

# Supporting Information

## An Injectable Hemostat Composed of a Polyphosphate-Conjugated Hyaluronan Hydrogel

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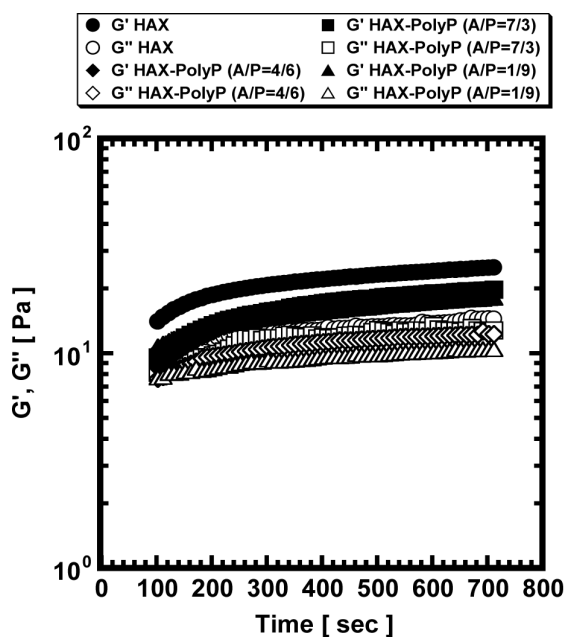
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**Figure S1:** Time dependency of the storage modulus  $G'$  and loss modulus  $G''$  of the HAX-PolyP with different mixture ratios of HA-PolyP and HA-ADH after the addition of HA-CHO.

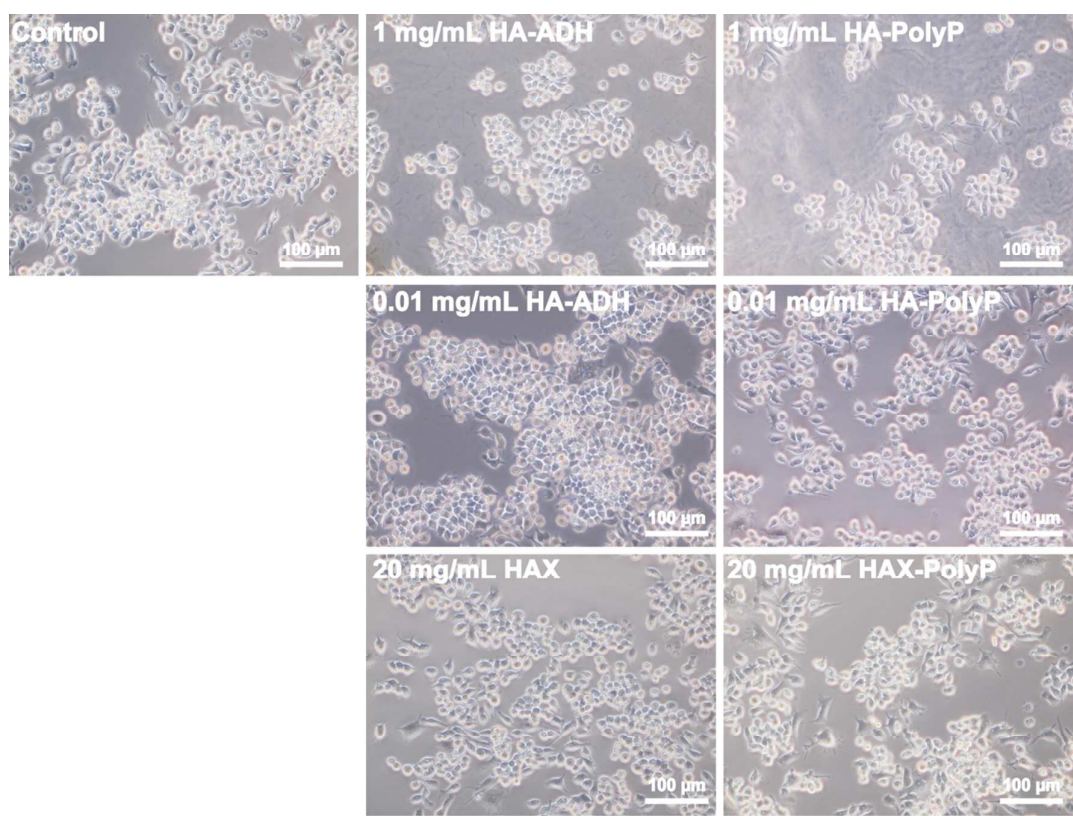
**Figure S2:** Microscopic images of mouse macrophages (RAW264.7) 1 day after the application of materials.

**Figure S3:** Microscope images of mouse fibroblast cells (NIH3T3) 1 day after the application of materials.

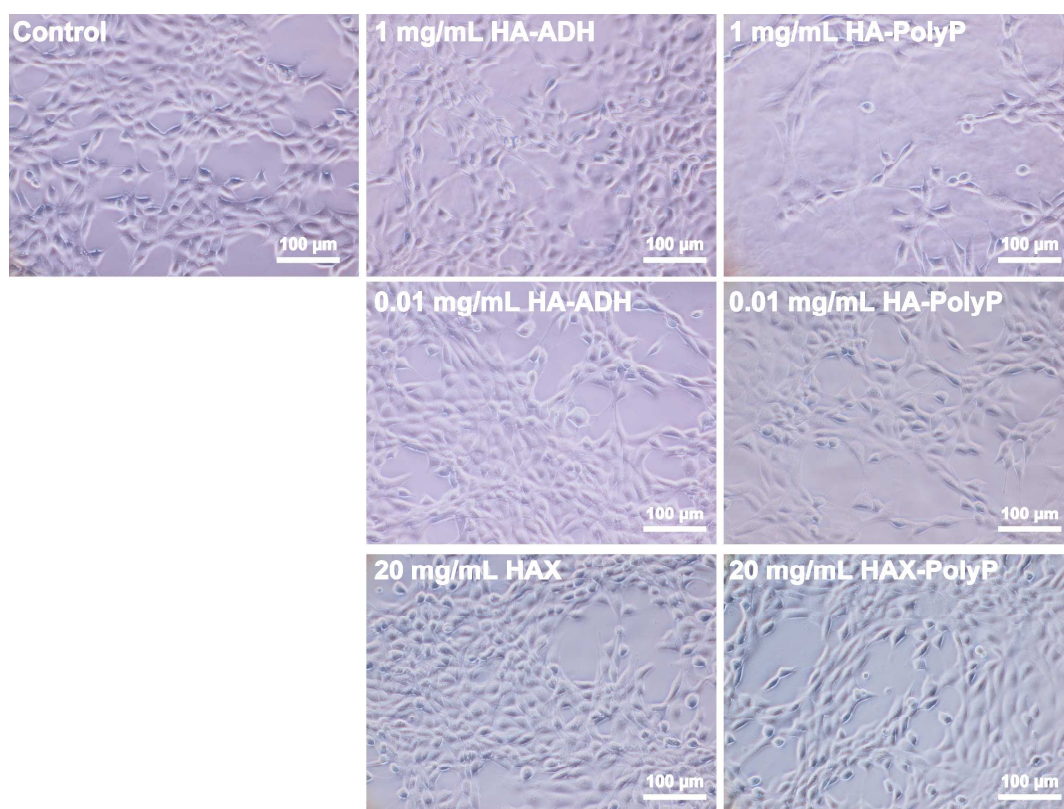
**Figure S4:** Microscope images of human mesothelial cells (MeT-5A) 1 day after the application of materials.



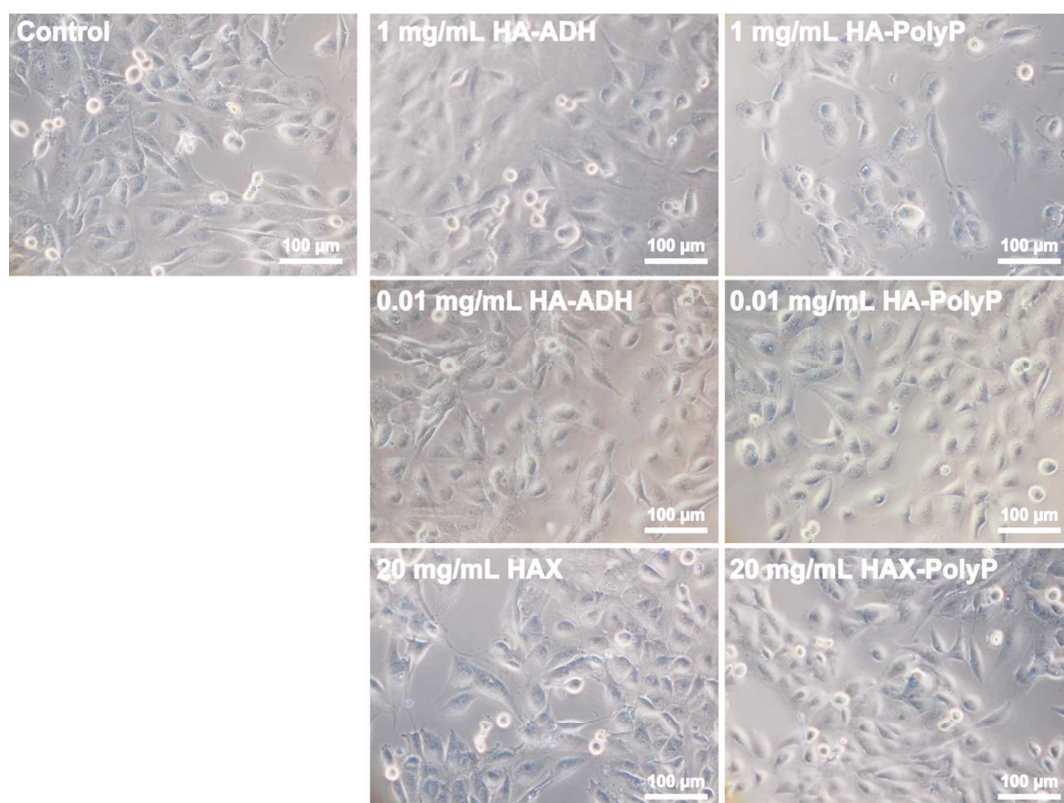
**Figure S1.** Time dependency of the storage modulus  $G'$  and loss modulus  $G''$  of the HAX-PolyP with different mixture ratios of HA-PolyP and HA-ADH after the addition of HA-CHO. The strain value and the frequency were fixed at 5% and 1 Hz, respectively.



**Figure S2.** Microscopic images of mouse macrophages (RAW264.7) 1 day after the application of materials: control (untreated cells), 0.01-1 mg/mL HA-ADH, 0.01-1 mg/mL HA-PolyP, 20 mg/mL HAX, and 20 mg/mL HAX-PolyP.



**Figure S3.** Microscope images of mouse fibroblast cells (NIH3T3) 1 day after the application of materials: control (untreated cells), 0.01-1 mg/mL HA-ADH, 0.01-1 mg/mL HA-PolyP, 20 mg/mL HAX, and 20 mg/mL HAX-PolyP.



**Figure S4.** Microscope images of human mesothelial cells (MeT-5A) 1 day after the application of materials: control (untreated cells), 0.01-1 mg/mL HA-ADH, 0.01-1 mg/mL HA-PolyP, 20 mg/mL HAX, and 20 mg/mL HAX-PolyP.