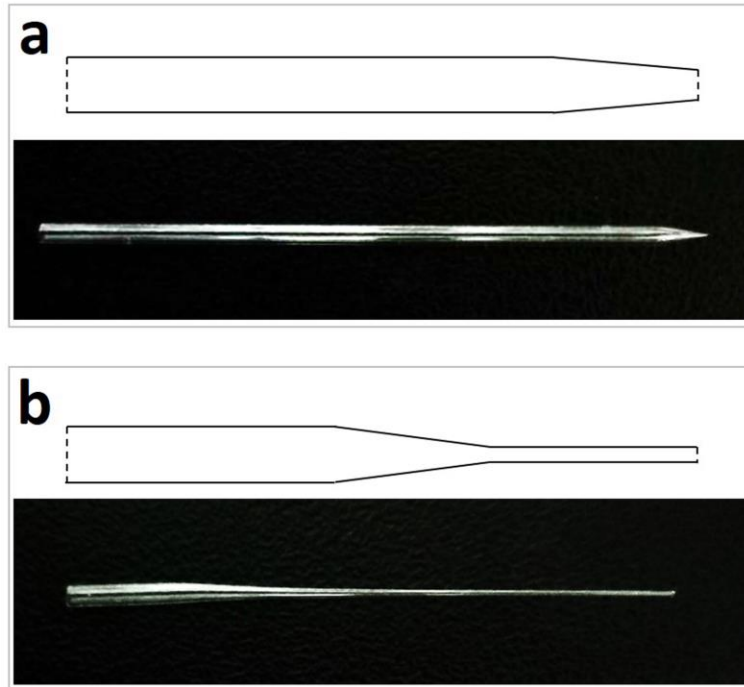


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Design of capillary microfluidics for spinning cell-laden microfibers

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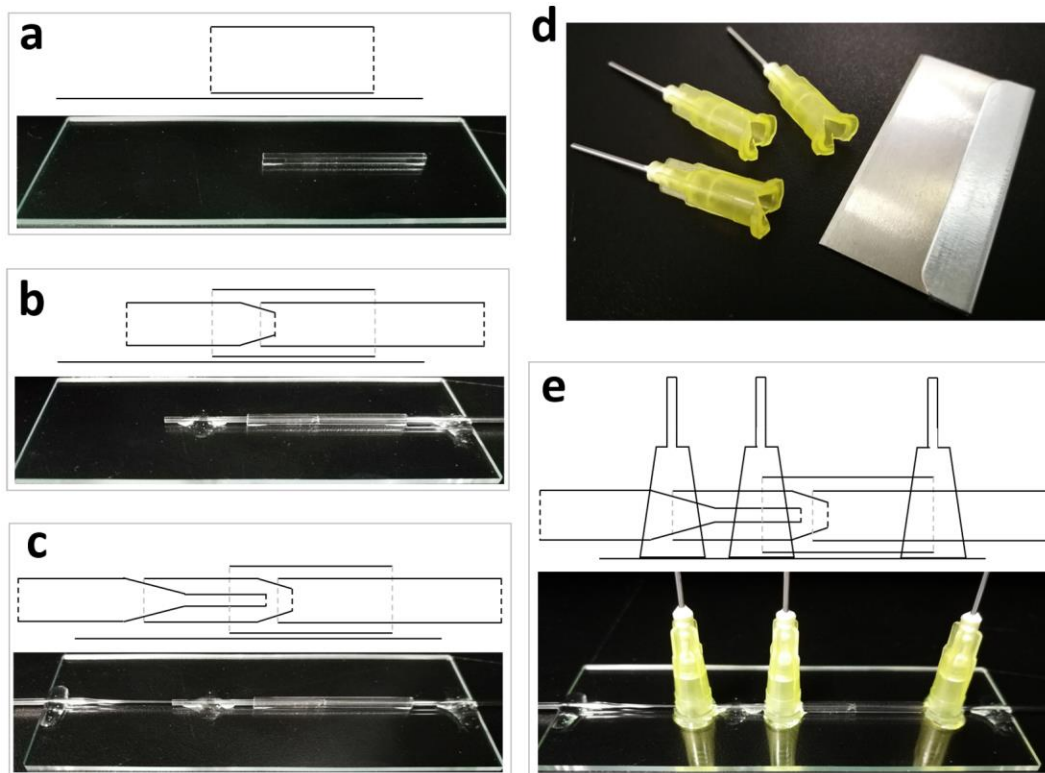
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Supplementary Figure 1

Schematic illustration and digital photographs of the tapered capillaries.

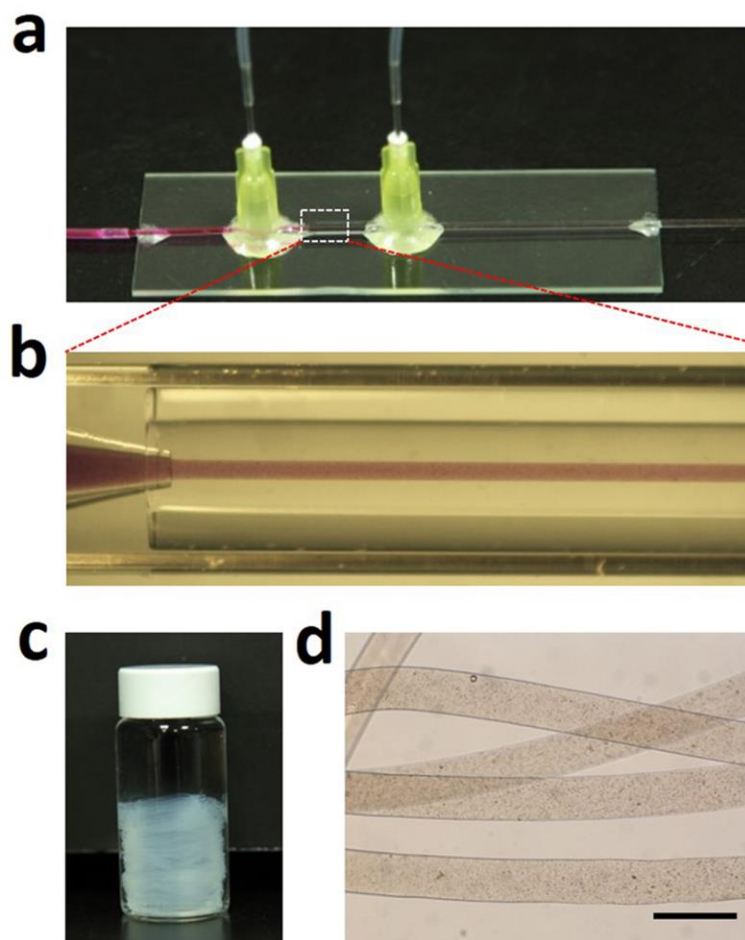
Schematic and digital photographs of the tapered capillary with a (a) tapered tip and (b) spindle tip.



Supplementary Figure 2

Close-up images of the capillary assembly procedure.

(a) Immobilize the square capillary on the glass slide; (b) Assemble the injection and collection capillaries inside the square capillary with epoxy resin; (c) Insert the spindle injection capillary inside the origin injection channel with epoxy resin; (d) Cut the needles with small crevices at the bottom, and make their sizes match with that of the capillaries; (e) Coat the bottom margin of the needles with a thin layer of epoxy resin, and stand them onto the junctions of the capillaries. The upper of the (a-c, e) images are the corresponding scheme illustrations.



Supplementary Figure 3

Images of the simple microfluidic device, the spinning process and the produced simple microfiber.

(a) Digital photograph of the simple microfluidic device; (b) The microstructure of the device during the simple microfiber spinning; (c) Digital image of the continuous simple microfiber in a vessel; (d) Microscopic image of the generated cylindrical microfiber. Adapted with permission from ref 48. Copyright 2014 John Wiley & Sons. The scale bar is 200 μ m.