

Future Scope of work

This study has shown that bacteria can be used as potential sources for statin production by the semisynthetic route. Future studies should be continued:

- To investigate the bacterial genes/enzymes in detail by fine mapping for the biocatalytic activity.
- Detailed optimization and process economization studies are required using bacterial fermentation reaction to increase the yields and to make it an industrially useful manufacturing tool for semisynthetic statin production at large scale for substantial cost reduction and efficient synthesis of potent derivatives for diverse therapeutic applications
- Exploring the application of these bacterial enzymes and cohorts for similar microbial transformations to produce molecules possessing different therapeutic categories.