

S3 Table. Values of inter base pair parameters according to the conformational combinations of facing phosphate groups.

	Shift		Tilt		Rise	
	P-MDs	C-MDs	P-MDs	C-MDs	P-MDs	C-MDs
BI•BI	0 (0.1)	0 (0.5)	-0.2 (1.5)	0 (5)	3.3 (0.1)	3.4 (0.4)
BI•BII BII•BI	0 (0.5)	0 (0.6)	-0.4 (2.4)	-0.1 (5.5)	3.4 (0.1)	3.5 (0.4)
BII•BII	0 (0.2)	0 (0.5)	-0.5 (2.6)	-0.1 (5.7)	3.5 (0.2)	3.6 (0.5)

The characteristic values of Shift (Å), Tilt (°) and Rise (Å) with standard deviations in brackets are given for the three combinations of facing phosphate groups, regardless the dinucleotidic sequence. The inter base pair parameter values were extracted from the analysis of the simulations with Parmbsc0_{εCOLI} (P-MDs) and CHARMM36 (C-MDs).

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