Molecular Docking Studies of Dolichin A and B, Pterocarps from Horsegram (Macrotyloma uniflorum) against HIV Replication Enzymes

Abstract

Isomeric pterocarps, Dolichin A and Dolichin B of Macrotyloma uniflorum were docked with the three replication enzymes of HIV (Reverse transcriptase, Protease, Integrase). Analysed results proved that the docking score was high for Protease with Dolichin A (-6.6899) and Dolichin B (-6.6944) among Reverse transcriptase and Integrase. AIDS therapies could be scrutinized and/or replaced after the successful inhibitory effect of Dolichin. This study will support the cutting edge of HIV research and drug designing to find out a less side effect causing herbal formulations.

References

Inhibitors of HIV-1 replication that inhibit HIV integrase. Proceedings of National Academy of Sciences. USA 93, 6326–6331.

Index Terms

Computer Science
Applied Sciences

Keywords

Macrotyloima uniflorum  Dolichin A and Dolichin B  AIDS  Docking