

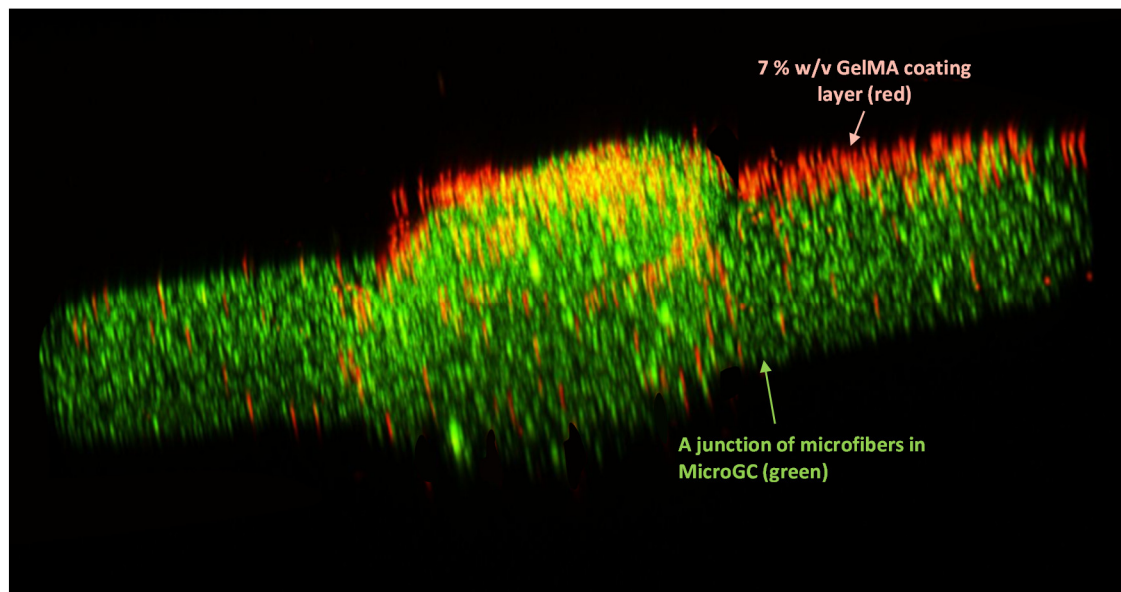
## Supporting Information

### Template-Based Fabrication of Spatially Organized 3D Bioactive Constructs Using Magnetic Low-Concentration Gelatin Methacrylate (GelMA) Microfibers

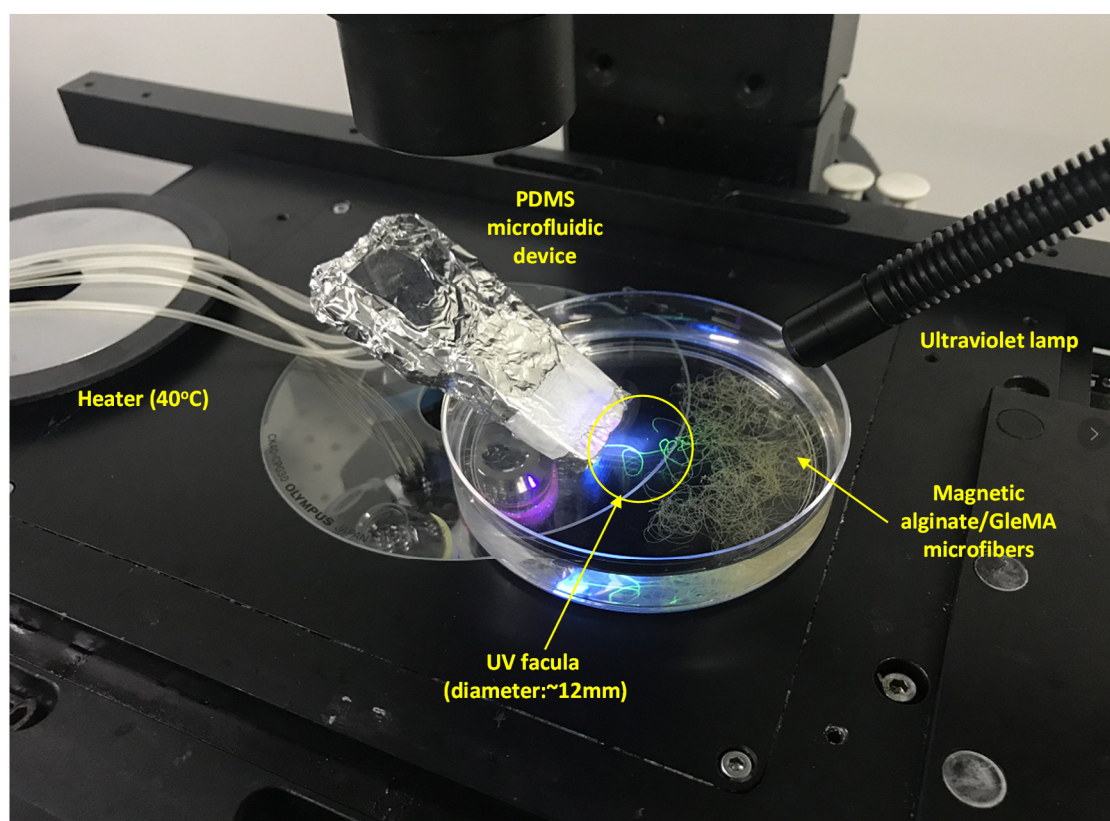
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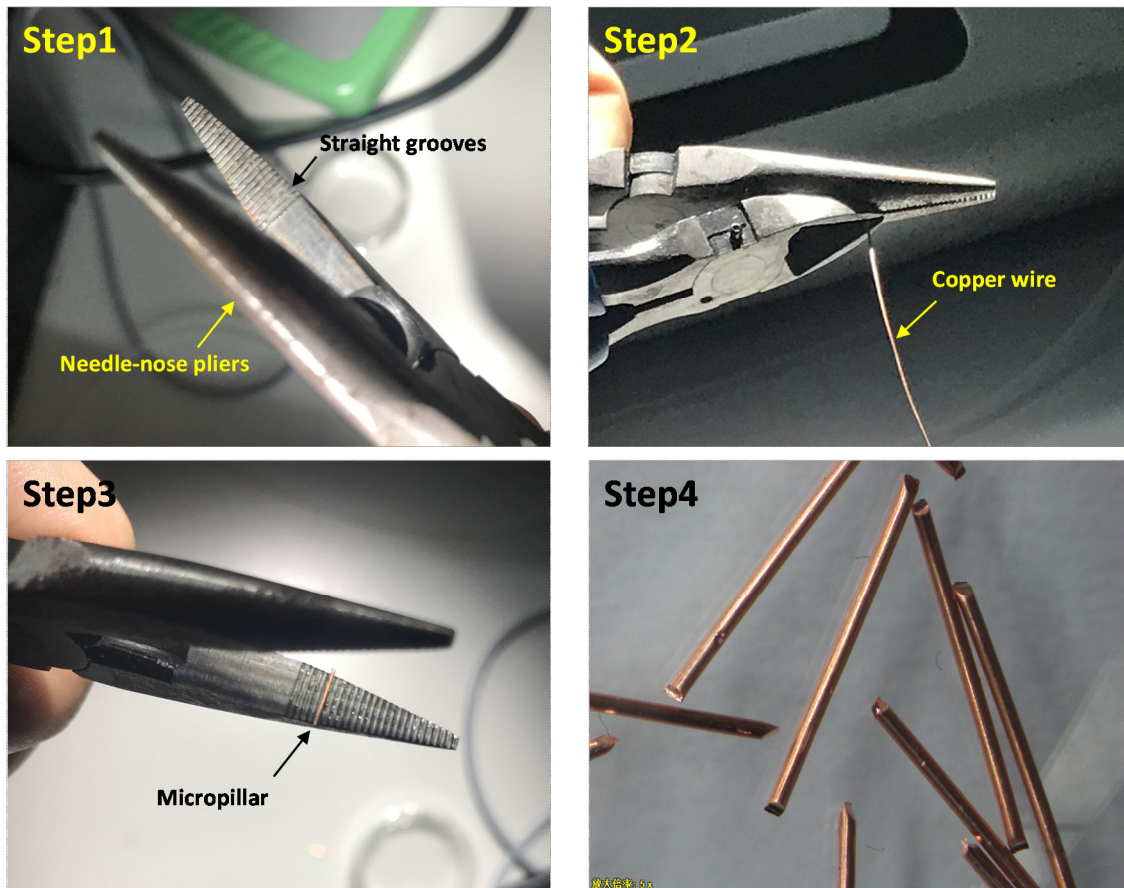
**Figure S1.** Surface tension enables the upper and lower microfibers to directly contact where they crossed.



**Figure S2.** Side view shows that thin and sparse coating layer (containing red fluorescence beads) only existed on the upper surface of the assembled structure (containing green fluorescence beads).

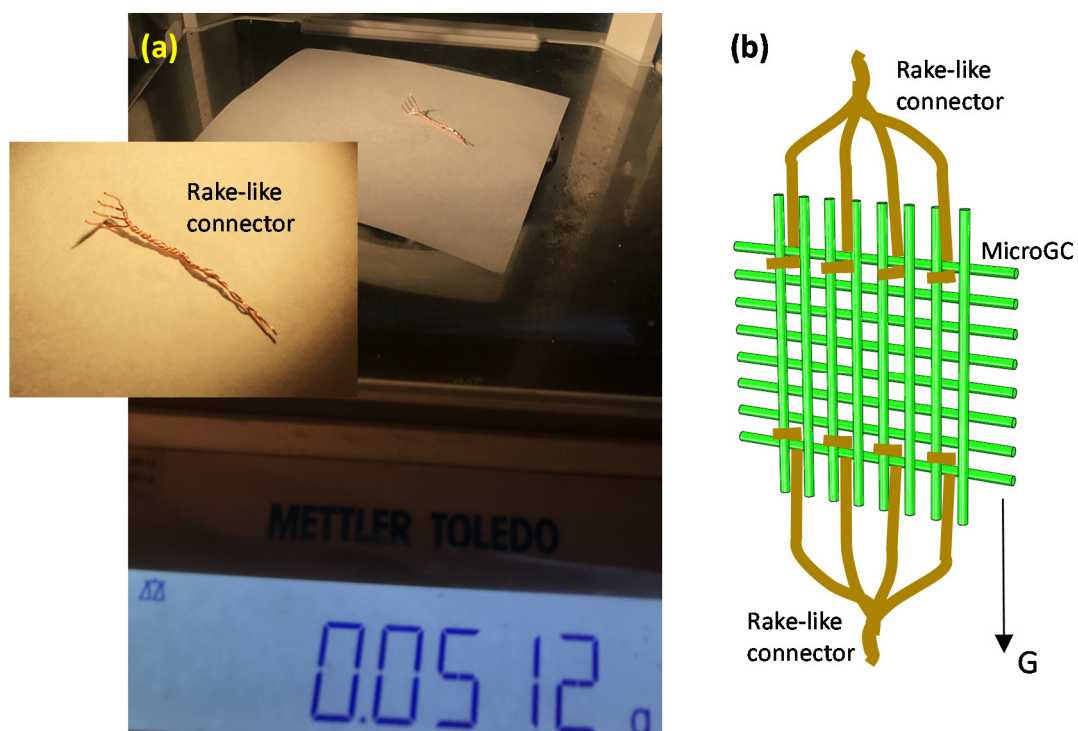


**Figure S3.** Microfluidic spinning system. Because of the encapsulation of green fluorescent quantum dots, the green microfibers was presented in the UV facula.

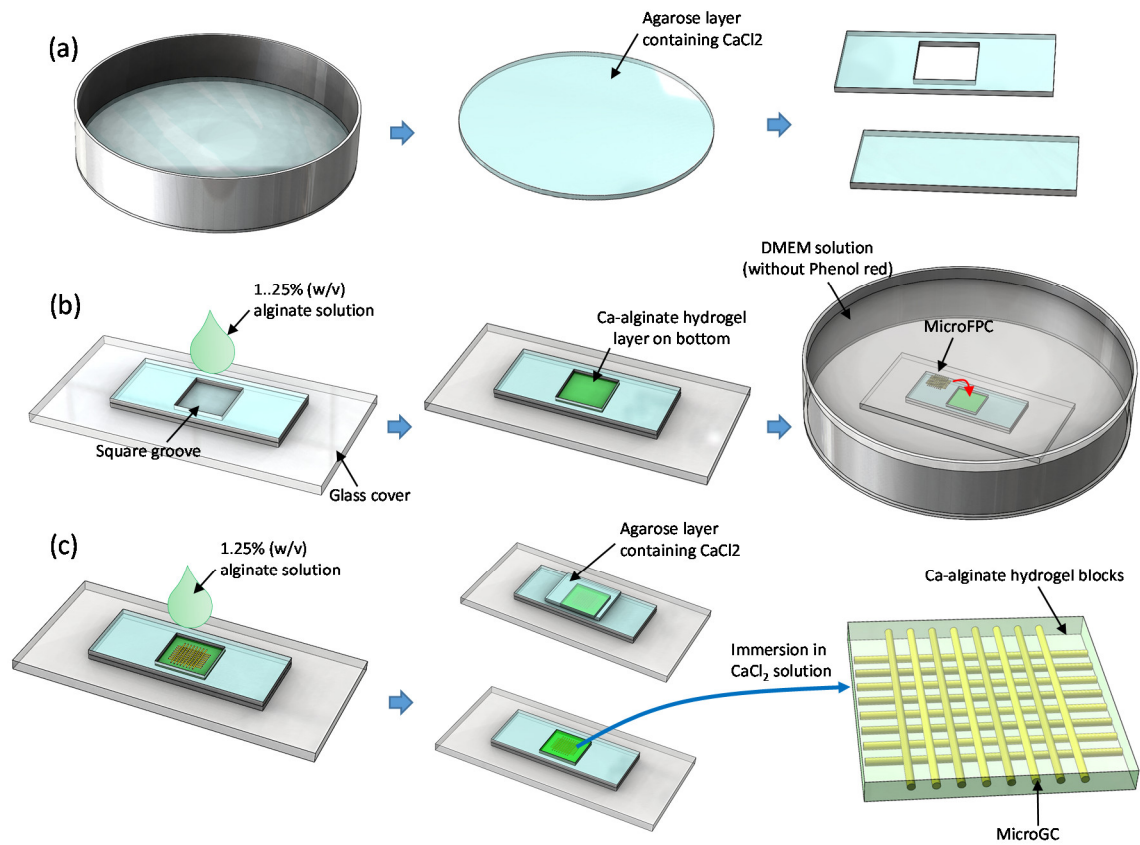


**Figure S4.** The fabrication process of micropillars





**Figure S5.** (a) Rake-like connector with weight of 0.05g. (b) Schematic of enabling a weight to be hung on the microGC by using two rake-like connectors.



**Figure S6.** The fabrication process of sandwiched construct.