

Supporting Information for:

Getting to Guanine: Mechanism and Dynamics of Charge Separation and Charge Recombination in DNA Revisited

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Figure S1. Pump-probe transient absorption spectra for hairpin **TG** in the time range of 0.5 ps to 1.8 ns after excitation at 338 nm. Early spectra are shown in blue/green, and late spectra are shown in orange/red colors. Inset shows time dependent 520/574 nm band intensity ratio with biexponential fitting.

Figure S2. Pump-probe transient absorption spectra for hairpin **T₂G** in the time range of 0.5 ps to 1.8 ns after excitation at 338 nm. Early spectra are shown in blue/green, and late spectra are shown in orange/red colors. Inset shows time dependent 520/574 nm band intensity ratio with biexponential fitting.

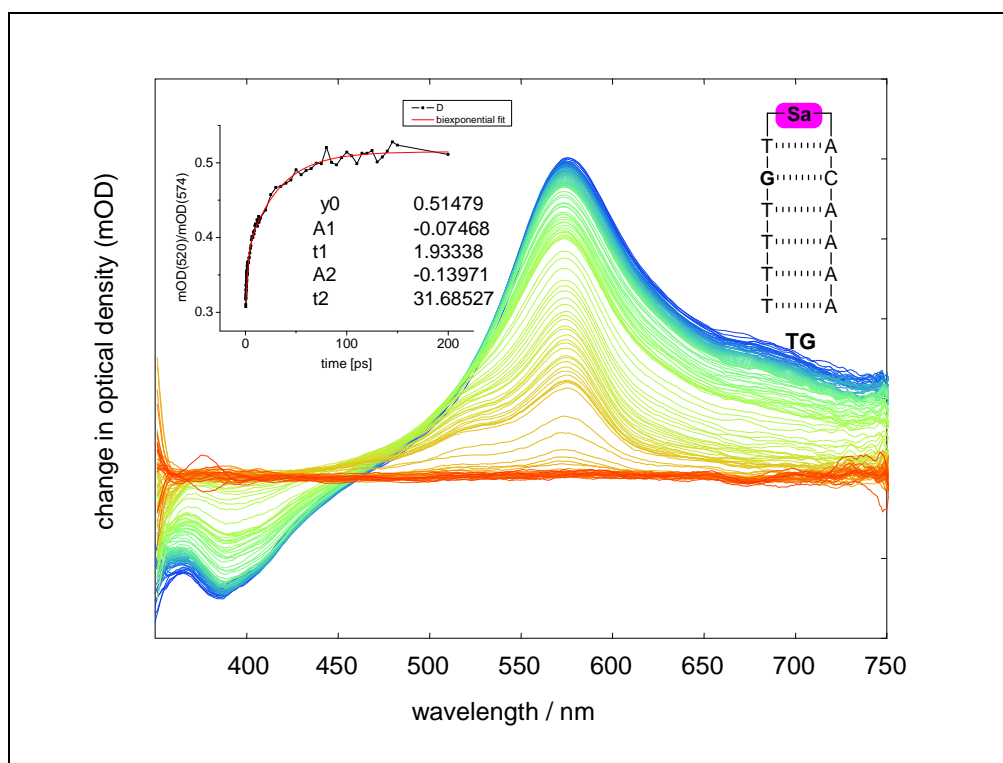


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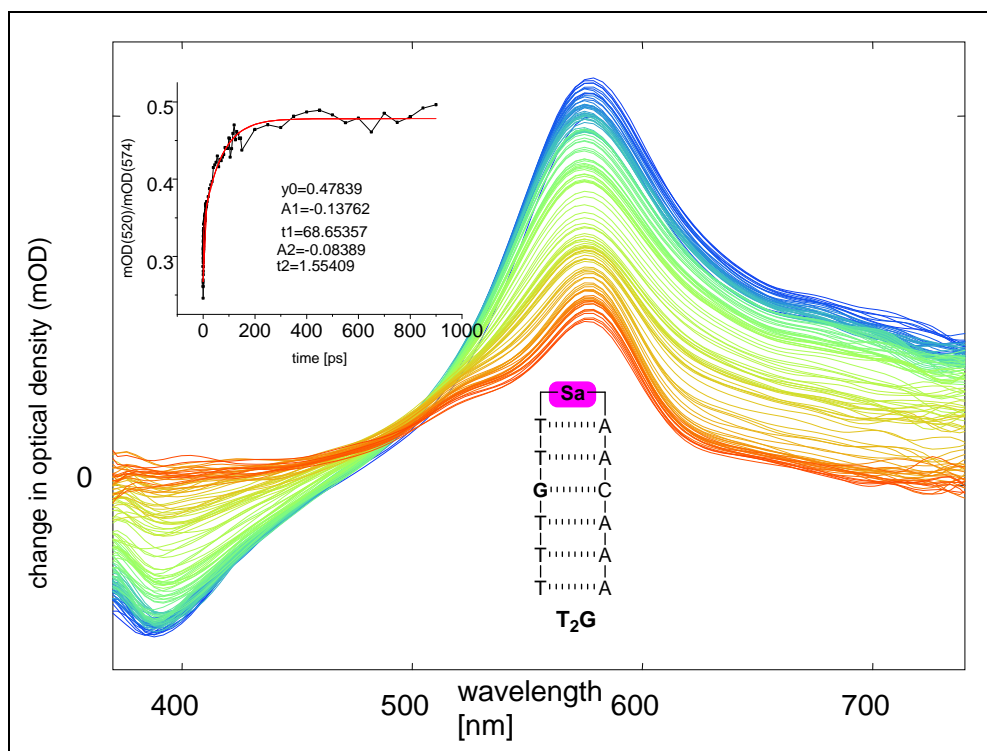


Figure S2. Pump-probe transient absorption spectra for hairpin T_2G in the time range of 0.5 ps to 1.8 ns after excitation at 338 nm. Early spectra are shown in blue/green, and late spectra are shown in orange/red colors. Inset shows time dependent 520/574 nm band intensity ratio with biexponential fitting.