Future scope of the work:

Further work on purification and biochemical characterization of the hydantoinase enzyme is important to understand the enzyme. Some of such studies done by others are as follows: Studies carried out by Runser et al.\cite{8,9} for *Agrobacterium* spp. showed that enzyme consists of about 578 aminoacyl residues with isoelectric pH of 6.5. Cloning, sequencing, and expression in *E. coli* were carried out by LaPointe et al.\cite{11,12}. Conversion with recombinant *E. coli* was carried out by Martinex-Rodriguez et al.\cite{13} and improvement in conversion observed. Mukohara et al.\cite{14} characterized a thermostable hydantoinase from *Bacillus* spp.

LaPointe et al.\cite{11,12} used the D-hydantoinase genes of the *Pseudomonas* spp. and developed a DNA probe of 122 base pairs to detect D-hydantoinase producing microorganisms by direct colony hybridization. Further study in regard to identification of the gene, properties of the enzyme structure etc. will help us understand the enzyme better. Sequencing, cloning and over expressing of the enzyme may result in a suitable system for commercial use. Future work will be based on such studies.