

**COMPUTATIONAL CHARACTERIZATION OF NON-  
ACTIVE SITE MUTATION V77I IN HIV-1 PROTEASE:  
POSSIBLE CONTRIBUTION TO NELFINAVIR  
RESISTANCE AND DEVELOPMENT OF NEW DRUG  
LEADS TARGETING HIV-1 PROTEASE**

*A Major Project dissertation submitted*

*In partial fulfilment of the requirement for the degree of*

**Master of Technology**

**In**

**Bioinformatics**

*Submitted by*

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## CERTIFICATE

This is to certify that the M. Tech. dissertation entitled “**Computational characterization of non-active site mutation V77I in HIV-1 protease: possible contribution to Nelfinavir resistance and development of new drug leads targeting HIV-1 protease**”, submitted by **ANKITA GUPTA (2K12/BIO/03)** in partial fulfilment of the requirement for the award of the degree of Master of Engineering, Delhi Technological University (Formerly Delhi College of Engineering, University of Delhi), is an authentic record of the candidate’s own work carried out by him/her under my guidance.

The information and data enclosed in this dissertation is original and has not been submitted elsewhere for honouring of any other degree.

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# DECLARATION

I hereby declare that the project work entitled “COMPUTATIONAL CHARACTERIZATION OF NON-ACTIVE SITE MUTATION V77I IN HIV-1 PROTEASE: POSSIBLE CONTRIBUTION TO NELFINAVIR RESISTANCE AND DEVELOPMENT OF NEW DRUG LEADS TARGETING HIV-1 PROTEASE” submitted to the Delhi Technological University (formerly Delhi College of Engineering), is a record of an original work done by me under the guidance of DR Bansi D Malhotra (Project Mentor), Head Of Department, Department of Biotechnology, Delhi Technological University. This project work is submitted in the partial fulfilment of the requirements for the award of the degree of Master of Technology in the field of Bioinformatics. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

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*Productivity is never an accident. It is always the result of a commitment to excellence, intelligent planning, and focused effort.*

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