OBJECTIVES

With the above background the work is design to fulfill the following objectives:

1) Spectrum of different etiological agents related to liver disease, and PCR based detection of Hepatitis virus infection among patients suffering from liver diseases cases in Assam.

2) To determine the prevalence of HAV, HBV, HCV and HEV genotype in the above positive cases.

3) A case-control study of gene polymorphisms for cytochrome P-450 2E1 (CYP2E1), hOGG1, and XRCC1 in the above patients.

4) Correlate the associate role of the polymorphisms in the severity of the liver disease in the respective Hepatitis virus infected cases

5) To analyze the role of environmental factors like nitrites and 8-OH-dG in predisposing patients towards liver disease susceptibility in Northeast India.