

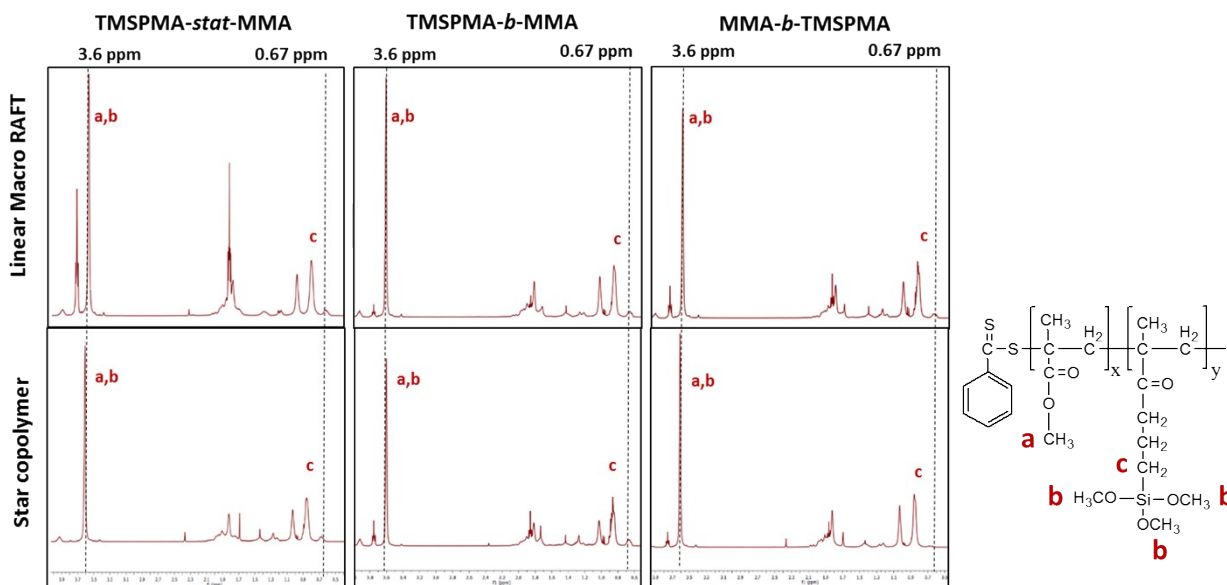
## Enzyme degradable star polymethacrylate/silica hybrid inks for 3D printing of tissue scaffolds

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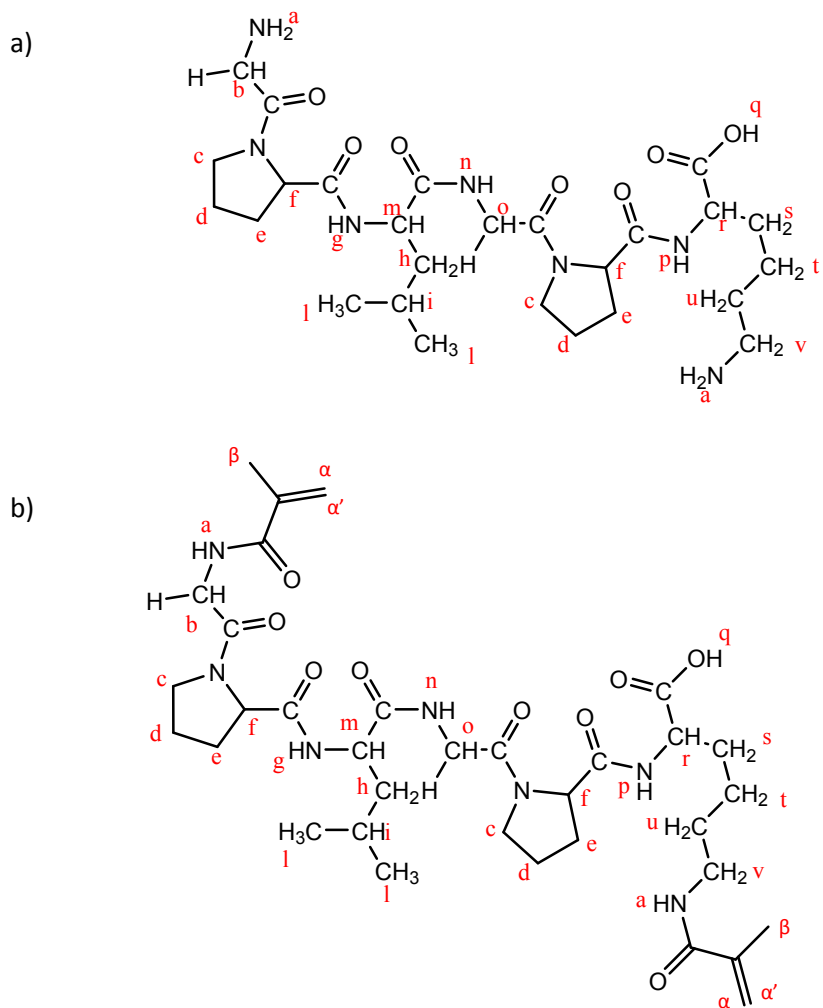
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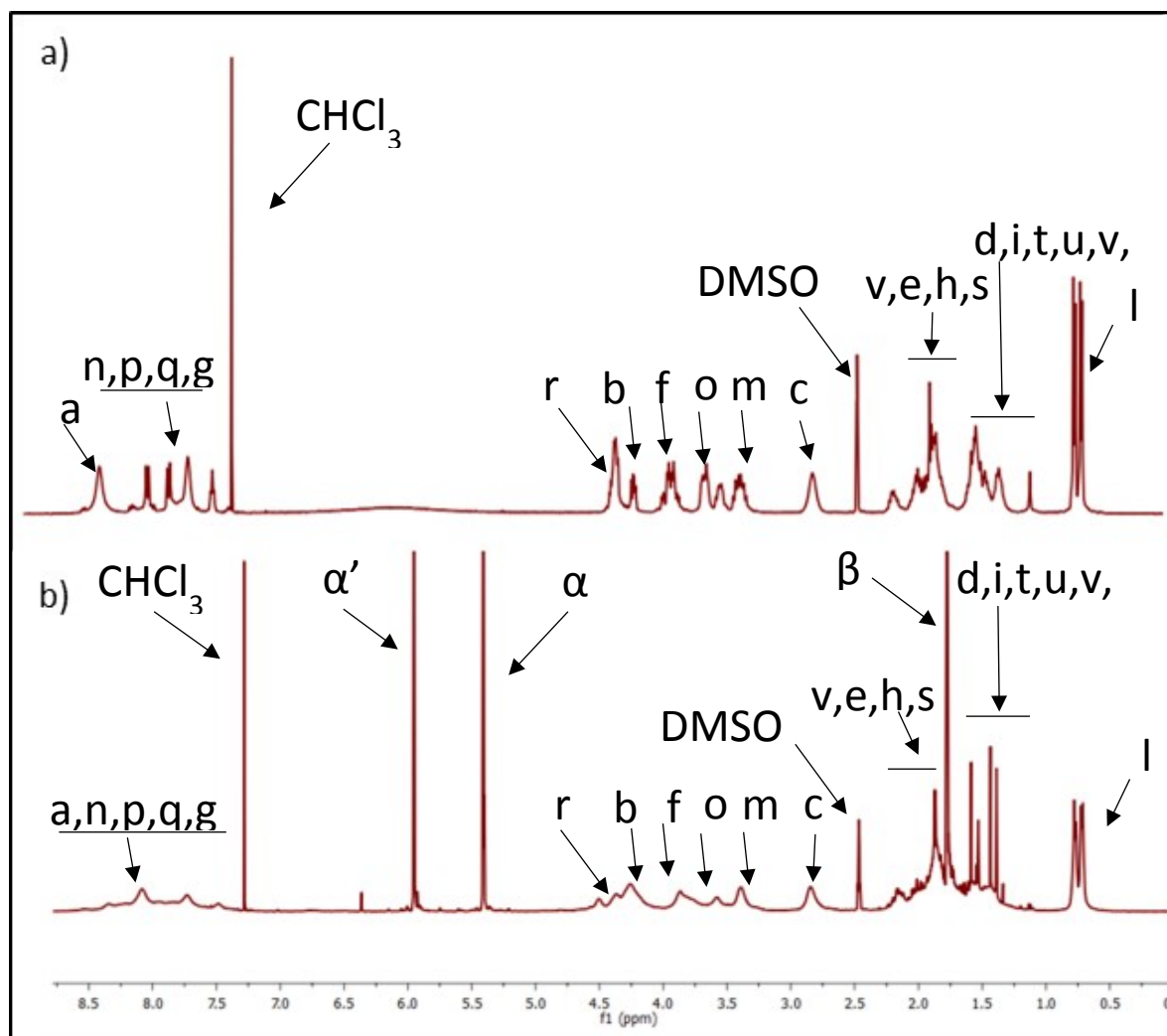
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**Figure S1.** <sup>1</sup>H NMR characterization of poly(MMA-*b*-TMSPMA), poly(TMSPMA-*b*-MMA) and poly(MMA-*stat*-TMSPMA) linear arms (top spectra) and corresponding star copolymers (bottom spectra). The comparison of the peaks at 3.6 ppm (methoxy group, a&b) and 0.67 ppm (Si-CH<sub>2</sub>-, c) confirmed that the molar ratios were close to our targeted value (9 mol % of TMSPMA).



**Scheme S1.** Chemical structures of: (a) the starting di-amino ended peptide ({GLY}{PRO}{LEU}{GLY}{PRO}{LYS}); and (b) MaCh-peptide.



**Figure S2.**  $^1\text{H}$  NMR spectra of starting peptide (a) in  $\text{CDCl}_3/\text{DMSO}$  and of MaCh-peptide (b) in  $\text{CDCl}_3$ .