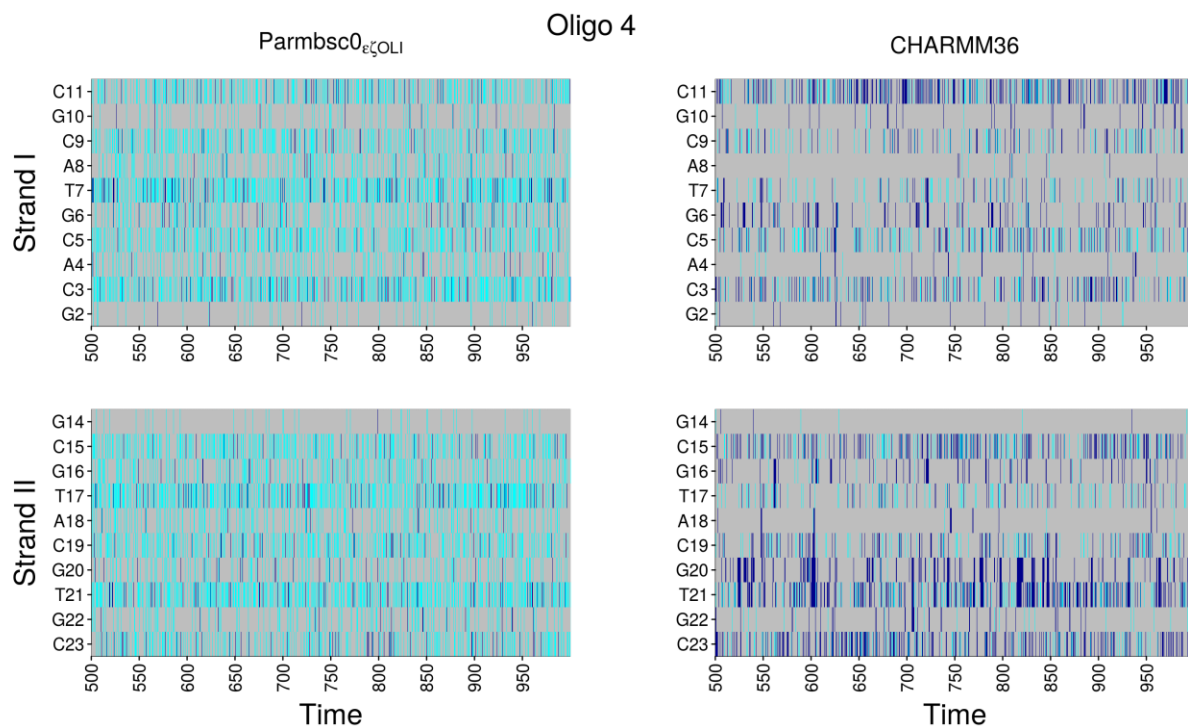


**S6 Fig.** Influence of the force-field on the sugar puckers during the MD simulation of Oligo 4.



In MDs, the sugars interchange between three puckers, *south* (grey), *east* (cyan) and *north* (blue). The evolution of these conformations versus time (ns) is illustrated for the sugars along the two strands of Oligo 4 in the second part of  $\mu$ s MDs carried out with Parmbsc0<sub>eζOLI</sub> (left panels) or CHARMM36 (right panels). The sugar puckers are influenced by the force-field (see also Fig 2).

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