

Name : **PODILA NARESH**
Department : **Pharmaceutical Chemistry**
Contact Address : **JSSCP, Ooty**
Email ID : nareshtrcp10@gmail.com
Contact : **9052058427**



Educational Qualification: M. Pham in Pharmaceutical Chemistry

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Project Supervisors : **Dr. S. JUBIE**

Research Abstract

A major health problem concern worldwide in recent years is a most prevalent mosquito-borne viral pathogen dengue virus (DENV). Presently around the world dengue is endemic in 112 countries. Mostly in tropical and subtropical areas, each year 50-100 million individuals are infected with DENV resulting in nearly 500000 severe life threatening illnesses and 25000 deaths. One attractive approach could be the interruption of the virus replication at an early stage of attachment. Membrane fusion is a central molecular event during viral entry into host cell. E (envelope) protein is a major component of the virion surface plays an important role in binding to the host receptor and assists virus fusion. Among the three domains present in the E protein, Hinge region movement of domain I and II, facilitates the fusion process. Rearrangement and or conformational changes in the hinge region by small molecules may interrupt the fusion process.

Fellowships: JSSU - JRF

Awards & Scholarships:

- Received BEST POSTER award for poster presentation.
- I received BC welfare scholarship in B Pham.
- I received merit scholarship from state government in M Pham.
- Published **6** research article in international journals (Cumulative impact of 8.5)

Way Forward

I want to see myself as a scientist in central government institute to contribute my knowledge in dengue drug development, which benefits our society. To attain this goal I strongly believe experience as a post doc will help me out.