Bioactive microgel coated electrospun membrane with cell-instructive interfaces and topology for abdominal wall defect repair

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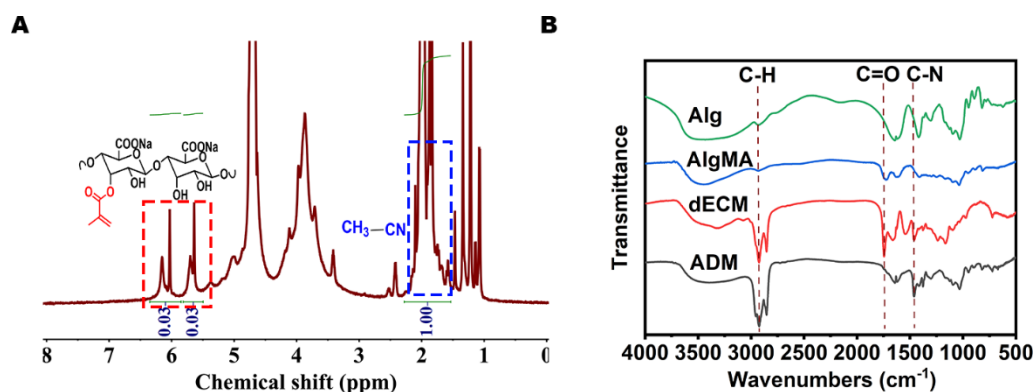
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Fig. S1 (A) ^{1}H-NMR spectra of AlgMA, and acetonitrile was used as internal standard. (B)FT-IR spectra of Alg, AlgMA, dECM and ADM.
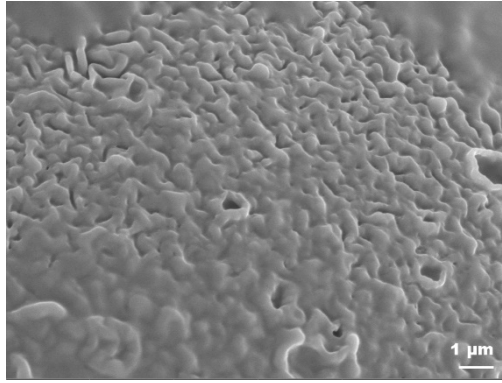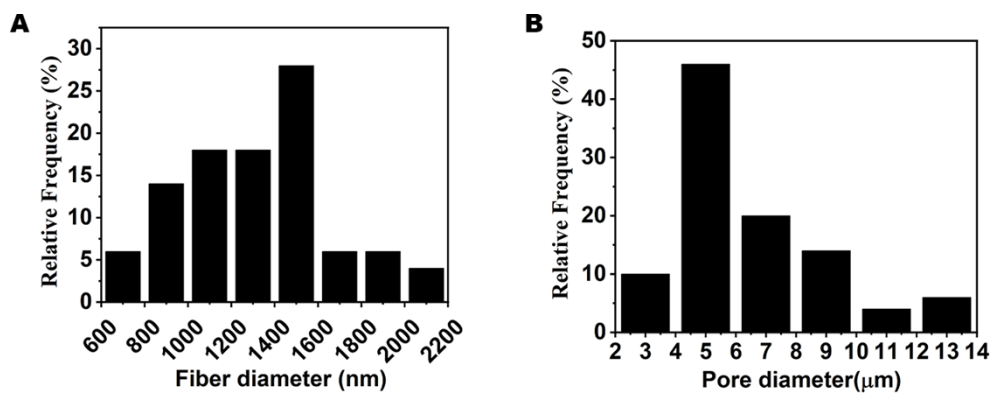
Fig. S2 SEM image of ADM. Scale bar, 1 μm.

Fig. S3 Plot of (A) fiber diameter statistics and (B) pore size statistics of PLCL membranes. (n=50)
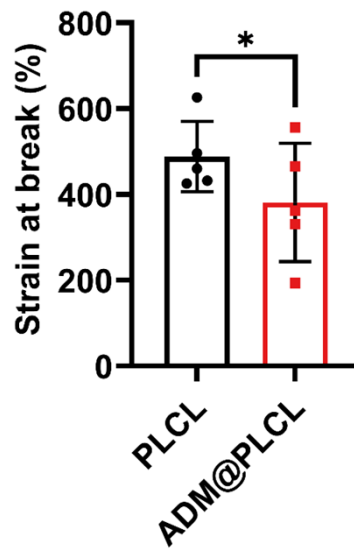

Fig. S4 Strain at break of PLCL and ADM@PLCL films. Data are expressed as mean ± SD (n=5). Significantly different (one-way ANOVA): *$p < 0.01$.
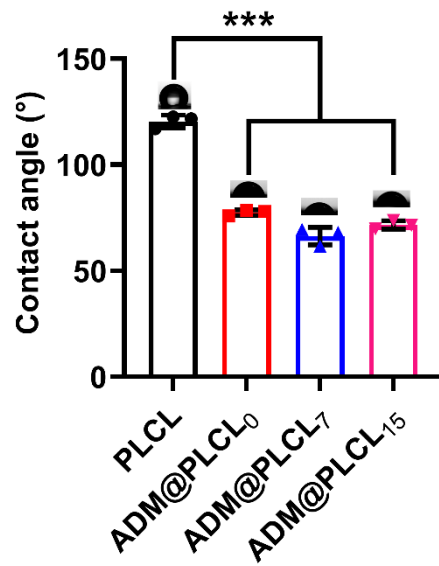
Fig. S5 Water contact angle of PLCL and ADM@PLCL$_x$ (subscript x indicates ADM@PLCL immersed in PBS for x days) membranes. Data are expressed as mean ± SD (n=5). Significantly different (one-way ANOVA): ***$p < 0.001$.
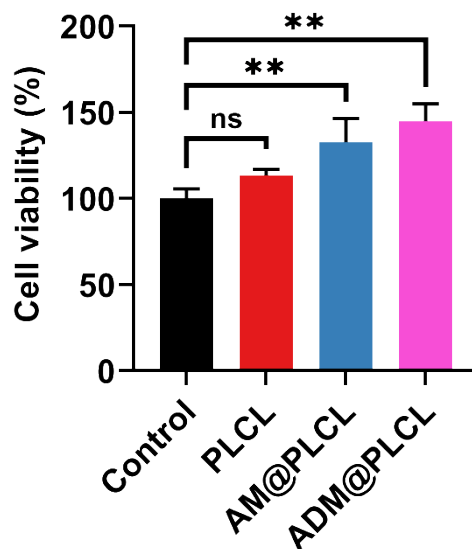

Fig. S6 CCK-8 analysis of L929 cells after co-culture with extract of different films. Data are expressed as mean ± SD (n=3). Significantly different (one-way ANOVA): no significant difference (ns): $p > 0.05$ and **$p < 0.01$.