

Supplementary Materials

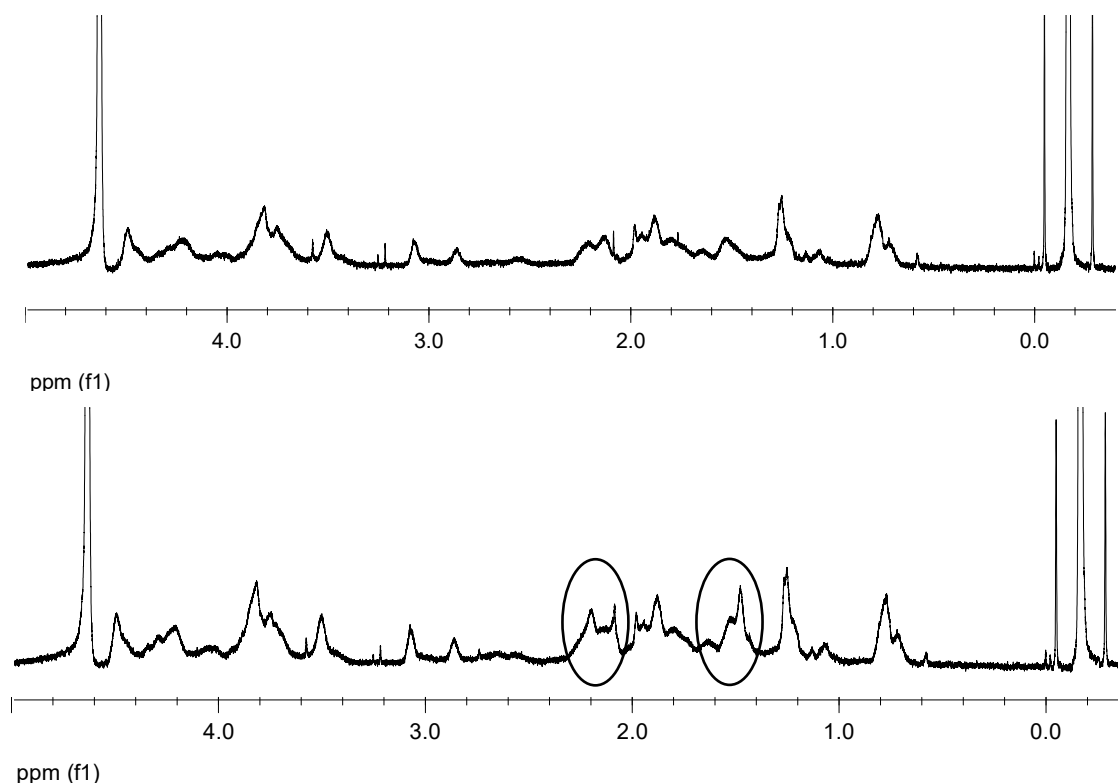


Figure SI-1. ^1H -NMR spectrum of native gelatin (upper spectrum) and hydrazide functionalized gelatin (lower figure). Marked areas highlight signals appearing after the functionalization with hydrazide groups.

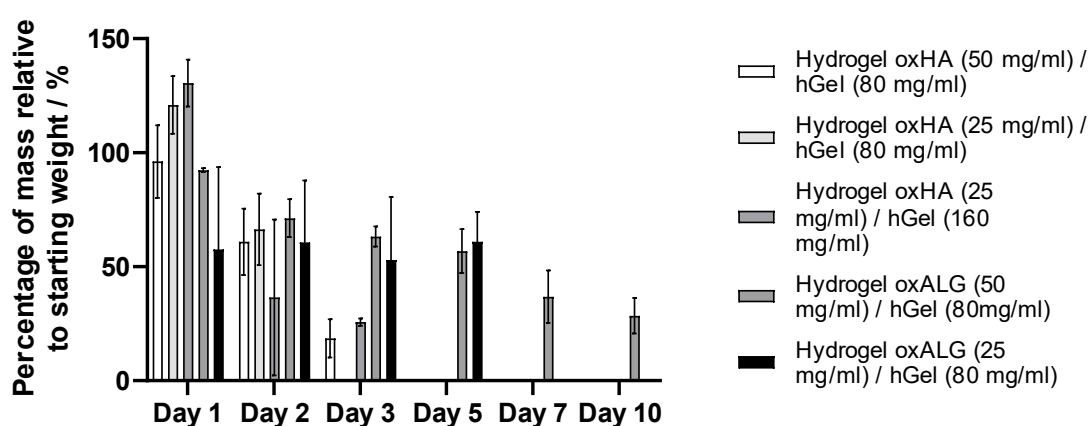
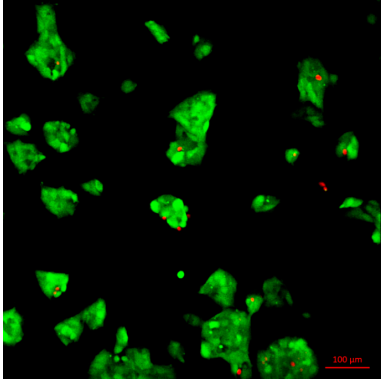
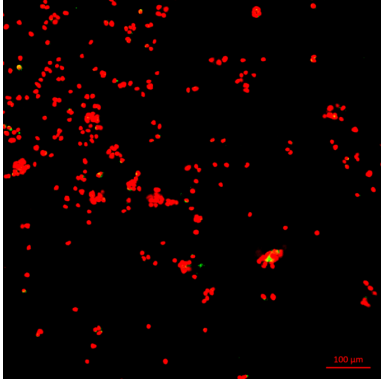
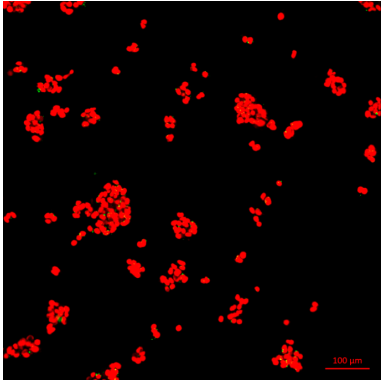
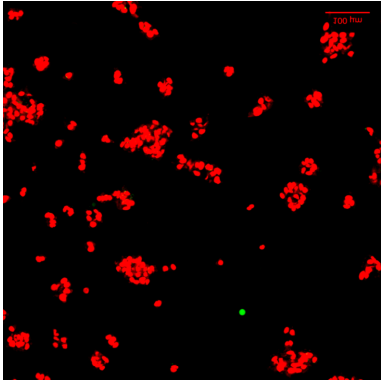


Figure SI-2. Degradation study of hydrogels composed of either oxHA or oxALG and hGel of different concentrations. $n = 3$.

(a)

Medium: EMEM	Medium: EMEM + hGel (160 mg/mL)
	
Medium: EMEM + oxALG (50 mg/mL)	Medium: EMEM + oxHA (50 mg/mL)
	

(b)

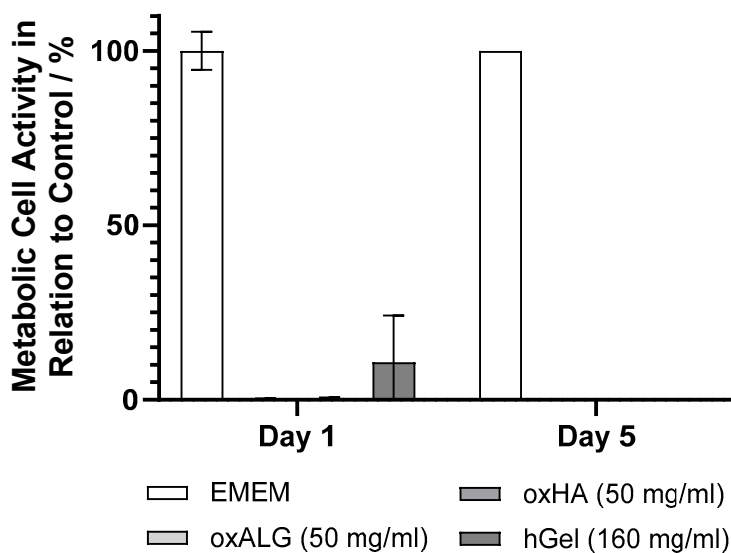


Figure SI-3. (a) Confocal microscopy pictures of HepG2 cells incubated in EMEM culture medium containing the individual components of the hydrogel. Photos were taken after 24 hours of incubation. (b) Q-Blue viability assay evaluation of HepG2 cells incubated in the individual hydrogel components with pure EMEM as control. Incubation time 1 and 5 days.