

CURRICULUM VITAE

Dr. R.Vidhya, Ph.D

Assistant Professor,

Department of Microbiology,

Department of Research,

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RESEARCH INTERESTS

Interdisciplinary and Multidisciplinary Research Focus - Molecular Biology, Neonatal Sepsis, Gut Microbiome, Respiratory Medicine, Viral Infectious Diseases, Rheumatic Heart Disease, Pro-biotic based approach.

ACADEMIC PROFILE

Degree	Specialization	University/Institution	Year of Passing
PhD	Medical Microbiology	Chettinad Academy of Research and Education (CARE) Chennai - 603103	2022
M.Sc	Medical Microbiology	Chettinad Academy of Research and Education (CARE) Chennai - 603103	2016

FELLOWSHIPS / RESEARCH EXPERIENCE

Junior Research Fellow (2019-2022): Chettinad Academy of Research & Education, Chennai - 603103, Tamil Nadu, India.

PhD Thesis title: Molecular diagnosis of neonatal sepsis and its association with immunological markers and gut microbiota.

Experimental field: Multiplex-PCR, Real Time PCR, ELISA, Metagenomic sequencing, 16s microbiome profiling and Bioinformatics.

Core subject: Medical Microbiology

Teaching Experience – (From 2016 to till date)

As per the National Medical Council (NMC) , Medical Council of India (MCI), Dental Council of India (DCI) University Grants Commission (UGC) of India guidelines, I have taught:

- Microbiology theory and practical classes for Doctor of Medicine (MD) Master of Dental Surgery (MDS), MBBS, BDS, BS.c, MS.c (Allied Health Sciences & Nursing) students.
- Molecular Diagnostics and Research technologies for Research Assistant, MD Microbiology and MD Pathology students.

Clinical Microbiology Experience

- Clinical Bacteriology: Experience in processing and reporting various clinical specimens, identification, antibiogram and molecular typing of bacterial.
- Clinical Mycology: Identification of medically important fungi and antifungal susceptibility testing for yeast and moulds.
- Clinical Virology: Experience in virological technique which include Multiplex, RT-PCR and immunofluorescence techniques.
- Immunology: Hands on Experience in Immunofloresence and Blotting Techniques.

Research publications

1. **R Vidhya**, D Danis Vijay, A Sujhithra, S.H.ShifaMeharaj,S Jayanthi, T. Kathir Subramanian. Micro RNA as a potential biomarker for diagnosis of neonatal sepsis – A review. JEMDS, DOI: 10.14260/jemds/2021/83
2. **Vidhya Ravi**, D. Danis Vijay, A. Sujhithra, S. Jayanthi, T. Kathir Subramanian, N.Harish, Neonatal Sepsis: The impact of Hypervirulent Klebsiella pneumonia in a Tertiary Care Hospital, J Pure Appl Microbiol. 2022, <https://doi.org/10.22207/JPAM.16.3.56>
3. D. Danis Vijay, S.H. Shifa Meharaj , S. Jayanthi, A. Sujhithra, **R. Vidhya**, N. Meenakshi, Aruna Shanmuganathan, A Comparison Study of CBNAAT, Gene Xpert and Line Probe Assays in the Diagnosis of Tuberculosis in smear Negative Specimens, J Pure Appl Microbiol, 0973-7510; doi: 10.22207/JPAM.16.3.42.
4. D. Danis Vijay, S.H. Shifa Meharaj , S. Jayanthi, A. Sujhithra, **R. Vidhya**, N. Meenakshi, Aruna Shanmuganathan, A Comparison Study of CBNAAT, Gene Xpert and Line Probe Assays in the Diagnosis of Tuberculosis in smear Negative Specimens, J Pure Appl Microbiol, 0973-7510; doi: 10.22207/JPAM.16.3.42.
5. Sujhithra. A, S. Jayanthi, M. Chokkalingam, D. Danisvijay, **Vidhya R**, Sanjay Andrew Rajaratnam, Streptococcal Pharyngitis and Rheumatic Fever, | J Pure Appl Microbiol | 16(1):55-62,

doi.org/10.22207/JPAM.16.1.58.

6. D.Danis Vijay, ShifaMeharaj, Jayanthi, Sujhithra, **Vidhya.R** Symptomatic and asymptomatic presentation of SARS-CoV-2 (COVID-19) patients; a case report, JEMDS.DOI: 10.14260/jemds/2020/786.
7. D.Danisvijay, S.Jayanthi, N.Meenakshi, S.H.ShifaMeharaj, A.Sujhithra, **R.Vidhya**. A review of Pathogenesis, Treatment and Prevention of Novel Corona Virus (SARS-CoV-2) DOI: 10.31080/ecprm.2020.09.00632, EC pulmonology and respiratory medicine.
8. D.Danisvijay, S.H.ShifaMeharaj, A.Sujhithra, **R.Vidhya**, N.Meenakshi, S.Jayanthi, J.Perumal. Hypervirulent and biofilm specific resistance among carbapenemase producing Klebsiella pneumonia causing respiratory tract infection, Manuscript Number: thelancetrm-D-20-00001, pre print with THE LANCET.
9. **Vidhya Ravi**, D. Danis Vijay, A. Sujhithra, S. Jayanthi, T. Kathir Subramanian, N.Harish, Diagnostic utility of Interleukin-6, Interleukin- 8 and C-Reactive protein for early detection of Neonatal Sepsis in Tertiary Care Hospital, J Pure Appl Microbiol. 2022. (Under Review).
10. **Vidhya Ravi**, D. Danis Vijay, A. Sujhithra, S. Jayanthi, T. Kathir Subramanian, N.Harish, Association of gut microbiota with neonatal sepsis - A study from a tertiary care hospital. J Pure Appl Microbiol. 2022. (Under Review).

Conference paper presentation

1. “Hypervirulent and multidrug resistant *Klebsiella pneumoniae* causing neonatal sepsis - a prospective study” -International conference on advanced molecular diagnostics for infectious diseases. **2021**
2. “Interleukin 6 as a diagnostic marker for early detection of neonatal sepsis” International conference on novel paradigms in biotechnology-bioengineering interface-from concepts to reality. **2021**
3. A Study on Bacterial and Fungal Sinusitis and its antimicrobial sensitivity testing in a Tertiary Care Hospital - **39thMICROCON**,JIPMER,Puducherry

PERSONAL INFORMATION

Age & D.O.B	30 Years & 02.11.1993
Residential Address	27a, Sudharsan nagar, Madambakkam,Chennai 600,126, Tamil Nadu.
Nationality	Indian
Gender	Female
Marital Status	Married
Languages Known	Tamil and English (Able to read, write & speak)
Hobbies	Gardening and Cooking

Reference

1. Prof.Dr.S.Jayanthi, MD.,Ph.D,

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2. Prof.Dr.R.Murugesan, Ph.D

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3. Prof.Dr.T.Kathir subramanian, M.D

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