

Whereas the work seems to be carefully done, some few points need attention before publication. In my view the idea is original and the work could contribute to the development of new AChE inhibitors. The QSAR study presented seems good to me. In this line, please find below some suggestions to improve the quality of the manuscript.

- 1) The authors should report applicability domain of the developed models according to Chemom Intell Lab Sys, 145, 2015, 22-29, <http://dx.doi.org/10.1016/j.chemolab.2015.04.013>.
- 2) The authors should also use rm2 metrics for validation. See J Comput Chem 34, 2013, 1071-1082, <http://dx.doi.org/10.1002/jcc.23231> and Journal of Chemistry, vol. 2016, Article ID 9198582, 12 pages, 2016. doi:10.1155/2016/9198582. Please introduce those papers.
- 3) A deeper discussion about the docking results is need.
- 4) Finally, the following references could be introduced in the paper:

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. VOL.: 33, 2048-2058 (2015).

CURRENT BIOINFORMATICS VOL. 8, 496-510 (2013).

JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, VOL. 27, 641-649 (2016).

CURRENT TOPICS IN MEDICINAL CHEMISTRY VOL. 12, 1843-1865 (2012).