Supporting Information for

Intramolecular Cyclization of Long-chain Hyperbranched Polymers (HyperMacs) from A_2+B_n Step-wise Polymerization

Qingfu Ban and Jie Kong*

MOE Key Laboratory of Space Applied Physics and Chemistry, Shaanxi Key Laboratory of Macromolecular Science and Technology, School of Science, Northwestern Polytechnical University, Xi'an, 710072, P. R. China

*Corresponding Author

E-mail Address: kongjie@nwpu.edu.cn (J.K.); Telephone (fax): +86-29-88431621
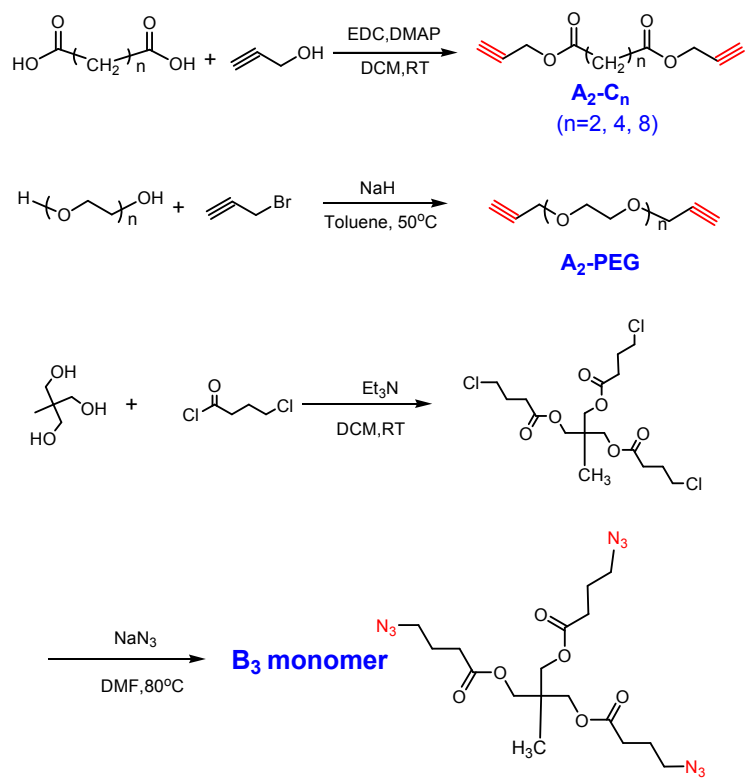
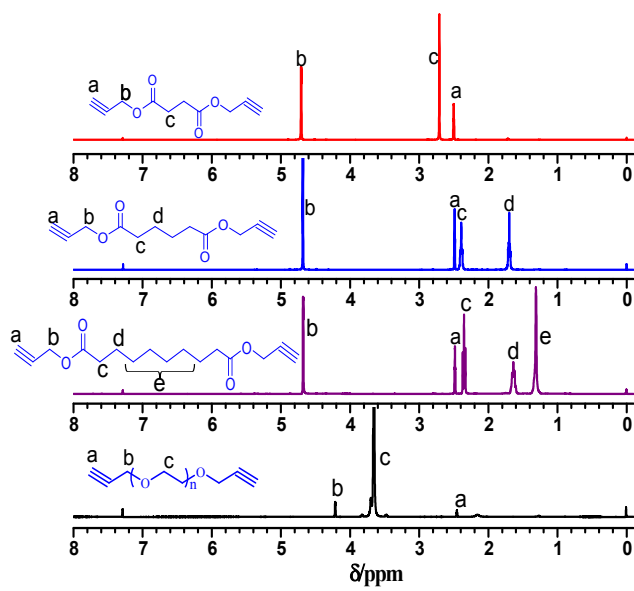**Figure S1** Schematic synthesis of A_2-C_n (n=2, 4, 8), A_2-PEG and B_3 monomers

Figure S2 ^{1}H NMR of A_2-C_2, A_2-C_4, A_2-C_8 and A_2-PEG monomers

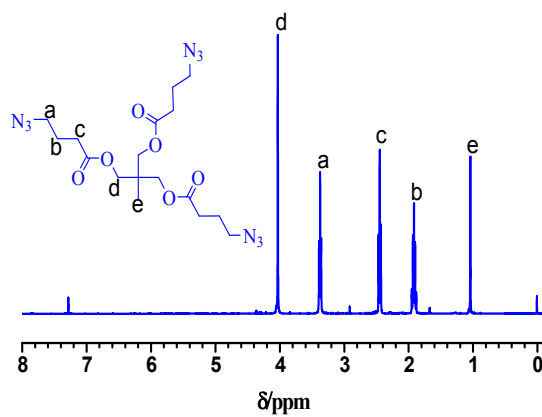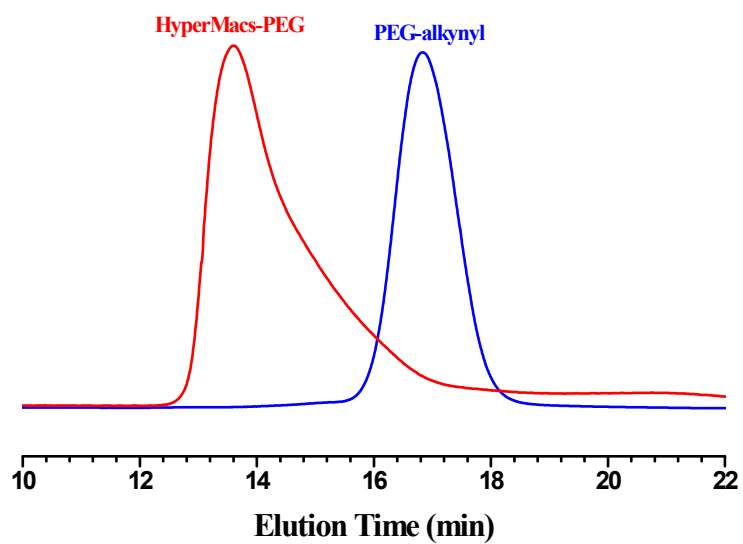**Figure S3** ^{1}H NMR of B$_3$ monomer

Figure S4 SEC-MALLS curve of HyperMacs-PEG-polytriazoles and PEG-alkynyl at a flow rate of 0.5 mL min^{-1}
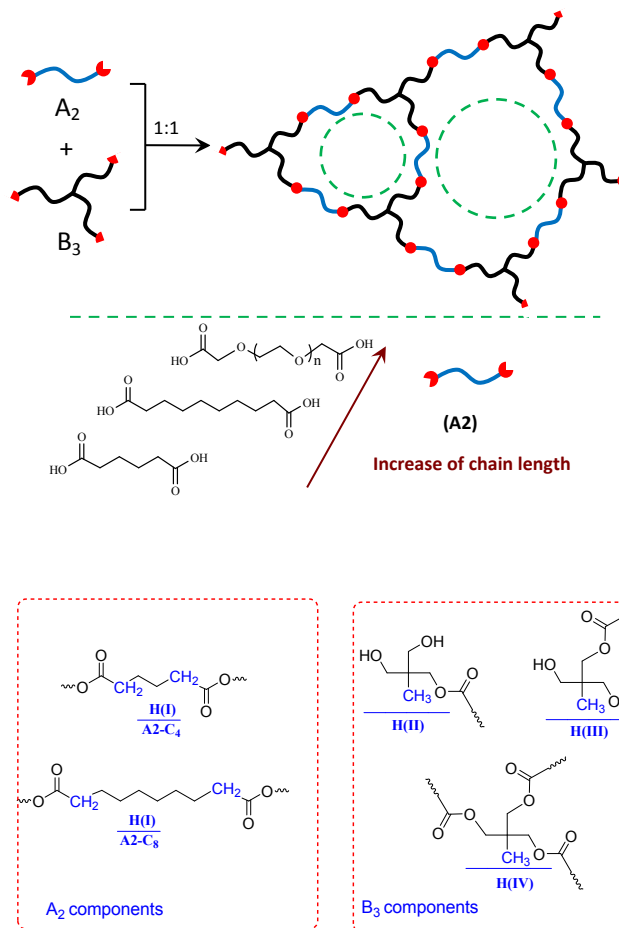
Figure S5 Component units and correspondingly characteristic atoms in HyperMacs (polyesters) from A_2+B_3 step-wise polymerization
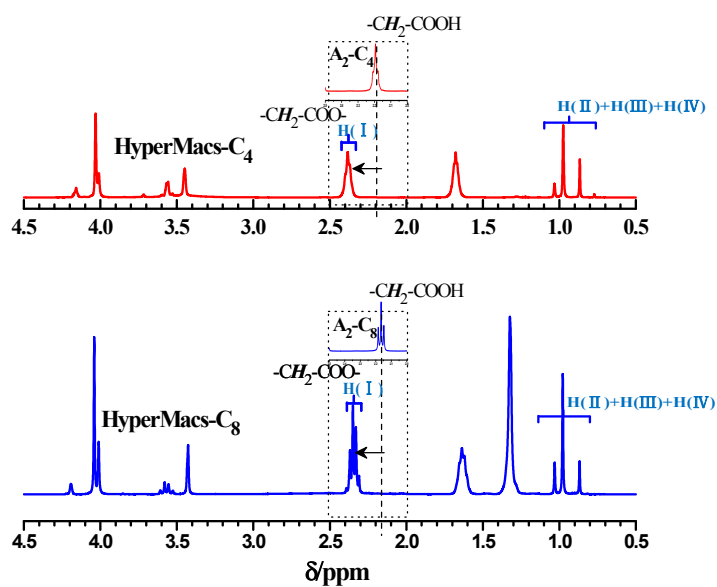
Figure S6 ^{1}H NMR spectra of HyperMacs-C$_4$ and C$_8$ (polyesters) with different chain length backbones in CDCl$_3$