Supporting Information:

Human DNA Telomeres in Presence of Oxidative Lesions: The Crucial Role of Electrostatic Interactions on the Stability of Guanine Quadruplexes

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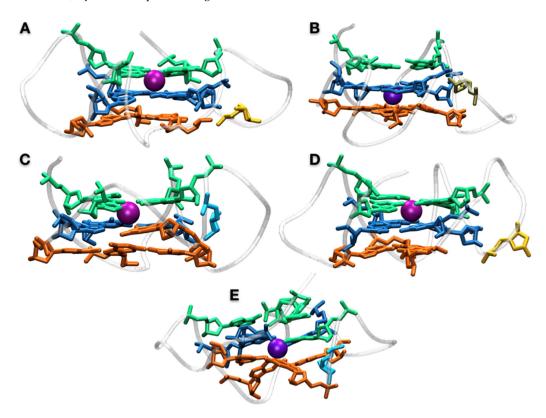


Figure 1. Representative snapshots of all the G4 evolution 4G (A), 14G (B), 15G (C), 16G (D), 21G (E).

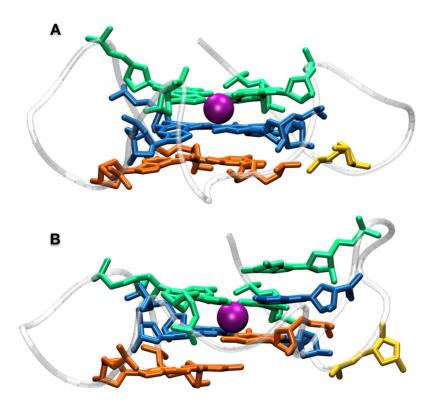


Figure S2: Representative snapshots for the **4G** quadruplex before (**A**) and after (**B**) substitution of one of the guanine of the peripheral tetrad into the central one. Note that the substitution takes place after 30ns and is then persisting until the end of the simulation (i.e., for about 60 ns).

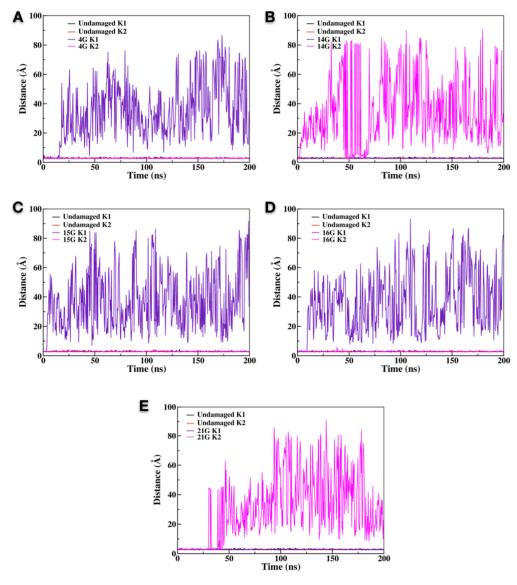


Figure S3: Time evolution of the distances between K^+ and the tetrad guanine for all the damaged quadruplexes 4G(A), 14G(B), 15G(C), 16G(D), 21G(E).