



Dr. S. Gowrishankar
Assistant Professor

Contact

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Academic Qualifications:

| Degree | Year of Passing | Subject | Class | Institution |
|---------------------|-----------------|---|------------------------------|---|
| B. Sc., | April 2007 | Microbiology | First class | Kongu College of Arts & Science, Karur – 639 006 (Affiliated to Bharathidasan University) |
| M. Sc., | May 2009 | Microbiology | First class with distinction | Bharathidasan University, Tiruchirappalli 620 024 |
| Post M.Sc., Diploma | June 2010 | Adv Dip in Molecular Diagnostics (ADMD) | First class with distinction | Department of Biotechnology, Alagappa University, Karaikudi |
| Ph. D. | December 2016 | Biotechnology | | Department of Biotechnology, Alagappa University, Karaikudi |

Teaching Experience: Since January 30, 2016

Research Experience: Since October 11, 2010

Areas of Research

1. Molecular characterization of methicillin resistant- *Staphylococcus aureus* with special emphasis on biofilm formation.
2. Pathogenesis of biofilm forming Gram-positive pathogens and alternative strategies to combat their infections.

Publications

| International | | National | | Others |
|---------------|-------------|----------|-------------|---|
| Journals | Conferences | Journals | Conferences | Books / Chapters / Monographs / Manuals |
| 07 | 16 | -- | 03 | -- |

Cumulative Impact Factor (as per JCR) : 22.83 (Average IF = 3.27)
h-index : 03
i10 index : 03
Total Citations : 64

Achievements / Awards

- 1) 2008 **State Eligibility Test** for Lectureship (**SET**) in Life sciences.
- 2) 2009 Awarded **Studentship** (Rs. 5000 per month for one year) by the Department of Biotechnology (DBT), Government of India for the Post M.Sc., Advanced Diploma in Molecular Diagnostics Programme (July 2009 to June 2010).
- 3) 2011-16 University Grants Commission-**Rajiv Gandhi National Fellowship**
- 4) 2012 **Second prize for poster presentation** in the International Conference on "Regulatory Network Architecture in Bacteria" held during March 9th - 11th, 2012 at Sastra University, Thanjavur, India.
- 5) 2013 **Best poster and cash award** in the "National Seminar on Microbes in Health, Agriculture and Industry" held during February 27th -March 1st, 2013 at Department of Biotechnology, Alagappa University, Karaikudi, India.

- 6) 2014 **First prize for oral presentation** in the National Conference on “Bioactive Peptides-Application in Veterinary, Medical and Food Sciences” held during December 18th - 19th, 2014 at Department of Animal Biotechnology, Madras Veterinary College, Chennai, India.
- 7) 2015 **International Travel Awards** from
1. **Indian Council of Medical Research (ICMR)**
 2. **Centre for International Co-operation in Science (CICS)**
- (To attend the 25th European Congress of Clinical Microbiology and Infectious Diseases held during April 25th -28th, 2015 at Copenhagen, Denmark).

Events Participated

Conferences / Seminars / Workshops: 08

Other Training Programs

- “ZEISS Microscopy Course” held between 21st and 23rd May, 2015 organized by Carl Zeiss India (Bangalore) Pvt. Ltd. at **IIT Madras**.

Overseas Exposure / Visits

- Visited **Copenhagen, Denmark** and presented poster in the 25th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID 2015) during 25th -28th April, 2015.

Membership in Professional Bodies

1. Life Member : Biotech Research Society of India (BRSI).
2. Life Member : Indian Initiative for Management of Antibiotic Resistance (IIMAR)

Others

Sequences submitted in

- GenBank : **19**
- Multilocus sequence typing (MLST) : **33**

Recent Publications

1. **Gowrishankar, S.,** Kamaladevi, A., Balamurugan, K., and Pandian, S.K., *In vitro* and *in vivo* biofilm characterization of community-acquired methicillin-resistant *Staphylococcus aureus* from patients associated with pharyngitis infection. **BioMed Research International** [Hindawi Publishing Corp., New York] 2016, 1-14 Article ID 1289157 [**Impact Factor: 2.134**].

2. Sivaranjani, M., **Gowrishankar, S.**, Kamaladevi, A., Pandian, S.K., Balamurugan, K., and Ravi, A.V., 2016. Morin inhibits biofilm production and reduces the virulence of *Listeria monocytogenes*- An *in vitro* and *in vivo* approach. ***International Journal of Food Microbiology*** [Elsevier, The Netherlands] 237, 73-82 [**Impact Factor: 3.445**].
3. **Gowrishankar, S.**, Sivaranjani, M., Kamaladevi, A., Ravi, A.V., Balamurugan, K., Pandian, S.K., 2016. Cyclic dipeptide cyclo(L-leucyl-L-prolyl) from marine *Bacillus amyloliquefaciens* mitigates biofilm formation and virulence in *Listeria monocytogenes*. ***Pathogens and Disease*** [FEMS, Oxford University Press, USA] 74, 4, 49-60. [**Impact Factor: 2.483**].
4. **Gowrishankar, S.**, Kamaladevi, A., Ayyanar, K.S., Balamurugan, K., Pandian, S.K., 2015. *Bacillus amyloliquefaciens*-secreted cyclic dipeptide – cyclo(L-leucyl- L-prolyl) inhibits biofilm and virulence production in methicillin-resistant *Staphylococcus aureus*. ***RSC Advances*** [Royal Society of Chemistry, England] 5, 95788-95804. [**Impact Factor: 3.840**].
5. **Gowrishankar, S.**, Poornima, B., Pandian, S.K., 2014. Inhibitory efficacy of cyclo(L-leucyl-L-prolyl) from mangrove rhizosphere bacterium-*Bacillus amyloliquefaciens* (MMS-50) toward cariogenic properties of *Streptococcus mutans*. ***Research in Microbiology*** [Elsevier, New York, USA] 165, 278-289. [**Impact Factor: 2.889**].
6. **Gowrishankar, S.**, Thenmozhi, R., Balaji, K., Pandian, S.K., 2013. Emergence of methicillin-resistant, vancomycin-intermediate *Staphylococcus aureus* among patients associated with group A Streptococcal pharyngitis infection in southern India. ***Infection, Genetics and Evolution*** [Elsevier, New York, USA] 14, 383-389 [**Impact Factor: 3.264**].
7. **Gowrishankar, S.**, Mosioma, N.D., and Pandian, S.K., 2012, Coral-associated bacteria as a promising antibiofilm agent against methicillin-resistant and -susceptible *Staphylococcus aureus* biofilms. ***Evidence-Based Complementary and Alternative Medicine*** [Hindawi Publishing Corp., New York] 2012, 862374 doi:10.1155/2012/862374 [**Impact Factor: 4.774**].
8. **Gowrishankar, S.**, and Pandian, SK., 2012, Inhibitory effect of coral-associated bacterial extracts on methicillin-resistant and susceptible *Staphylococcus aureus* biofilms. ***Clinical Microbiology and Infection*** 18(S3): R2416 [Wiley, Paris] DOI: 10.1111/j.1469-0691.2012.03803.x [**Impact Factor 5.768**].
9. Pandian, S.K., and **Gowrishankar, S.**, 2012, Molecular characterization of methicillin-resistant *Staphylococcus aureus* with emergence of epidemic clone of sequence type (ST) 772 and novel ST 2129 in southern India. ***Clinical Microbiology and Infection*** 18(S3): R2531 [Wiley, Paris] DOI: 10.1111/j.1469-0691.2012.03803.x [**Impact Factor 5.768**].