

Supplementary Figure 1: Synthesis scheme for TEC-OD-DMI



Supplementary Figure 2: Synthesis scheme for DMI-OD-TEC



Supplementary Figure 3: Synthesis scheme for ITA-OD



Supplementary Figure 4. New bioelastomers exhibit no measurable cytotoxicity on cardiac fibroblasts. A) Indirect cytotoxicity test of the photocrosslinked bioelastomers (N=3, n=4) (p>0.05); B) Representative crystal violet images of CFs after exposure to the material extracts showing no significant morphological changes of CFs. Scale bar (200 µm)

Supplementary Movie 1: Formation and beating of cardiac tissue around the microtube after 7 days in culture.