



Title: A Glimpse on Nanospheres Drug Delivery for Tuberculosis Chemotherapy

VISHNU VARDHAN REDDY BEERAM¹, VENKATA NADH R² and KRUPANIDHI S¹

¹Department of Biotechnology, Vignan's University, Vadlamudi, Guntur-522213, India.

email: srivyshu.pharma@gmail.com; Mobile: +91-9705070901

²GITAM University – Bengaluru Campus, Karnataka- 561 203, India,

email: doctornadh@yahoo.co.in; Mobile: +91-9902632733

Tuberculosis is a leading cause of death in most of the developing countries. The prevalence of Tuberculosis is exacerbated due to the co-infection with HIV/AIDS. Drug associated side effects; non-compliance and prolonged treatment course are some of the reasons for poor response of at present therapeutic management of tuberculosis. To avoid all these drawbacks we need to develop novel drug delivery system, which is Nanospheres mediated drug delivery. The field of drug development potentially benefit generally from Nanomedicine has gained ground over the past 5 years. The site targeted Nanospheres based drug delivery will address the following shortfalls of current conventional drug delivery like lack of specificity, toxicity of excess drug, low solubility leading to low bioavailability and reduced efficacy. And nanometer size ranges of Nanoparticle or Nanospheres offers certain distinct advantages in Tuberculosis chemotherapy. Due to their sub cellular size can penetrate deep into tissues through fine capillaries that allow efficient delivery of chemotherapeutic agents to target sites in the body.

Biography:

Mr. Vishnu Vardhan Reddy Beeram pursuing PhD from VIGNAN'S University, Vadlamudi, Guntur, Andhrapradesh, India. He has Completed Master of pharmacy in Pharmaceutics specialization form Rajiv Gandhi University of Health and Sciences, Bengaluru, Karnataka, India. He has published more than 10 papers in reputed scientific journals.