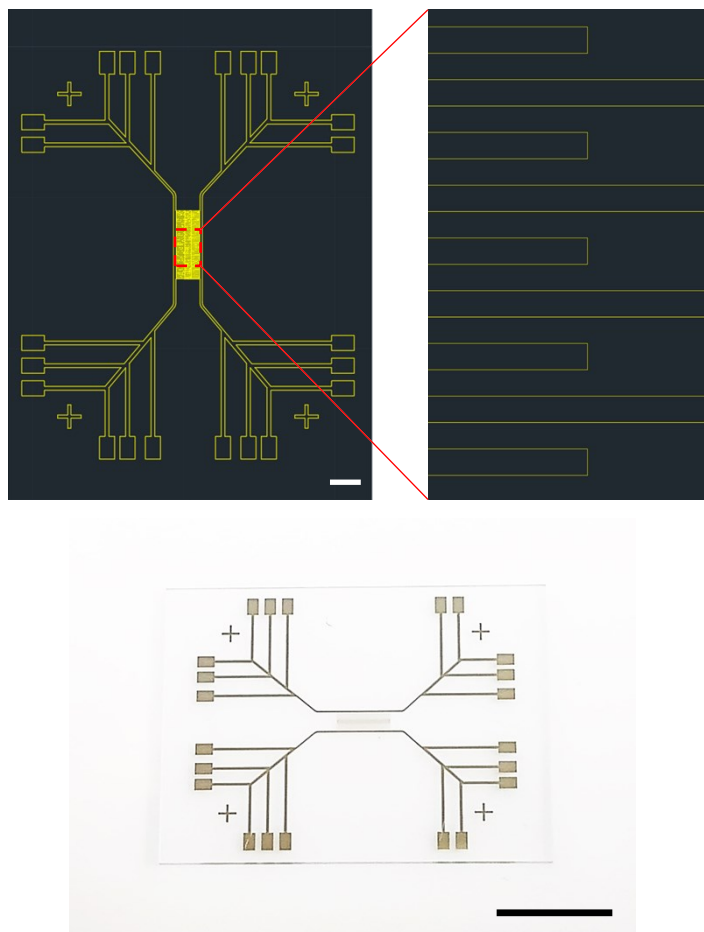
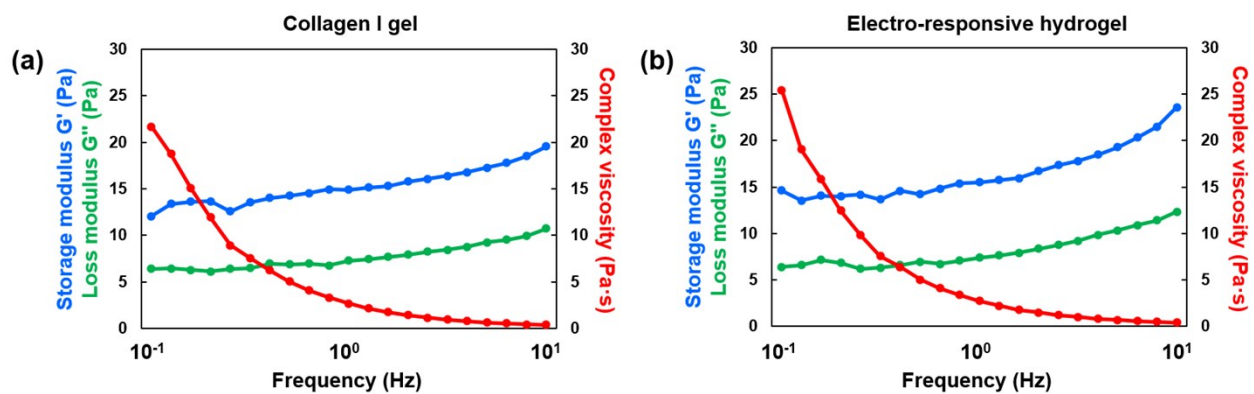


## Supporting information



**Fig. S1.** Cr/Au patterned glass slide. Scale bars are 2mm (top) and 1cm (bottom).



**Fig. S2.** Rheological analysis of the (a) pure collagen I gel without AgNWs and (b) electro-responsive hydrogel with AgNWs.