Supporting Information

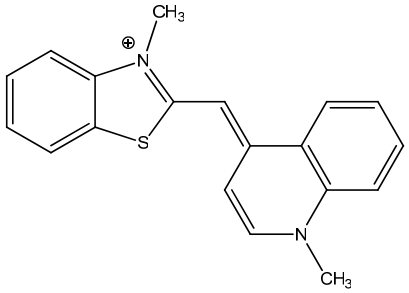

Figure S1.Chemical structure of thiazole orange

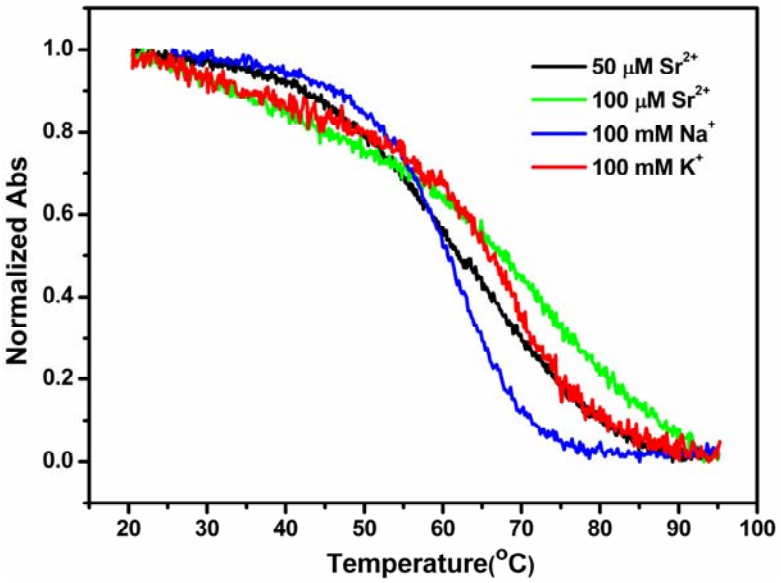

Figure S2. The melting profiles of human telomeric G-quadruplex (1 μM/strand) in the presence of 50 μM Sr^{2+} (black) , 100 μM Sr^{2+} (green), 100 mM Na^{+} (blue) and 100 mM K^{+} (red), respectively.

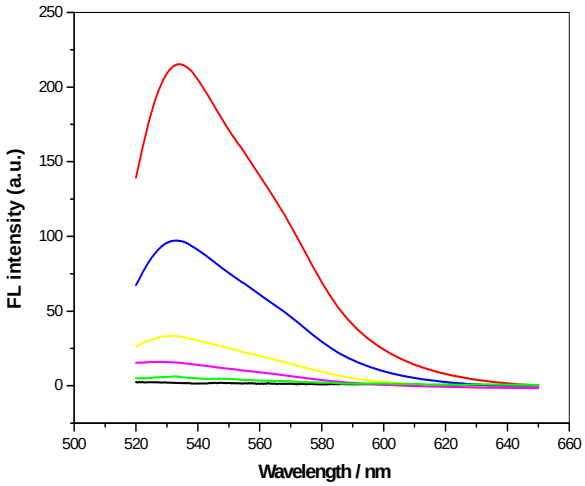

Figure S3. Fluorescence-Quenching of TO binding ssDNA by SWNTs. Fluorescence emission spectra of 1μM TO (black), 1μM TO + 0.5μM AG_3 (red), 1μM TO + 0.5μM AG_3 + 1 μg/mL SWNTs (blue), + 2 μg/mL SWNTs (yellow), + 4 μg/mL SWNTs (pink), + 6 μg/mL SWNTs (green) in 10 mM Tris-HCl buffer, pH=7.0 (λ_{ex} = 480 nm).

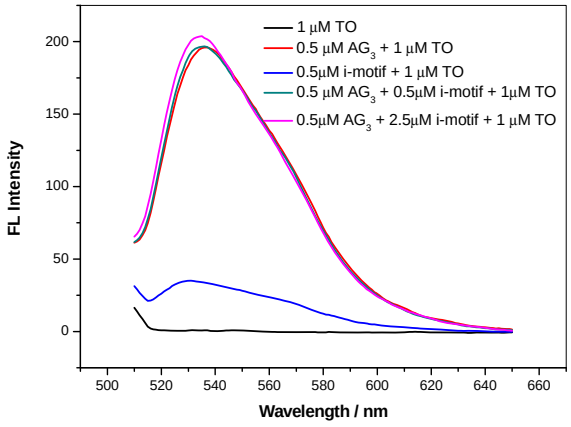

Figure S4. Fluorescence emission spectra of 1 μM TO alone (black), 1 μM TO + 0.5 μM AG_3 (red), 1 μM TO + 0.5 μM i-motif (blue), 1 μM TO + 0.5 μM AG_3 + 0.5 μM i-motif (green), 1 μM TO + 0.5 μM AG_3 + 2.5 μM i-motif (pink), respectively.

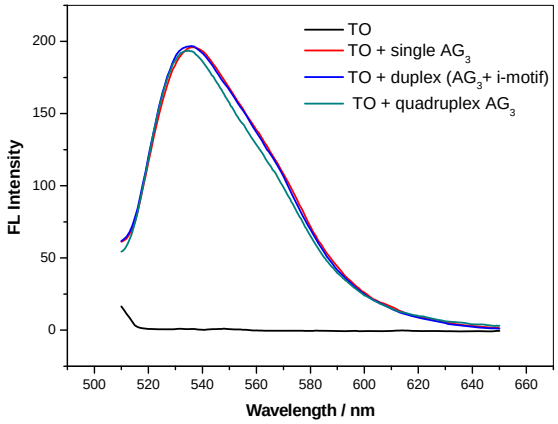

Figure S5. Fluorescence emission spectra of 1 μM TO alone (black), 1 μM TO + 0.5 μM AG_3 (red), 1 μM TO + 0.5 μM AG_3 + 0.5 μM i-motif (blue), 1 μM TO + 0.5 μM AG_3 + 50 μM Sr^{2+} (green), in the absence of SWNTs, respectively.

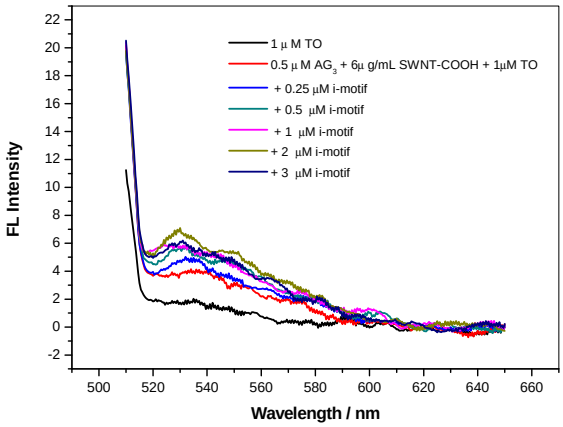

Figure S6. Fluorescence emission spectra of 1 μM TO alone (black), 1 μM TO + 0.5 μM AG_3 (red), 2 + 0.25 μM i-motif (blue), 2 + 0.5 μM i-motif (green), 2 + 0.5 μM i-motif, 2 + 1 μM i-motif, 2 + 2 μM i-motif, 2 + 3 μM i-motif, in the presence of SWNTs, respectively.

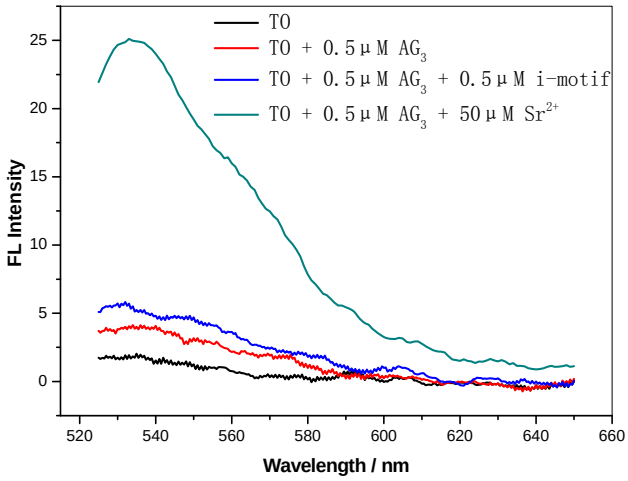

Figure S7. Fluorescence emission spectra of 1 μM TO alone (black), 1 μM TO + 0.5 μM AG_3 (red), 2 + 0.5 μM i-motif (blue), 2 +50 μM Sr^{2+} (green) in the presence of SWNTs, respectively.