Supplementary Materials

Does Green Exfoliation of Graphene Produce More Biocompatible Structures?

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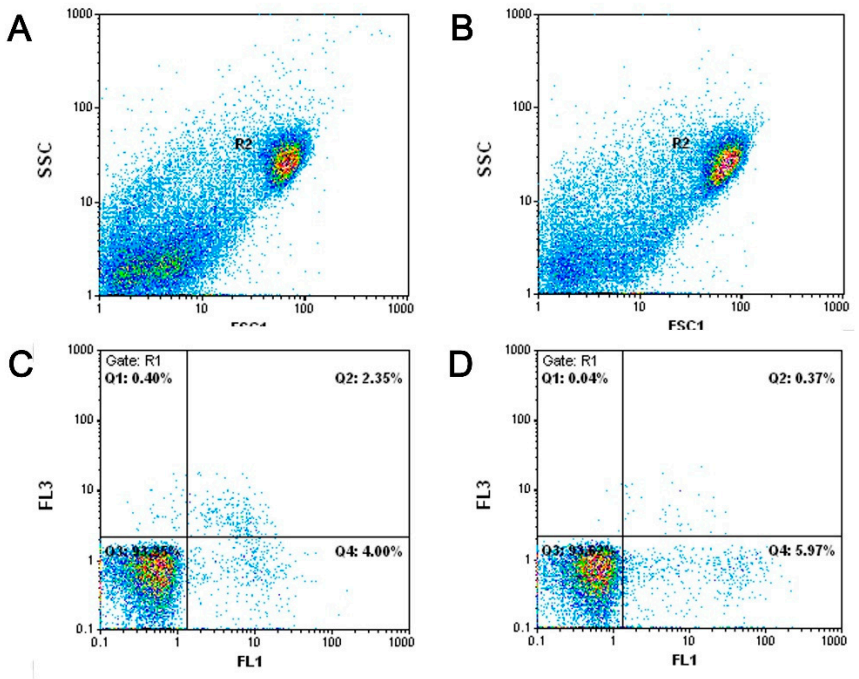

Figure S1. Apoptosis assay using flow cytometry after staining with annexin V-FITC/propidium iodide (PI) in NIH/3T3 cells. Forward versus side scatter (FSC vs SSC) gating was used to identify the cell size and granularity of the untreated (A) and treated with 0.75% v/v DMF for 24h (equal to treatment with 50 μg/mL cG) (B) cells. Representative scatter plots of PI (y-axis) vs. annexin V (x-axis) of the untreated (C) and treated with 0.75% v/v DMF for 24h (equal to treatment with 50 μg/mL cG) (D) cells.

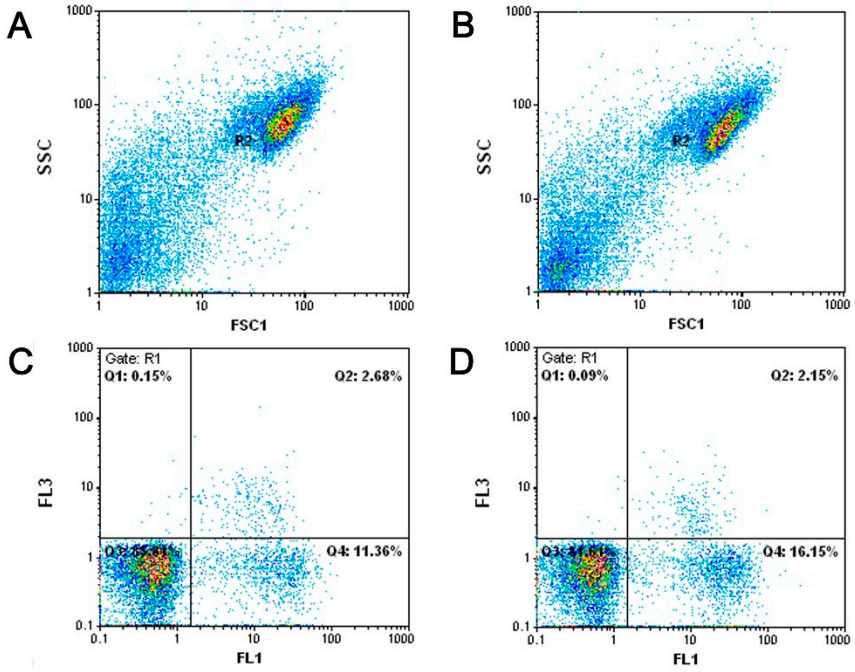

Figure S2. Apoptosis assay using flow cytometry after staining with annexin V-FITC/propidium iodide (PI) in HaCaT cells. Forward versus side scatter (FSC vs SSC) gating was used to identify the cell size and granularity of the untreated (A) and treated with 0.75% v/v DMF for 24h (equal to treatment with 50 μg/mL cG) (B) cells. Representative scatter plots of PI (y-axis) vs. annexin V (x-axis) of the untreated (C) and treated with 0.75% v/v DMF for 24h (equal to treatment with 50 μg/mL cG) (D) cells.

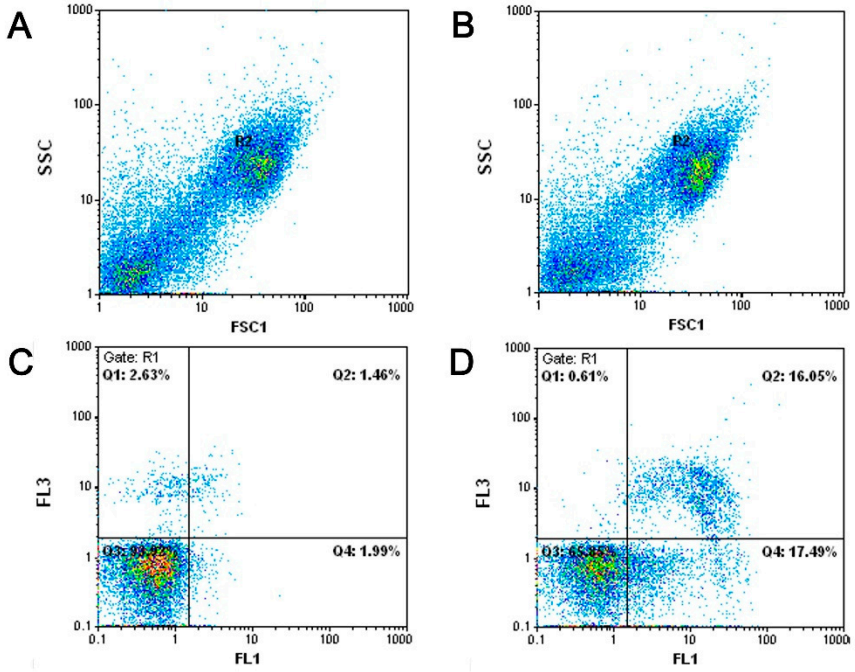

Figure S3. Apoptosis assay using flow cytometry after staining with annexin V-FITC/propidium iodide (PI) in THP-1 derived macrophages. Forward versus side scatter (FSC vs SSC) gating was used to identify the cell size and granularity of the untreated (A) and treated with 0.75% v/v DMF for 24h (equal to treatment with 50 μg/mL cG) (B) cells. Representative scatter plots of PI (y-axis) vs. annexin V (x-axis) of the untreated (C) and treated with 0.75% v/v DMF for 24h (equal to treatment with 50 μg/mL cG) (D) cells.

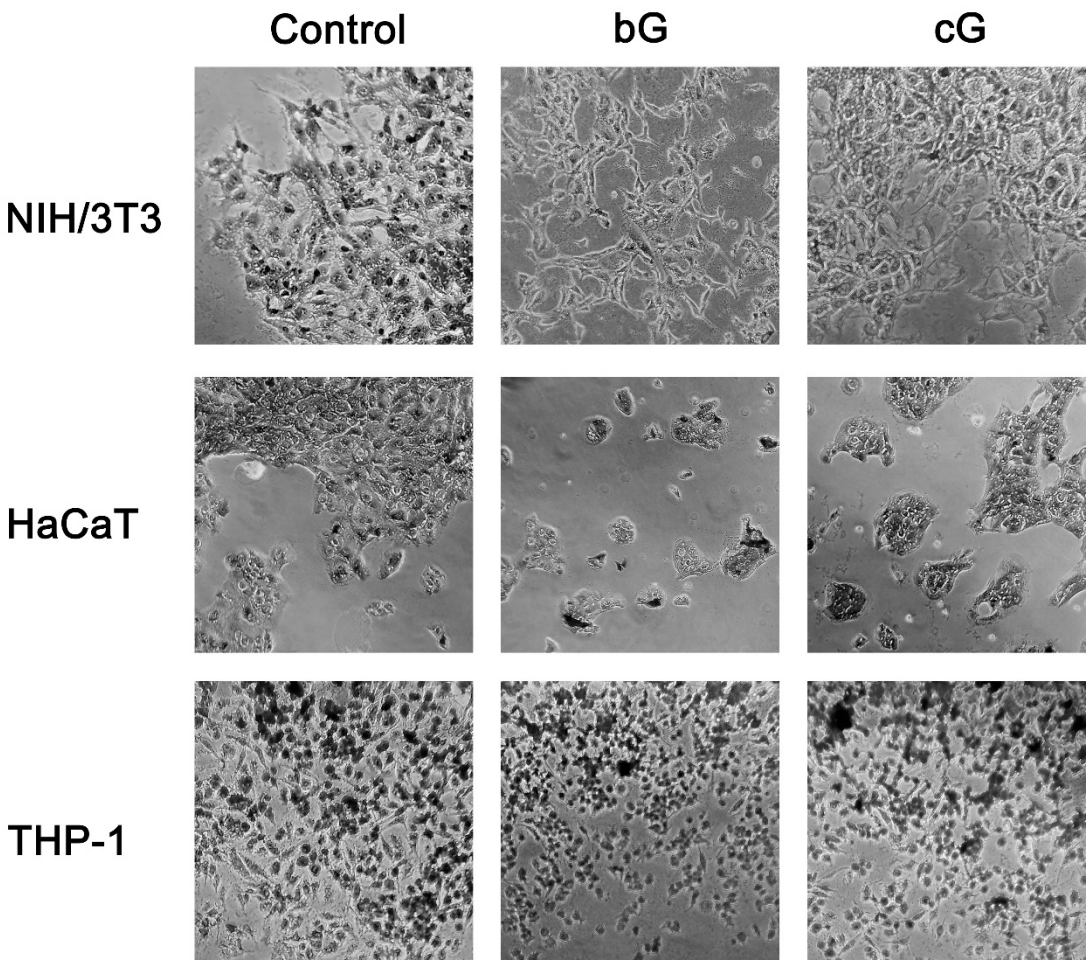

Figure S4. Optical cell images of NIH/3T3, HaCaT cells and THP-1- derived macrophages, after staining with 0.5% crystal violet. Cells were treated with 20 μg/mL of either bG or cG for 24h.

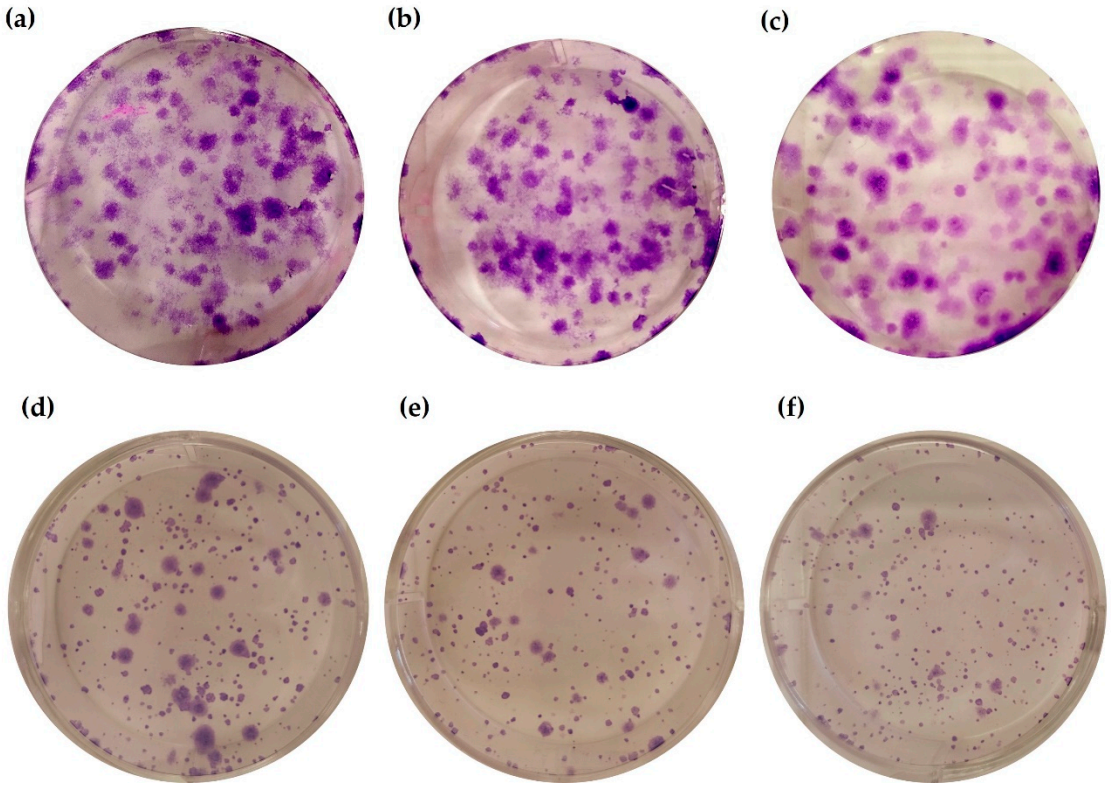

Figure S5. Clonogenic assay in NIH/3T3 (a, b, and c) and HaCaT cells (d, e, and f). Untreated cells (a and d). Cells treated with 20 μg/mL bG (b and e) or cG (c and f) for 48h.