

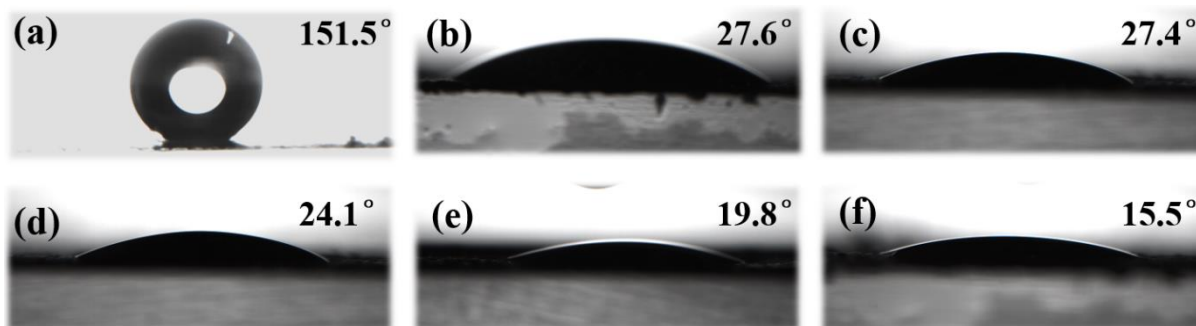
## Supporting Information

### Droplet microarray on patterned butterfly wing surfaces for cell spheroid culture

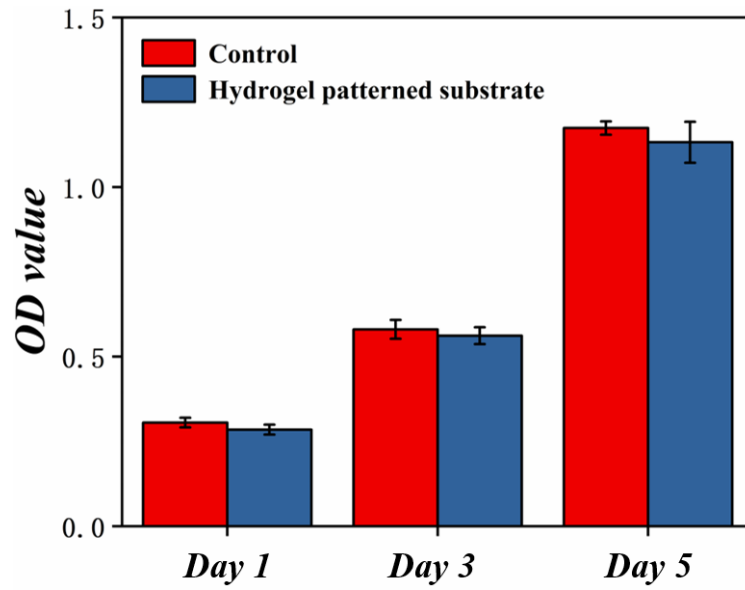
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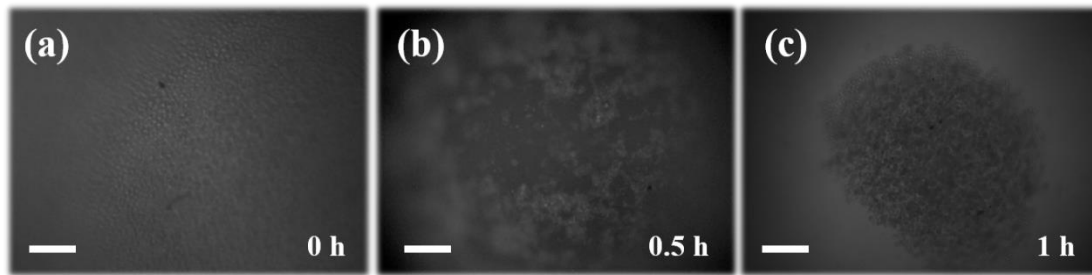
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**Figure S1.** (a) Water-contact-angle measurements for the natural wing; (b-f) PEGDA-covered wing with PEGDA hydrogel concentration of 10%、20%、30%、40% and 50%, respectively.



**Figure S2.** The biocompatibility of the hydrogel patterned substrate.



**Figure S3. (a-c)** Human hepatocarcinoma cell (HepG2) aggregation process in one droplet hanging on the hydrogel pattern after 0, 0.5, and 1 hour respectively. The scale bars in a-c are 100  $\mu\text{m}$ .