

## **Highlights of Work Proposed during 2007-08**

With the acquisition of modern equipments, trained manpower and the support of extra mural and intra mural funds, proposed research of the Centre has been focused on molecular biology, genomics, cell biology and biochemical studies to explain the transmission competence of dengue vectors, mode of action of biolarvicidal action in dengue vectors, and virulence of dengue leading to DHF among patients. To achieve this ongoing studies pertaining to these aspects will be continued and new comprehensive and collaborative proposal on molecular and genomic basis of virulence of different dengue viruses and transmission and maintenance competence of dengue vectors have been developed. Interventional studies to monitor and interrupt transmission of dengue and validation of malaria forecasting will also form the prospective research plan. It is proposed to study possible role of zinc as trace element associated with the immunity among patients of tuberculosis, rapid culture of *Mycobacterium tuberculosis* and Development of an integrated strategy to control malaria in Jaisalmer district of Rajasthan.

In addition, some newer areas of research pertaining to life style diseases such as Rheumatic fever and Rheumatic heart Diseases, Prevalence studies of Diabetes mellitus and impaired glucose tolerance in the Raika and other communities with similar life style, Epidemiology of Musculoskeletal Conditions in India; Meta Analysis of intervention studies on Micronutrient Deficiency Disorders and their Mapping in Rajasthan are proposed to be undertaken.