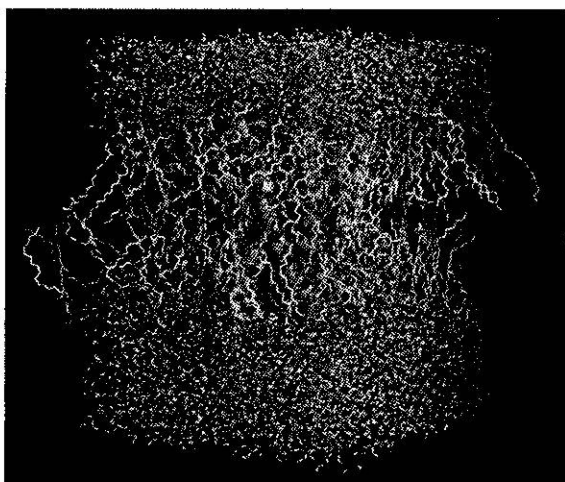


## Computer model of activation of serotonin receptor 5-HT<sub>7</sub> in cellular membrane and its interaction with agonists.

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The computer model of activated conformation of serotonin 5-HT<sub>7</sub> receptor is presented. It was obtained by means of long molecular dynamics simulation of the receptor with docked agonist (5-HT), embedded in fully hydrated phospholipid bilayer. The activated conformation of the receptor is compared to the results of the similar simulation of "empty" receptor, representing the non-activated form and juxtaposed with the recently published crystal structure of photoactivated bovine rhodopsin [1].

### References

- [1] Lodowski, D.T., Stenkamp, R.E., Trong, I.L., Golczak, M., Jastrzebska, B., Harris, T., Ballesteros, J.A., Palczewski, K. Crystal structure of a photoactivated deprotonated intermediate of rhodopsin. *Proc.Natl.Acad.Sci.Usa* v103 pp.16123-16128, 2006