CURRICULUM VITAE

**Dr. Triveni A G MSc, PhD**



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# Objective

To be a committed part of an organization that provides me an opportunity to apply academic knowledge, experience and accomplishments that will contribute to the success of the organization**.**

# Academic Qualification

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| --- | --- | --- | --- | --- |
| **Sl. no** | **Qualification** | **Year of passing** | **Institution/University** | **Percentage (%)** |
| 1 | PhD in Microbiology | 2017 | Gulbarga University | Awarded |
| 2 | MSc (Microbiology) | 2007 | Bangalore University | 70.1 - Distinction |
| 3 | BSc (Chemistry, Botany, Biotechnology) | 2005 | Bangalore University | 68.83 - First class |

***Professional Details***

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| **Sl. no** | **Job role** | **Institution** | **Year** |
| **1** | Assistant Professor | M S Ramaiah College of Arts Science and Commerce | Nov-2020 to  till date |
| **2** | Senior Research Fellow | Indian Council of Agriculture Research-Indian Veterinary Research  Institute-Project directorate of Foot and Mouth Disease, Bangalore | 2020 |
| **3** | Research Associate | Manipal Academy of Higher Education | 2020 |
| **4** | Senior Research Fellow | Indian Council of Agriculture Research-National Institute  Veterinary and Disease Informatics Research Institute | 2018 |
| **5** | Senior faculty of Biology  ( National Eligibility Cum Entrance Test) | Deeksha-Sri Venkateshwara College Bangalore | 2017 |

***Certified Computer Assisted Drug Design Course from Birla Institute of Scientific Research Jaipur, India.***

# Thesis highlights

**Research guide:** Prof. Subhashchandra M Gaddad, Dept. of Microbiology, Gulbarga University, Gulbarga, India.

**Title**: “Evaluation of Staphylococcal biofilm inhibiting molecules from medicinal plants”.

## Materials and methodology:

Highly virulent, MDR & XDR strains of Staphylococcal isolates were screened from various clinical samples such as pus, blood, urine, body fluids, patients suffering from endocarditits and osteomyelitis. The samples were collected from different locations of India. Phenotypic and molecular typing aids were used to identify the samples. Staphylococci isolates were tested for antibiotic susceptibility patterns according to CLSI guidelines. The most virulent MDR and XDR isolates were screened for their ability to form biofilms. The most potent biofilm producers were screened for *ica* ADBC genes. Extractions of selected medicinal plants were made using maceration method using polar and non polar solvents. Extracts were dissolved in DMSO and were screened for their *in vitro* antibiofilm and antibacterial ability against Staphylococcus strains. The extracts showing potent biofilm inhibition activity in the initial screening method were further subjected to separate fractions by column chromatography. Fractions obtained were retested for their antibacterial and antibiofilm activity. Fractions showing positive results were subjected to TLC, GC-MS, NMR etc., for characterization of the compound.

## Research outcome:

Plants are rich repository in a wide variety of secondary metabolites such as terpenoids, flavonoids, tannins, alkaloids, and saponins. Medicinal plant extracts have been found to have in vitro antibiofilm and antimicrobial properties. This particular aspect prompted us to take up the challenge to check the effect of medicinal plants on Staphylococcal biofilms. Hence working in this perspective will definitely enhance the treatment of *Staphylococcal* infections in hospital settings and reduces the mortality rates or the work may act as a candidate for designing the efficient drug for biofilm producing pathogens.

# Technical skills

* Screening of microorganisms from environment and clinical samples
* Characterization of microbial cultures & performing standard microbial techniques: Media preparation, Gram’s staining, biochemical tests.
* Antibiotic sensitivity test by BD-Phoenix automated system & Kirby Bauer disc diffusion technique according CLSI guidelines.
* Cryopreservation and maintenance of cultures.
* Molecular biology techniques: DNA isolation, SDS PAGE, Duplex and Multiplex-PCR, Gel electrophoresis, Western blotting etc.,
* Immunotechniques: Handling ELISA and Basic Cell culture techniques (BHK-cell line)
* Extraction of compounds from medicinal plants: Soxhlet and maceration method
* Phytochemical studies: Identification of bioactive compounds from medicinal plants
* Purification of compounds: Column chromatography, Thin Layer Chromatography, GC-MS
* Characterization of antibacterial & antibiofilm agents from medicinal plants against multi drug resistant bacteria.
* Instrumentations & equipments handled: Phase contrast microscope, Duplex and multiplex PCR, UV illuminator, Spectrophotometer, Gel Doc.
* Genomics Experience: Whole genome sequenced for multi drug resistant bacteria isolated from clinical samples.
* Trained in Biosafety Cabinet Level 2+ Laboratory at Indian Council of Agriculture Research, Bangalore.

# Soft skills

* MS-Office, MS-Excel, PPT.
* Excellent communication and presentation skills
* Good team player and individual thinker, multi-tasking, self-motivated, proactive, and hard-working with strong communications, networking, organizational and interpersonal skills.

# Job roles and responsibilities

* Teaching microbiology for under graduates and post graduate students of academia
* Curriculum development for under graduate students
* Mentoring project students and publishing research work
* Development of standard operating procedures-Bacteriology for veterinary sector
* Field work, transportation and collection of samples, documentation etc.,
* Data analysis of the project results.

# Achievements

* Selected for **National fellowship** sponsored from University Grants Commission
* Short listed for **Post-doctoral fellowship** from University Grants Commission, held at New Delhi, India & Newcastle University, Newcastle upon Tyne, United Kingdom.
* Published in International Journal, Elsevier (Microbial pathogenesis) impact factor **3.738**
* Published in International Journal of Infectious diseases in developing countries (JIDC) impact factor **1.353**
* Published 1 **book chapter** in Immortal Publications on ***Phyllanthus niruri***
* **Publications:** **06, Book Chapter:01** National and International Webinars and conferences attended: **20**
* Qualified **Karnataka State Eligibility for Lectureship/Assistant Professorship** in 2018.

# Personal Details

Full Name: Triveni Allasthimmanahalli Gangadhara English

# List of Publications

Date of Birth: 29.09.1984

Nationality: India

Languages known:

1. **Triveni AG**, Suresh Kumar M, Manjunath C, Shivannavar CT, Gaddad SM (2018) Biofilm formation by clinically isolated Staphylococcus Aureus from India. J Infect Dev Ctries 12:1062-1066*.*(**Impact 1.353**)
2. Suresh Kumar Mendem, **Triveni Alasthimannahalli Gangadhara**, Channappa T. Shivannavar, Subhaschandra M. Gaddad, (2016). Antibiotic resistance patterns of *Staphylococcus aureus*: A multi-center study from India *Microbial Pathogenesis* 98: 167-170. (**Impact factor:3.738**)
3. **A G Triveni**, Suresh Kumar Mendem, C T Shivannavar, Subhaschandra M Gaddad. (2016) Antibacterial and anti- biofilm activities of crude *Lawsonia inermis* against Methicillin Resistant *Staphylococcus aureus.Asian J Pharm Clin Res.* 9(6):1-3.
4. **A G Triveni**, Suresh kumar Mendem, C T Shivannavar, Subhaschandra M Gaddad. (2016). *Vitex negundo* leaves extracts against methicillin resistant *Staphylococcus aureus*. *Int. J. Pharm and Biol. Sciences*.6(3):55-59.
5. Suresh kumar Mendem, **AG Triveni**, CT Shivannavar, Subhaschandra M Gaddad (2016).Trends in prevalence of MRSA and VRSA in Gulbarga region. *Int. J. Pharm and Biol. Sciences.* 6(3):81- 8.
6. Ram Kumar, Vijay Kumar Sedolkar, **A. G Triveni,** Mendem Suresh Kumar, Channappa T. Shivannavar, Subhaschandra M. Gaddad.(2016). Isolation, Screening and Characterization of L-Asperaginase producing fungi from medicinal plants.*Int J Pharm Pharm Sci .*8(1):281-2

# References

1. **Dr**. **Saravanan Subramaniam** Contact Address**:** Senior Scientist, ICAR-PDFMD Hebbal, Bengaluru India, PINCODE: 560024. Email: [saranvirol@gmail.com](mailto:saranvirol@gmail.com) Phone: +91-8861735430.
2. **Dr. Vandana Rathod Professor and Chairman** Contact address: Department of PG Studies and Research in Microbiology Gulbarga University, Gulbarga. Email: [drvandanarathods@gmail.com](mailto:drvandanarathods@gmail.com), Phone +91 8472-263297.
3. **Dr. S M Gaddad** Contact address: Professor, Department of PG Studies and Research in Microbiology Gulbarga University, Gulbarga- 585 106. Email: [smgaddad@gmail.com](mailto:smgaddad@gmail.com), Phone: +91 9901584515.

# Declaration

I hereby declare that all the information and facts given above are true and correct to the best of my knowledge.

## Triveni A G