

Supporting Information to

Polymerization-Induced Self-Assembly (PISA) -Control over the

Morphology of ^{19}F -containing Polymeric Nano-objects for Cell

Uptake and Tracking

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Table S1. T_1 and T_2 relaxation times in water of poly(OEGA-*co*-TFEA) with different fluorine contents at a polymer concentration of 20 mg mL⁻¹ at 25 °C.

Entry	[OEGA] ₀ :[TFEA] ₀ feed ratio	¹⁹ F content (wt.%)	T_1 (ms)	T_2 (ms)
1	5:1	2.22	550.6	209.2
2	4:1	2.68	534.6	183.0
3	3:1	3.6	516.3	158.2
4	2:1	5.09	504.2	136.7
5	1:1	8.75	436.8	70.5
6	1:2	13.91	414.7	26.4

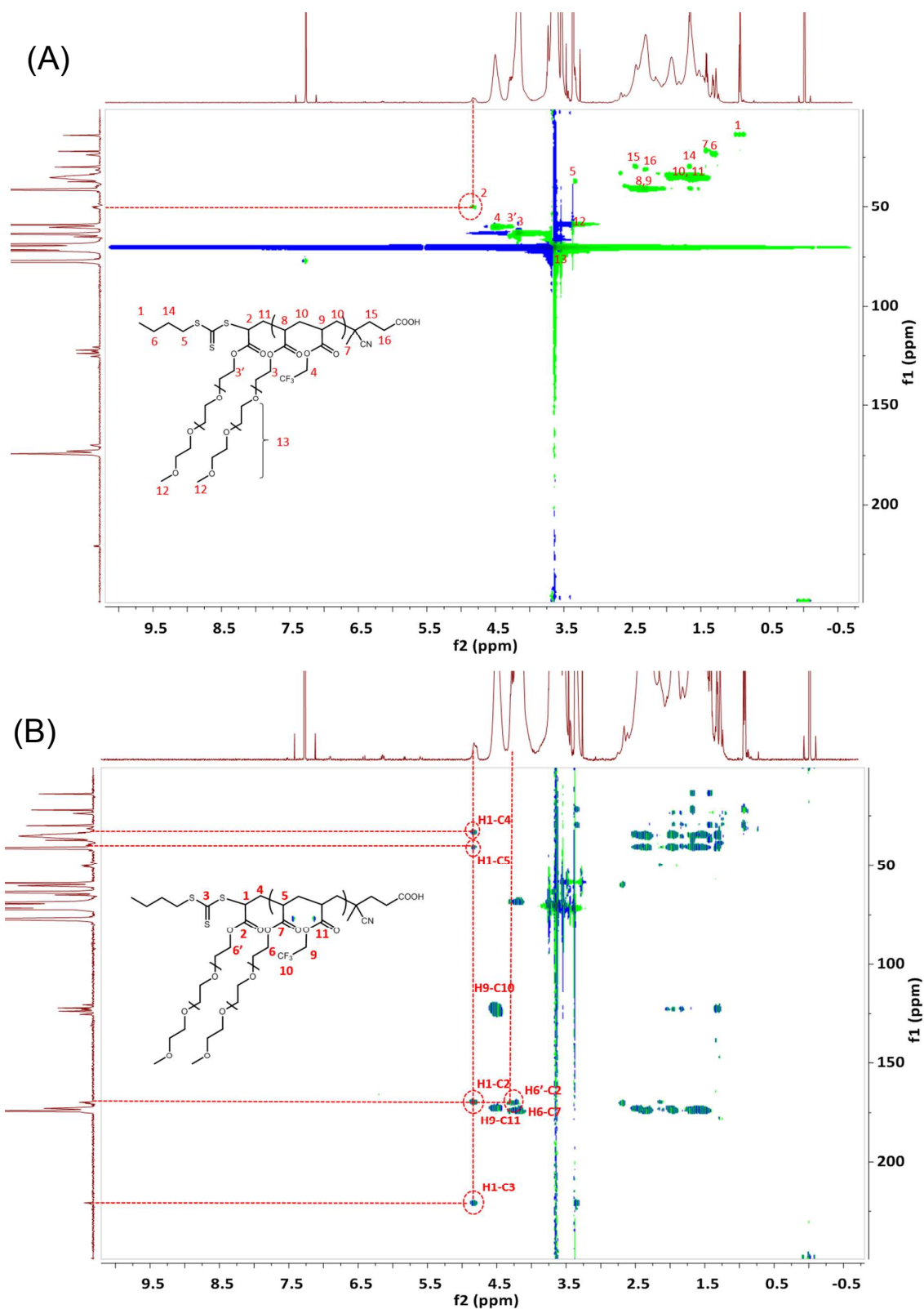


Figure S1. (A) ^1H - ^{13}C HSQC spectrum and (B) ^1H - ^{13}C HMBC spectrum of poly((OEGA-*co*-TFEA) macro CTA in CDCl_3 . The red circles highlight the correlations that are related to trithiocarbonate group and its neighboring carbon and proton.

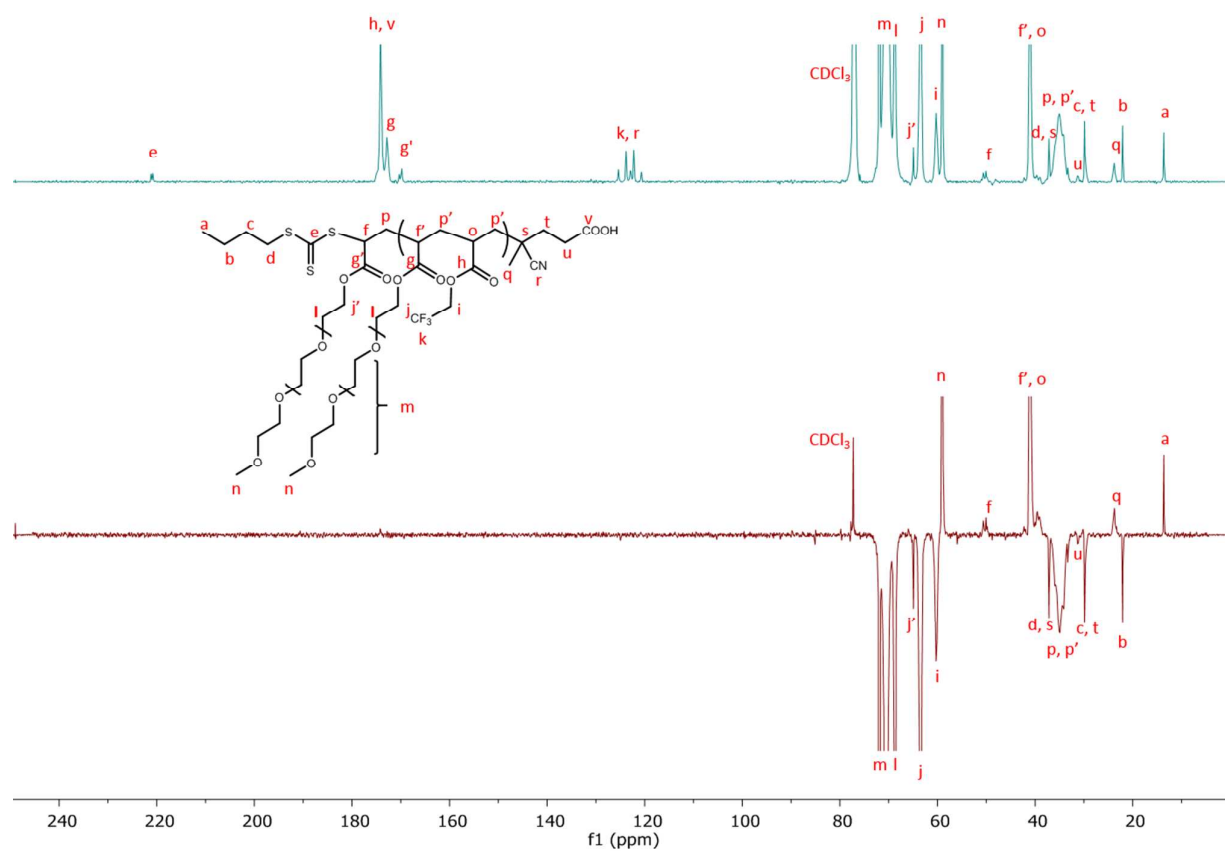


Figure S2. DEPT-135 ^{13}C NMR spectrum of poly(PEGA-*co*-TFEA) macro CTA in CDCl_3 .

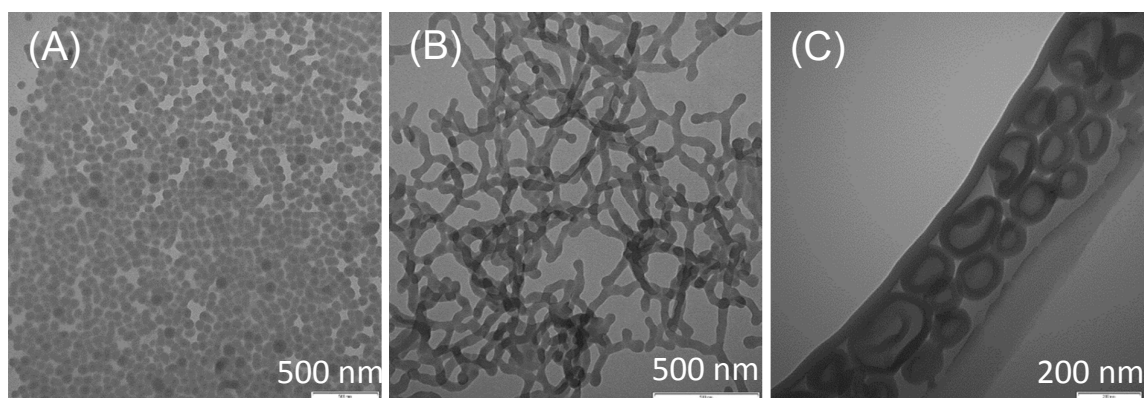


Figure S3. TEM images of nano-objects prepared with different polymerization times after conjugation with Cy5.5 dye: (A) 3h, (B) 5h and (C) 7h.