Photopatterning of conductive hydrogels which exhibit tissue-like properties

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SUPPLEMENTAL INFORMATION

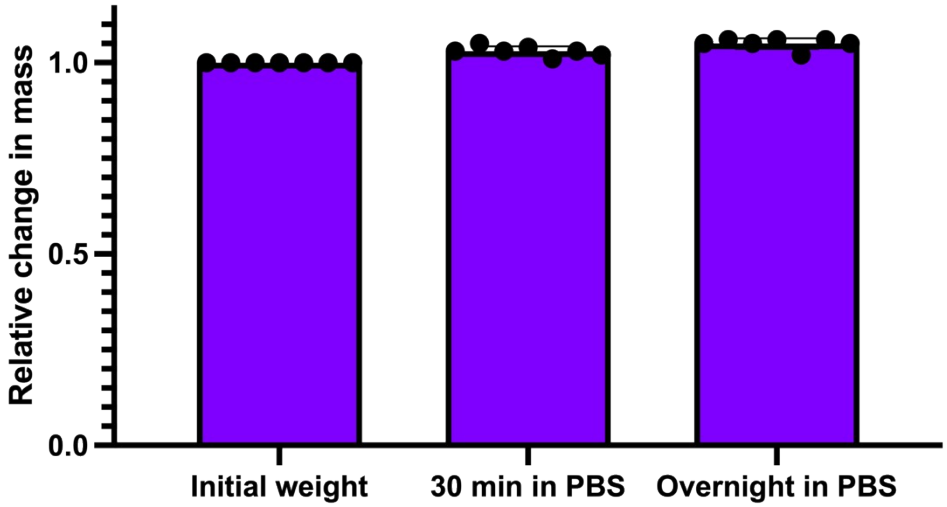

Figure S1: Evaluation of conductive hydrogel stability in PBS. Assessment of relative change in hydrogel mass, immediately after formation ("initial weight"), after soaking in PBS for 30 min, and after soaking in PBS overnight.

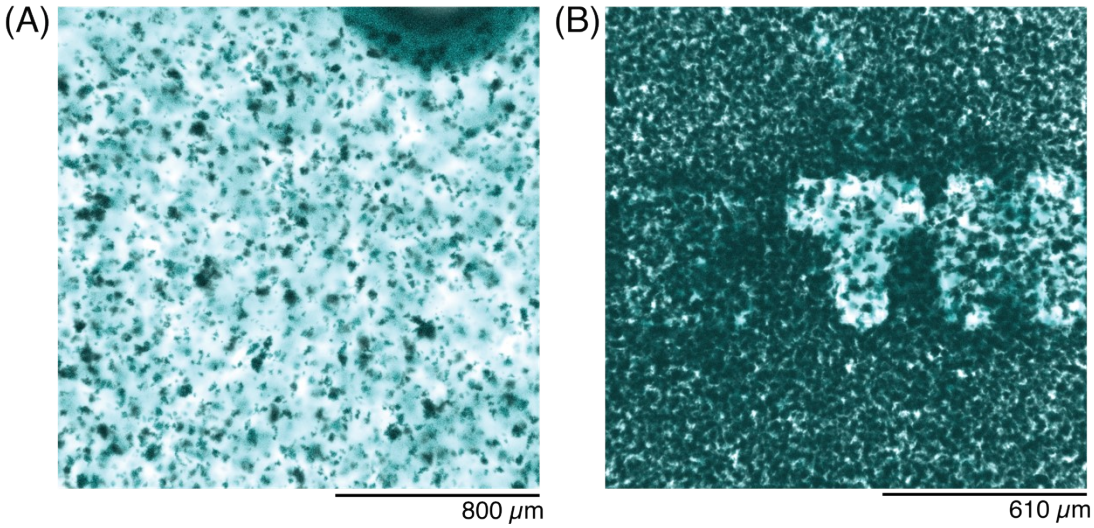

Figure S2: Photopatterning of the conductive hydrogel under the patterned light (405 nm). (A) Photomicrograph of the precursor, before exposed to conductive hydrogel composition, and (B) after ROI, the pattern(s) are ROI, is uniform in exposure to a defined visible.

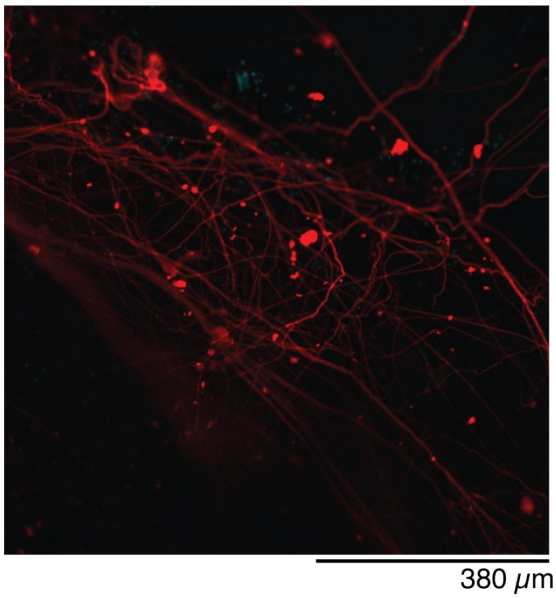

Figure S3: Evaluating the morphology of sensory neurons at DIV45 on bare GelMA hydrogels. hDRG seeded on a bare (no graphene flakes added) 5% w/v GelMA hydrogel, imaged at 30x magnification. Red: SMI312 (axon marker), green: peripherin (DRG axon sub-type), cyan: Hoechst (nucleus).