

Manipal Academy of Higher Education

Impressions@MAHE

Health collection

Researcher Profile

Winter 11-1-2022

Molecular Microbial Characterization

Kavitha S. Shettigar Dr.

Follow this and additional works at: <https://impressions.manipal.edu/health-collection>



Part of the [Life Sciences Commons](#), and the [Medicine and Health Sciences Commons](#)

Additional Information:**Previous research experience**

Dr. Kavitha S. Shettigar has worked in molecular profiling of bacterial and fungal isolates from more than 1,000-foot ulcer samples in diabetic and non-diabetic patients. *In silico* molecular primers and probes were designed for simultaneous detection of different species of bacteria and fungi. These designed oligos were validated using *in silico* tools. Foot ulcer pathogens were detected using reverse dot blot hybridization on nylon membrane. She has worked in genotyping of drug resistant bacterial isolates using various genotyping techniques. She has been worked with multiplex PCR system, MLST, MLVA rep-PCR, PFGE, DNA sequencing and multiplex PCR/reverse dot blot hybridization. In addition, she has worked in microbiological processing of clinical specimens using conventional culture methods and automated methods such as BD Identification system.

Her works are published in Genome Announcements, European Journal of Clinical Microbiology & Infectious Diseases, Journal of Medical Microbiology, Folia microbiologica, Journal of Medical Sciences, International Journal of Mycobacteriology.

Project under implementation

| S.No. | Funding Agency | Amount Sanctioned | Duration | Sanction order number |
|-------|-------------------|-------------------|-----------|-----------------------|
| 1 | DST SERB-CRG, GOI | Rs. 34,25,000/- | 2022-2025 | CRG/2021/001570 |

Award/Fellowship/Travel grants

| | | | |
|---|---|--|-------------------------------|
| 1 | Young Scientist Foreign Travel Grant for poster presentation in USA | Department of Biotechnology, Govt. of India | June 2013 |
| 2 | Young Scientist Foreign Travel Grant for poster presentation in Dubai | Department of Biotechnology, Govt. of India | June 2015 |
| 3 | Senior Research Fellowship | Department of Science & Technology (INSPIRE Program) | December 2013 - December 2015 |
| 4 | DST - INSPIRE Fellowship | Department of Science & Technology (INSPIRE Program) | December 2011 - December 2015 |

Membership

Lifetime member - Manipal-Government of Karnataka Bioincubator, Manipal – 576104, Karnataka, India (Membership ID: 0357)