

Dr. S.B.Anand M.Sc., Ph.D

Assistant Professor, Dept. of Genetic Engineering

School of Biotechnology

Madurai Kamaraj University

Madurai- 625021

Email: settyanand@gmail.com

HP: 91-9840212555



Area of Expertise:

- Development of molecular diagnostic tool for Parasitic infections
- Development of biomarker for early detection of Prostate cancer
- Development of Nanoencapsulated drugs as therapeutic agents for helminth infections

Contribution in Product/Process development and the technology transfer Areas:

Development of molecular diagnostic tool for parasitic infections: Our lab at Department of Genetic Engineering, School of Biotechnology is developing sensors based diagnostic detection for *Plasmodium* infections in collaboration with School of Chemistry, Madurai Kamaraj University. This study is in pilot phase and there is urgent demand in our nation as we have more *plasmodium vivax* infections and poor diagnostic tools.

Development of biomarker for early detection of Prostate cancer: This work is under progress with collaboration with Velammal Medical College, Madurai. We have identified some microRNA which is potential in early detection of prostate cancers. Still the expression profiles of these miRNA have to be investigated with more prostate cancer samples and the work is under progress.

Development of Nanoencapsulated drugs as therapeutic agents for helminth infections: We have shown that Natural compounds having therapeutic potential for treatment of secondary induced lymphatic filarial infections. We are in developing nanoencapsulated natural compounds for treating the helminth infections. This project is in collaboration with University of Madras, Chennai.

Consultancy Services:

We can provide detection of parasitic infections like *filarial* or *Plasmodium* in and around University campus and nearby villages of our Judiciation. This will be able to help early detection and hotspots and control the prevalence of the diseases.

