Figure S1. Chemical reactions of hydrogel formation, related to Figure 1A.

(A) Synthesis of XG hydrogel.

(B) Synthesis of TPEG hydrogel.

(C) An additional click response was found between XG hydrogel and TPEG hydrogel during the interpenetrating process.
Figure S2. Schematic diagram of open abdomen model and different intervention approaches, related to Figure 7.
| Primer name | Sequence 5'-3' | Product length (bp) |
|-------------|----------------|---------------------|
| IL-6-F      | AGAGACTTCCAGCCAGTTGC | 140 |
| IL-6-R      | CCTCCGACTTTGTAAGTGGT  | |
| IL-1β-F     | TGTGATGAAAGACGGCACAC  | |
| IL-1β-R     | CTTCTTCTTTGGTATTGTGGG | |
| TNF-a-F     | AGACCCCTCACACTCAGATCATCTTC | |
| TNF-a-R     | CTCCGCTTTGGTGTTTGCATA  | 100 |
| IL-4-F      | CCTGCTGTCAACCTTCTG    | |
| IL-4-R      | CTCGTTTCTCGTTGGTGTTCTCT | 181 |
| IL-10-F     | GCAAAGAGAACGCGTGGAAC  | |
| IL-10-R     | GTTCGTCGGAATAGGTCCG   | 80 |
| TGF-β-F     | TGAGTGCTGTCTTTTGACG   | |
| TGF-β-R     | TGGGACTGATCCCATGGATT  | 116 |
| bFGF-F      | AAGCAGAAAGAGAGGAGTTG  | |
| bFGF-R      | CGGTAAAGTGTTGTAGTTATCCG | 132 |
| MCP-1-F     | CACGTCTAGCAAAACCACCA  | |
| MCP-1-R     | GTTGGTTGTCTTTGAGATCCAT | 113 |
| ACTIN-F     | AAGTGCGAGCTGGACATCCG  | |
| ACTIN-R     | GGGCGGTTAGATCTCTCTGC | 98 |

Table S1. Primer sequences of cytokines for qPCR detection designed by Primer Premier 5.0 software, related to Figure 8.