

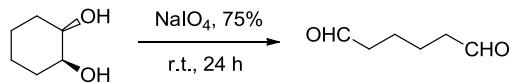
Supplementary Material

Graft Copolymers with Polyamide Backbones via Combination of Passerini Multi-component Polymerization and Controlled Chain-growth Polymerization

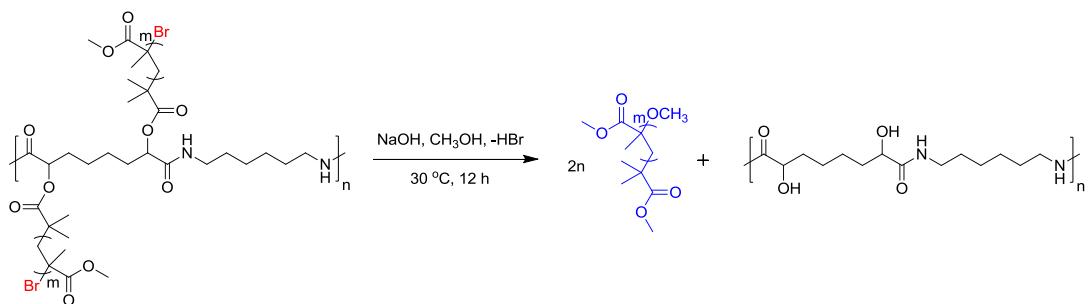
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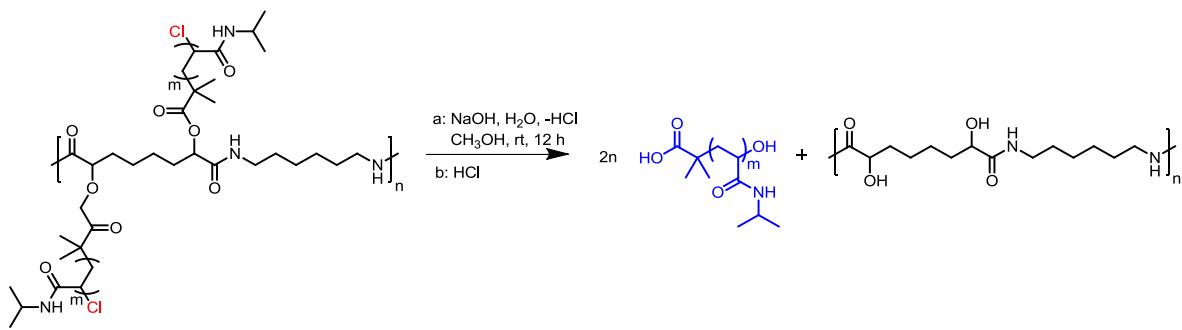
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Scheme S1. Synthesis of hexane-1, 6-dial.



Scheme S2. Methanolysis of PA-g-PMMA.



Scheme S3. Hydrolysis of **PA-g-PNIPAM**.

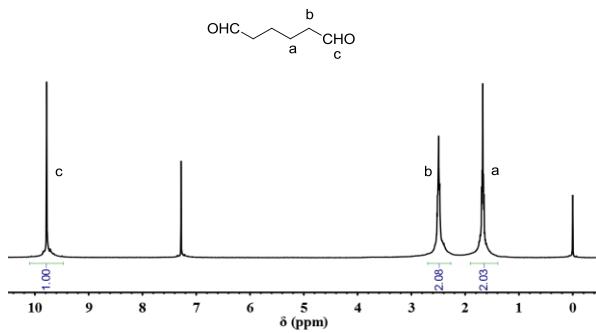


Figure S1. ^1H NMR spectrum of hexane-1, 6-dial.

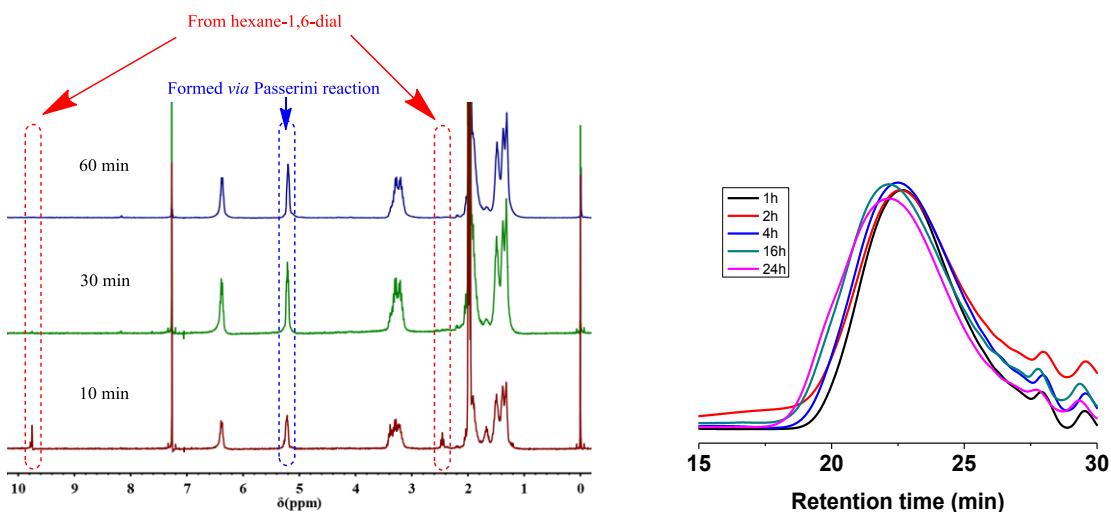


Figure S2. Kinetic study of the backbone formation.

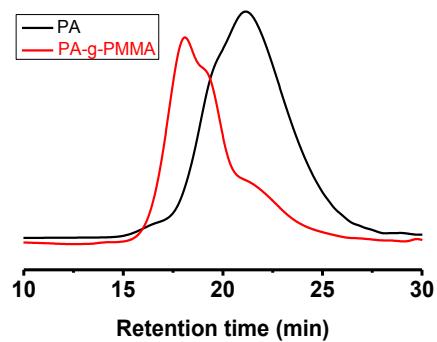


Figure S3. GPC traces of **PA-1** and **PA-g-PMMA_{2h}** (Mn: 43.7 kDa, PDI: 1.79).

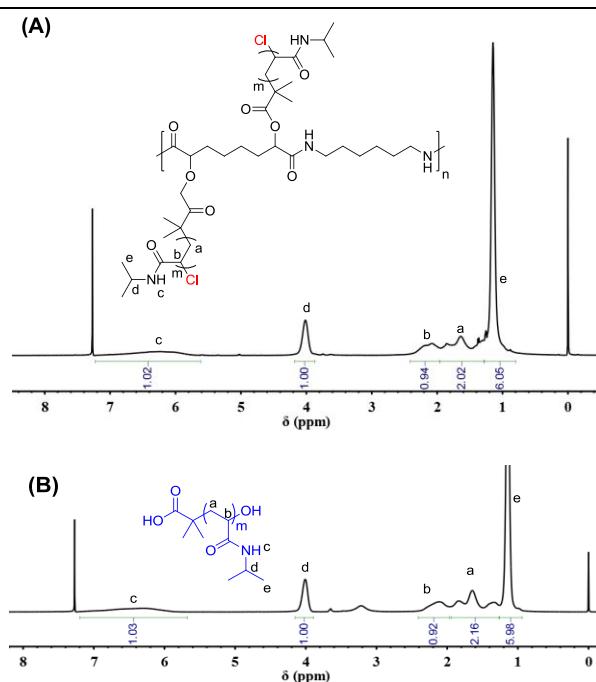
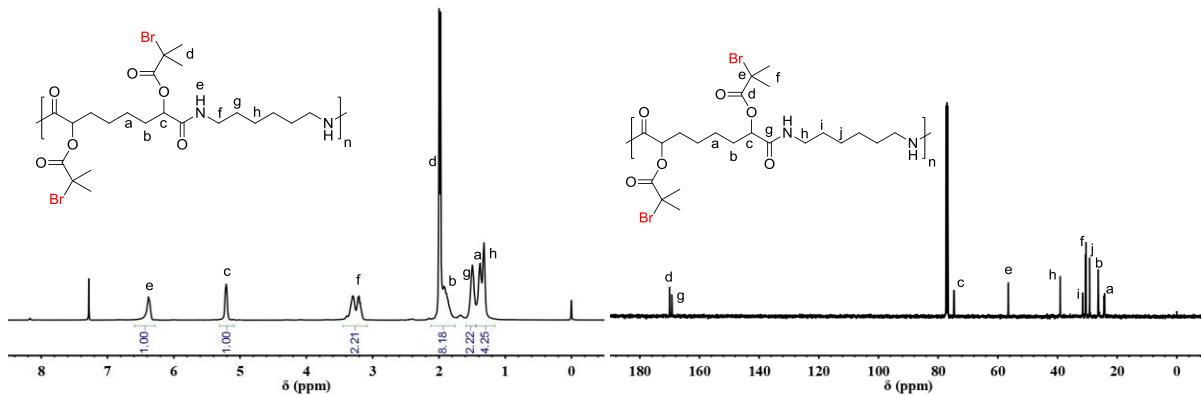


Figure S5. ¹H NMR spectra of **PA-g-PNIPAM'** (A) and **PNIPAM'** (B).

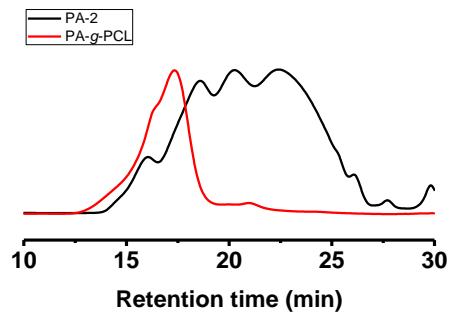


Figure S6. GPC traces of **PA-2** and **PA-g-PCL**.
