

Dopamine-Mediated Zwitterionic Polyelectrolyte Coated Polypropylene Hernia Mesh with Synergistic Anti-Inflammation Effects

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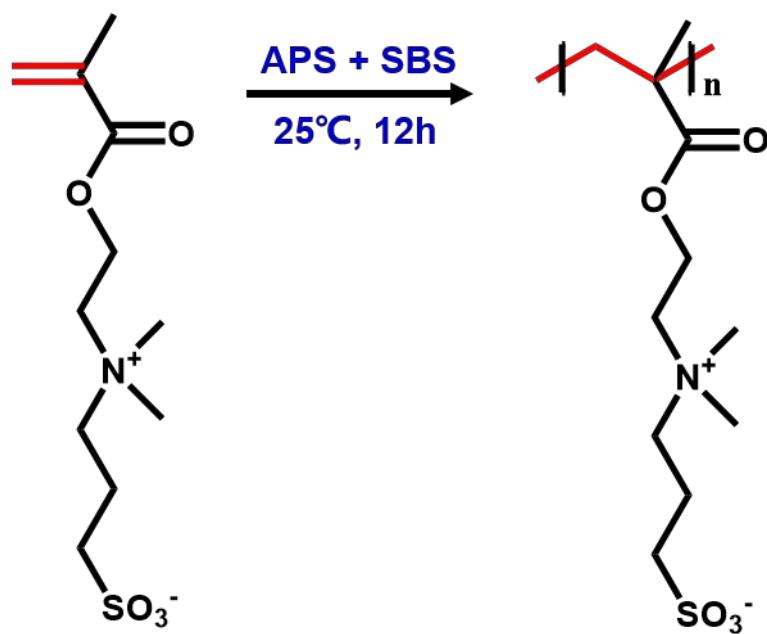
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Scheme S1. Synthetic route of PSBMA.

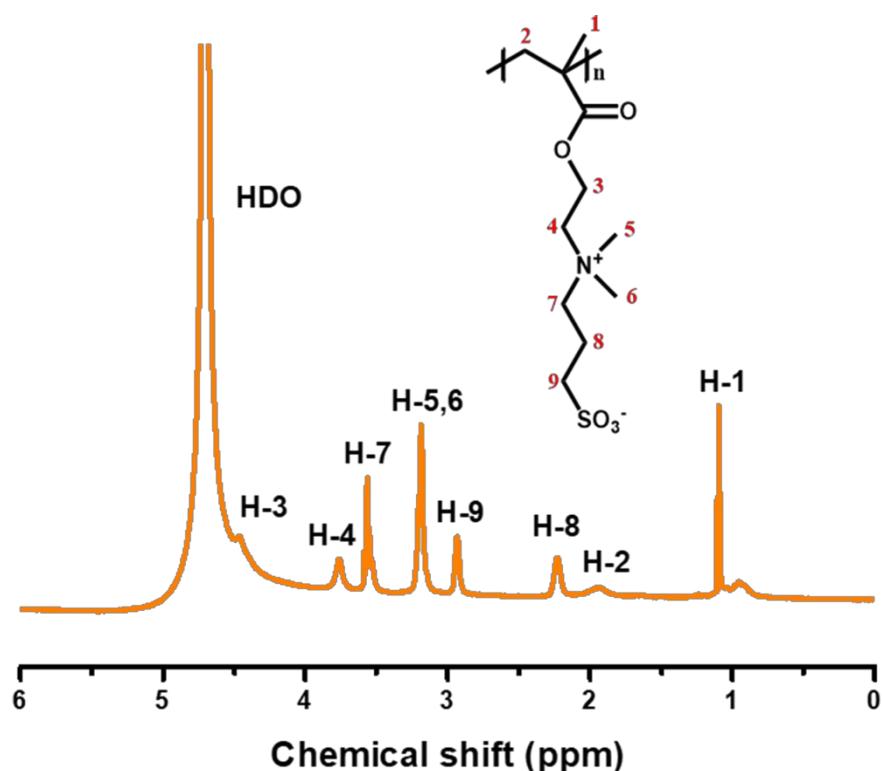


Figure S1. ^1H NMR spectrum of PSBMA.

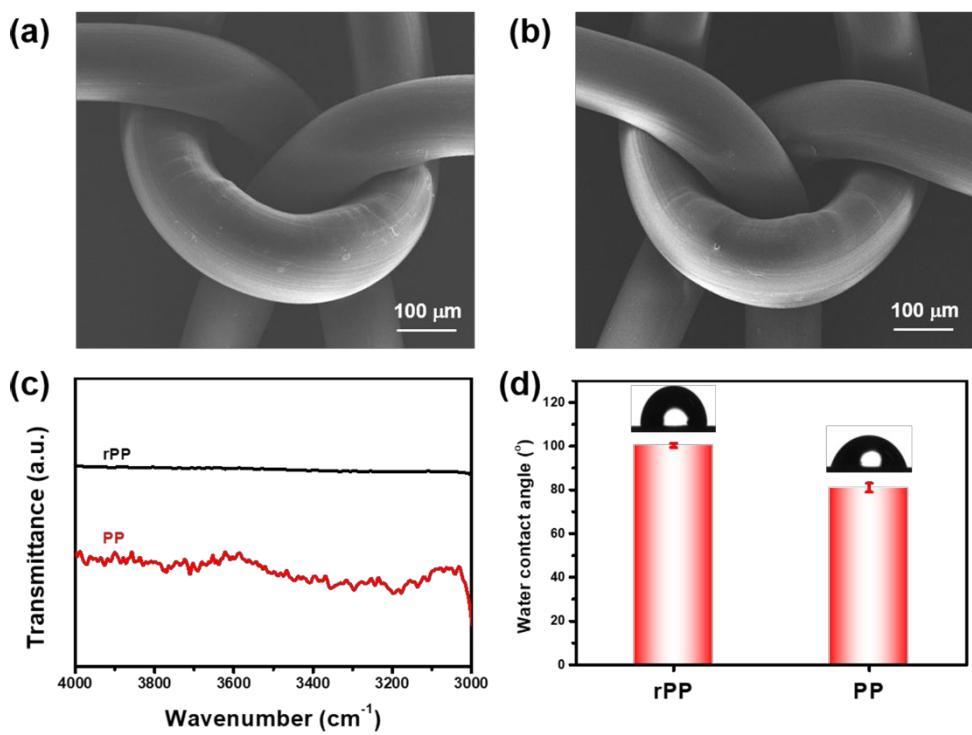


Figure S2. The SEM images of (a) rPP and (b) PP monofilaments, (c) ATR-FTIR spectra and (d) WCA of rPP and PP

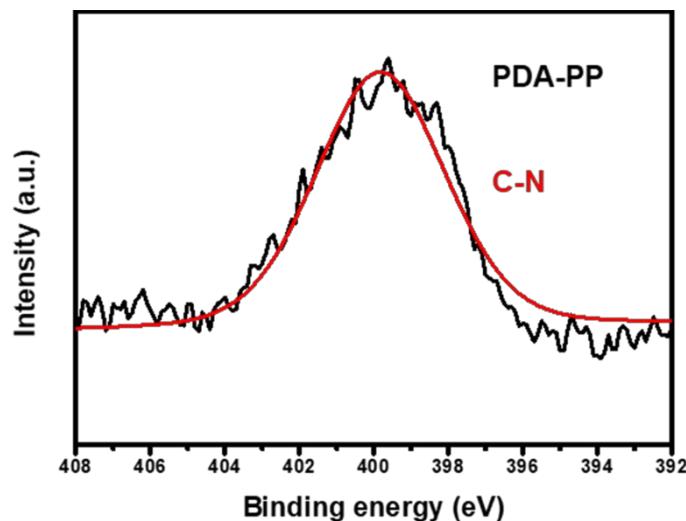


Figure S3. The high-resolution scans of N1s of PDA-PP.

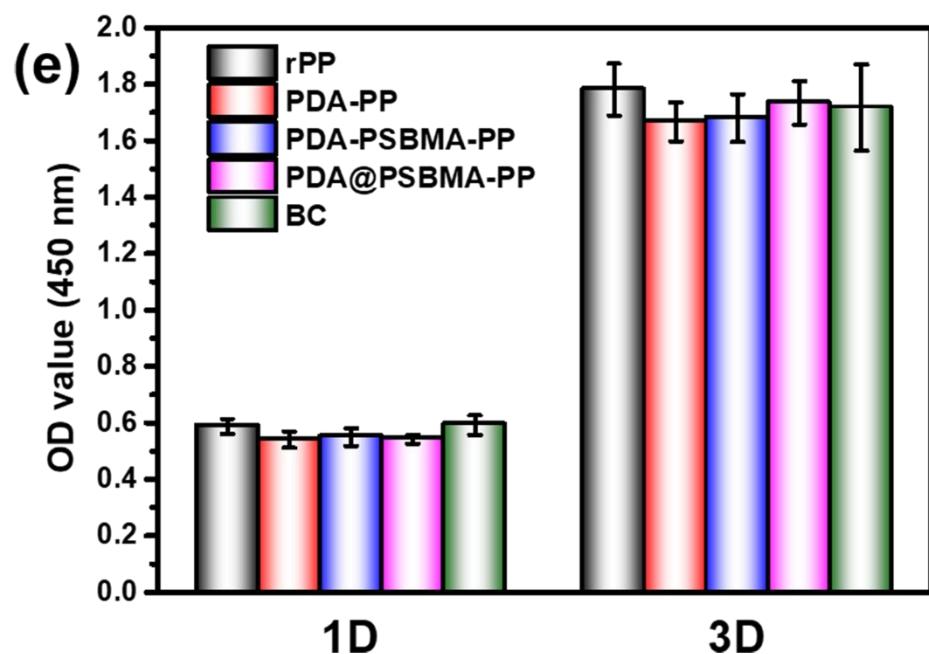
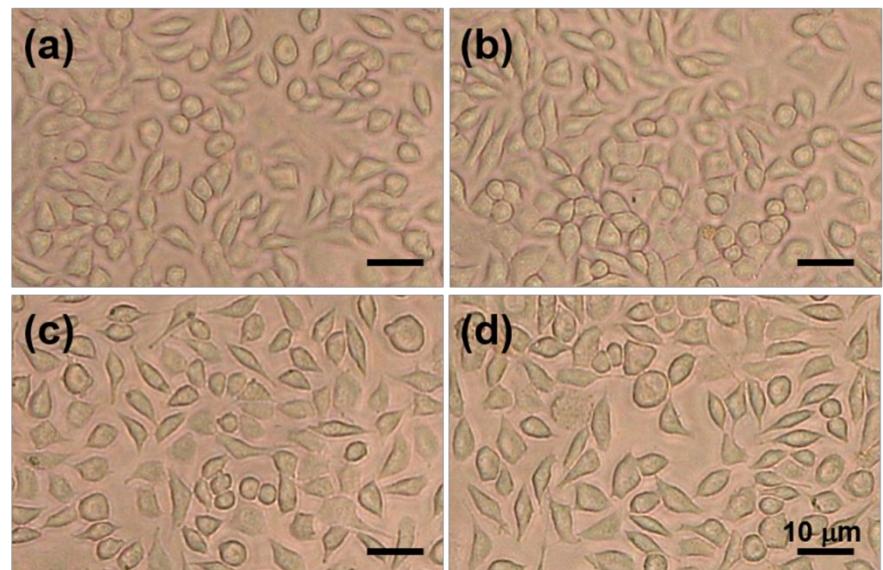


Figure S4. Optical microscope images of L929 cells incubated in medium soaked with rPP (a), PDA-PP (b), PSBMA-PDA-PP (c), PSBMA@PDA-PP (d). The OD values of cytotoxicity test results from CCK-8.

Table S1. The surface elemental composition of PSBMA-PDA-PP

Concentrations of PSBMA (mg/mL)	C (%)	N (%)	O (%)	S (%)
2	68.92	7.04	22.52	1.52
0.4	69.37	7.67	21.96	1.00
0.2	69.52	7.13	22.46	0.89

Table S2. The surface elemental composition of rPP and PP

Mesh	C (%)	O (%)
rPP	100	0
PP	88.18	11.82

Table S3. The surface elemental composition of PDA-PP and PSBMA@PDA-PP

Sample	C (%)	N (%)	O (%)	S (%)
PDA-PP	65.61	6.76	27.63	0
PSBMA@PDA-PP	71.59	7.47	19.83	1.10

Table S4. The surface elemental composition of degraded samples on 7 D

Sample	C (%)	N (%)	O (%)	S (%)
PSBMA-PDA-PP	67.38	7.10	24.78	0.74
PSBMA@PDA-PP	69.06	6.92	23.20	0.82