Supporting Information

C60 Fullerene Localization and Membrane Interactions in RAW 264.7 Immortalized Mouse Macrophages

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Figure S1. Characterization of C$_{60}$ Fullerenes and Terbium-Endohedral Fullerenes. (A) Zeta potential of C$_{60}$ fullerenes and terbium-endohedral fullerenes. The average zeta potential of the C$_{60}$ fullerenes (red, blue, green) was -44.3 mV, with -64.3 mV for the terbium-endohedral fullerenes (black). The similar sign and measurement of the zeta potential predict that the particles behave similarly. (B) Size distribution of C$_{60}$ fullerenes and terbium-endohedral fullerenes by the Malvern Zetasizer. The average aggregate size of C$_{60}$ fullerenes (red, blue, green) was 91.13 nm, with 99.31 nm for the terbium-endohedral fullerenes (black).
Figure S2. Freeze-Fracture Transmission Electron Microscopy on RAW 264.7 Cells. (A) Control cells. (B) Cells exposed to 0.5 μg/mL terbium-endohedral fullerenes. Fullerenes entering the membrane space are circled.
Figure S3. Red (top), green (middle) and blue (bottom) channel of the epifluorescent images of immortalized RAW 264.7 macrophages shown in Figure 3 of the main text.
**Figure S4.** Epifluorescent image (top left) and its red (top right), green (bottom left), and blue (bottom right) channels of the control cells with undetectable intracellular fullerene (red channel).