Review of: "Design and Molecular Screening of Various Compounds by Molecular Docking as BACE-1 Inhibitors"

Vidyasrilekha Yele

Potential competing interests: No potential competing interests to declare.

The authors' approach to finding potent inhibitors of BACE-1 is intriguing; however, it is significantly undermined by inadequate presentation and writing. The overall manuscript lacks clarity and coherence, and the figures are of subpar quality. I recommended that the authors should refer to reputable articles to improve the quality of their figures. Several key issues are highlighted below:

1. Ensure the use of appropriate scientific terminology in the manuscript.

2. In the abstract, the authors should visualize the resultant lead molecules and mention the crucial functional groups that are forming interactions with amino acid residues for their inhibiting activity towards the BACE-1 target protein.

3. Also include the docking scores of the lead molecules within the abstract.

4. The authors should shortly mention the previous computational work done against BACE-1 within the introductory part.

5. The quality of the figures and tables needs to be improved.

6. In section 5.1, include the docking results and interaction analysis for the standard compound donepezil.

7. In the conclusion part, mention shortly the future directions of this study.