.2024.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Microbiologists Society, India.	Life Member (MS/LM/1022)	

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
UGC- Research Fellowships in Sciences for Meritorious Students	UGC	2008-2010
UGC- Dr. D. S. Kothari Postdoctoral Fellowship	UGC	2011-2014
DST-SERB Young Scientist Fellowship	DST	2015-2018