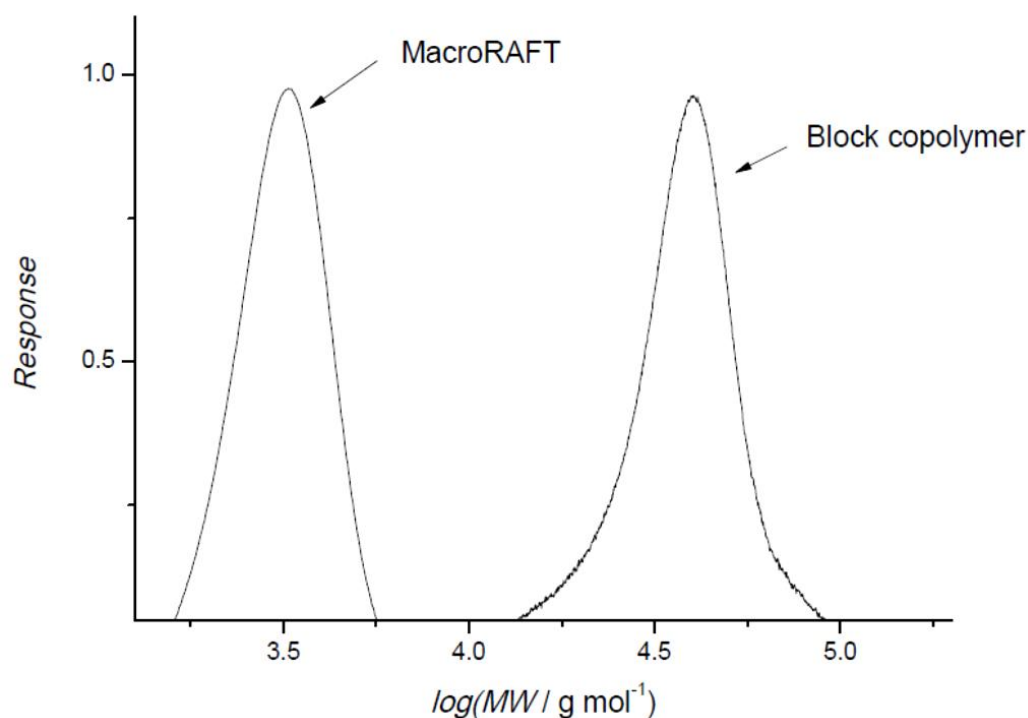


# ELECTRONIC SUPPORTING

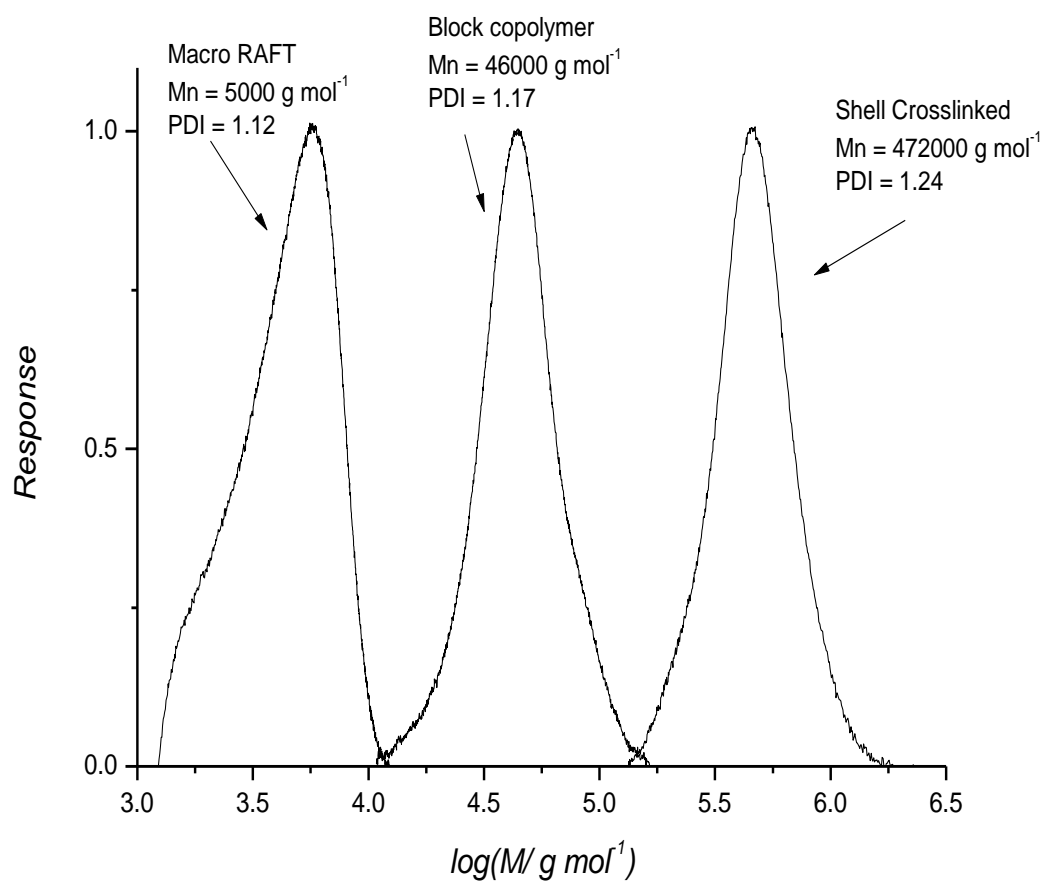
# INFORMATION

## Effect of shell-crosslinking of micelles on endocytosis and exocytosis: Acceleration of exocytosis by crosslinking

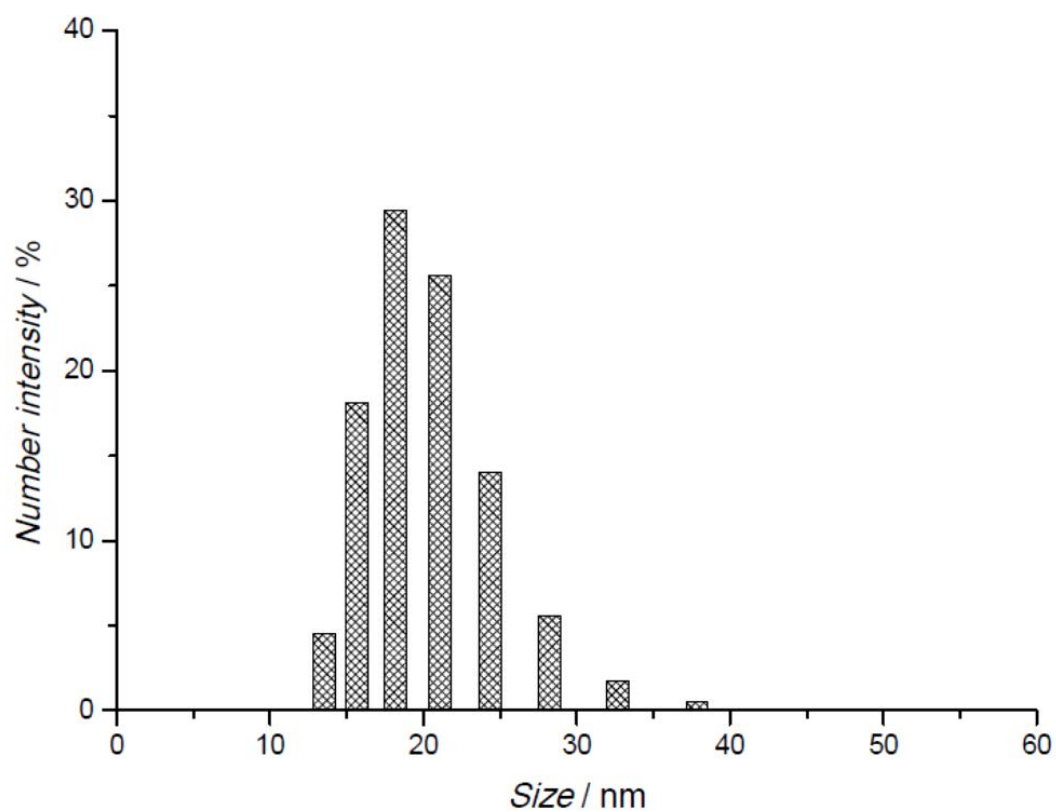
*Yoseop Kim, Mohammad H. Pourgholami, David L. Morris, Hongxu Lu, Martina H. Stenzel*



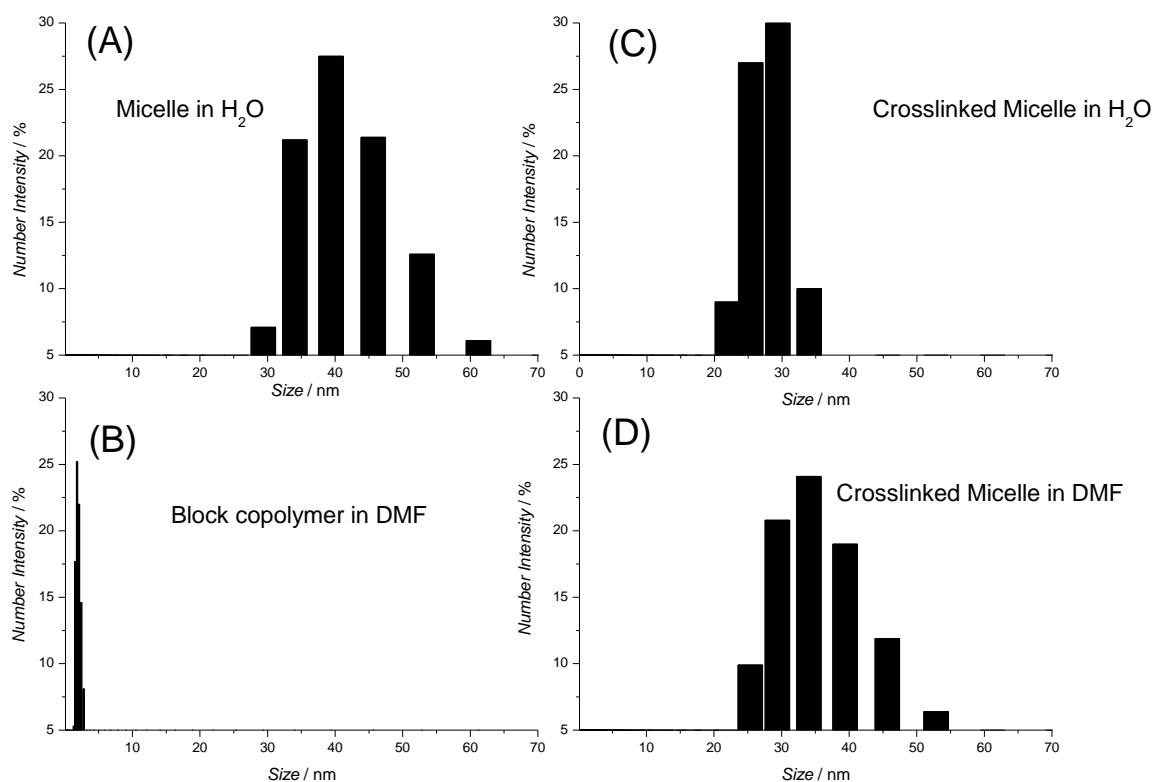
**Figure S1.** Comparison of SEC chromatograms of PMMA homopolymer (macroRAFT agent) and PPEGMEMA-b-PMMA block copolymer



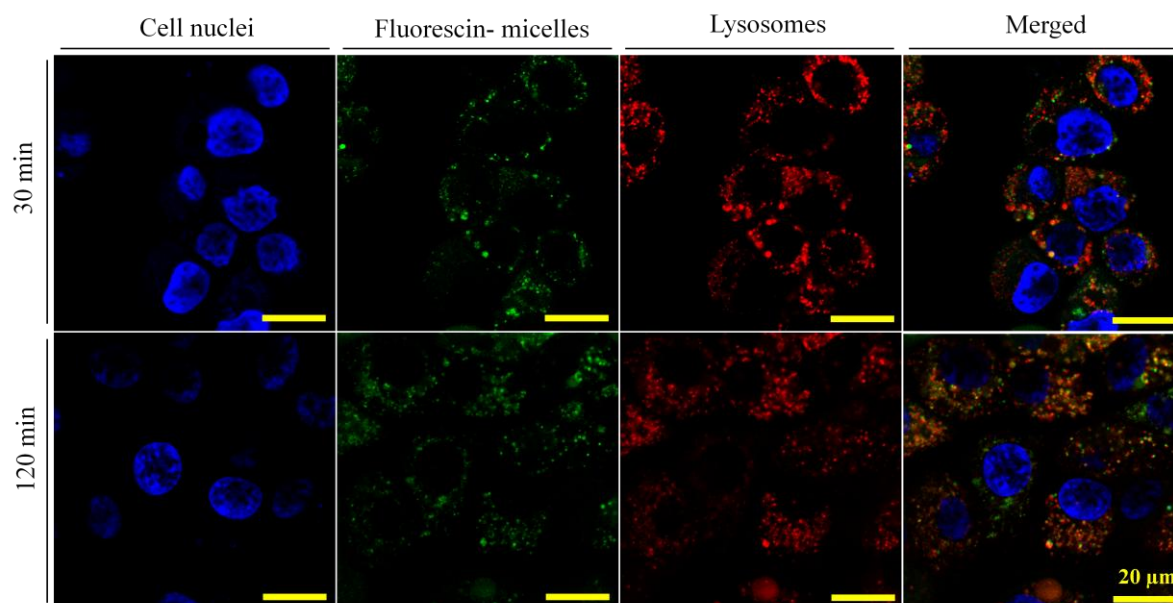
**Figure S2.** Comparison of SEC chromatograms of PMMA homopolymer (macroRAFT), PMMA-*b*-P(PEGMEMMA-*co*-MAA) block copolymer and shell-crosslinked micelle



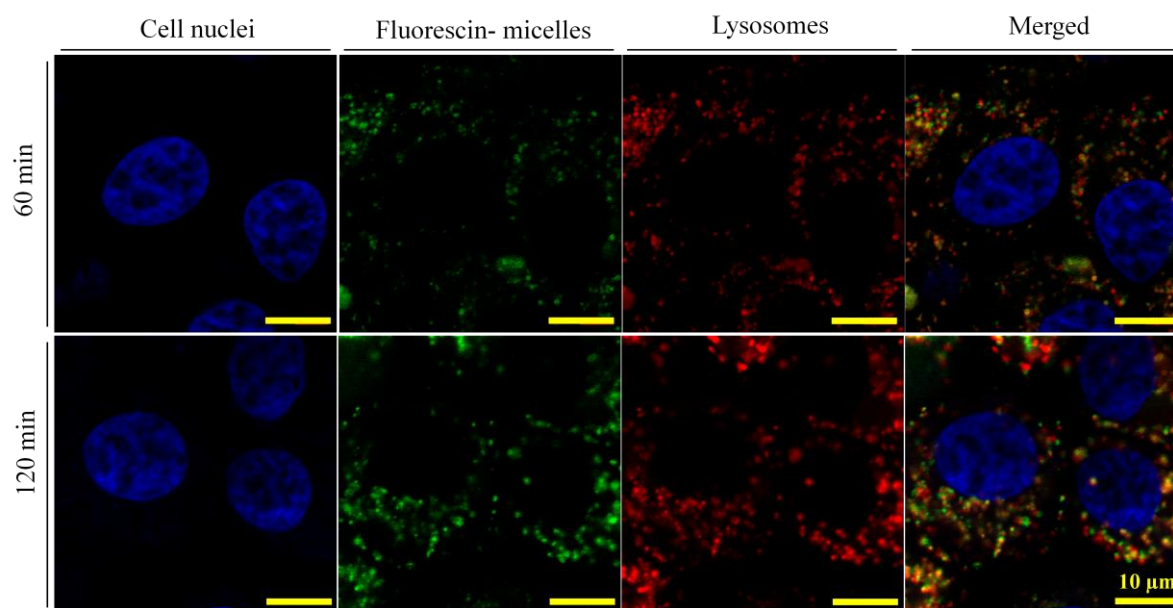
**Figure S3.** Hydrodynamic diameter analysis via dynamic light scattering (DLS) of copolymer PPEGMEMA-b-PMMA micelles in water at 25 °C



**Figure S4.** Hydrodynamic diameter analysis via DLS of copolymer P(PEGMEMA-*co*-MAA)-*b*-PMMA (A) uncrosslinked in water, (B) uncrosslinked in DMF, (C) crosslinked in water and (D) crosslinked in DMF



1000 × Magnification



2000 × Magnification

**Figure S5.** Confocal microphotographs of OVCAR-3 cells after incubated with micelles at 37 °C for 30 min and 2 hrs. Polymeric micelles (Green) were labelled with fluorescein. Cell nuclei (Blue) were stained with Hoechst 33342; Lysosomes (Red) were stained with LysoTracker Red DND-99. Scale bar = 10 μm (top) and 20 μm (bottom).