

Supplementary data for

Crosslinking by Click Chemistry of Hyaluronan Graft Copolymers Involving Resorcinol-Based Cinnamate Derivatives Leading to Gel-Like Materials

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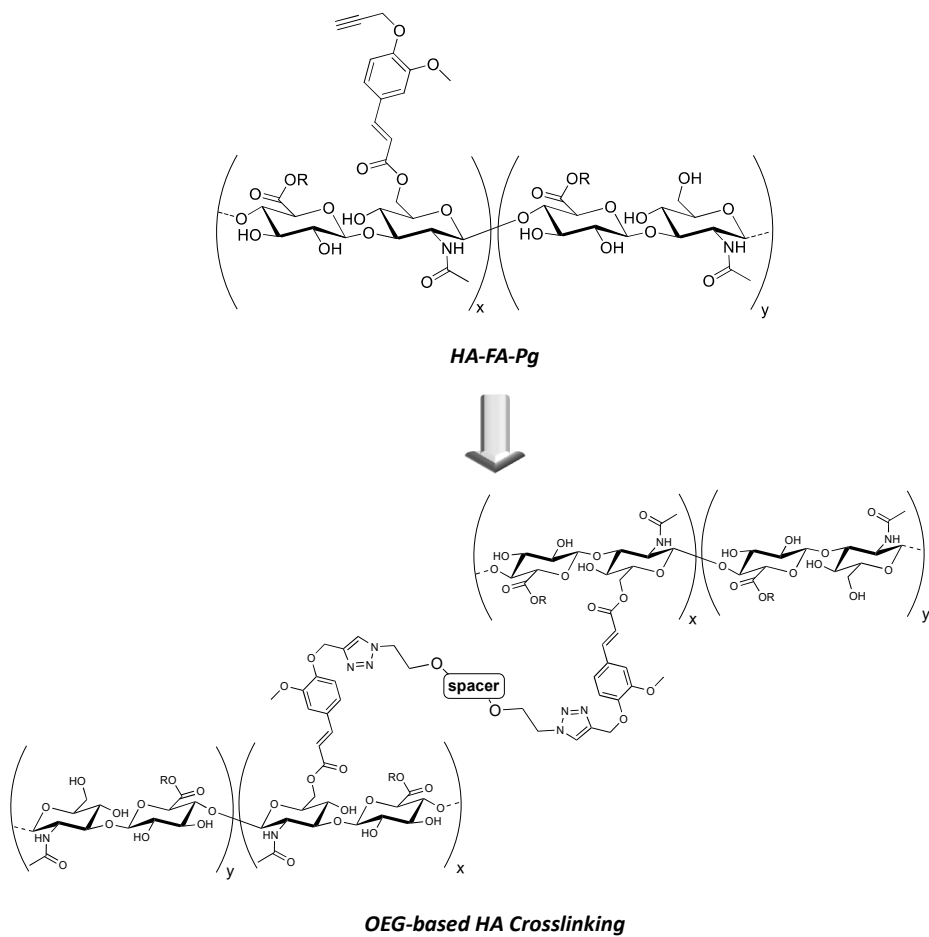


Figure S1. Elaboration and applications of the technology platform employing **HA** by means of **HA-FA-Pg** graft copolymers in OEG-based **HA** crosslinking.

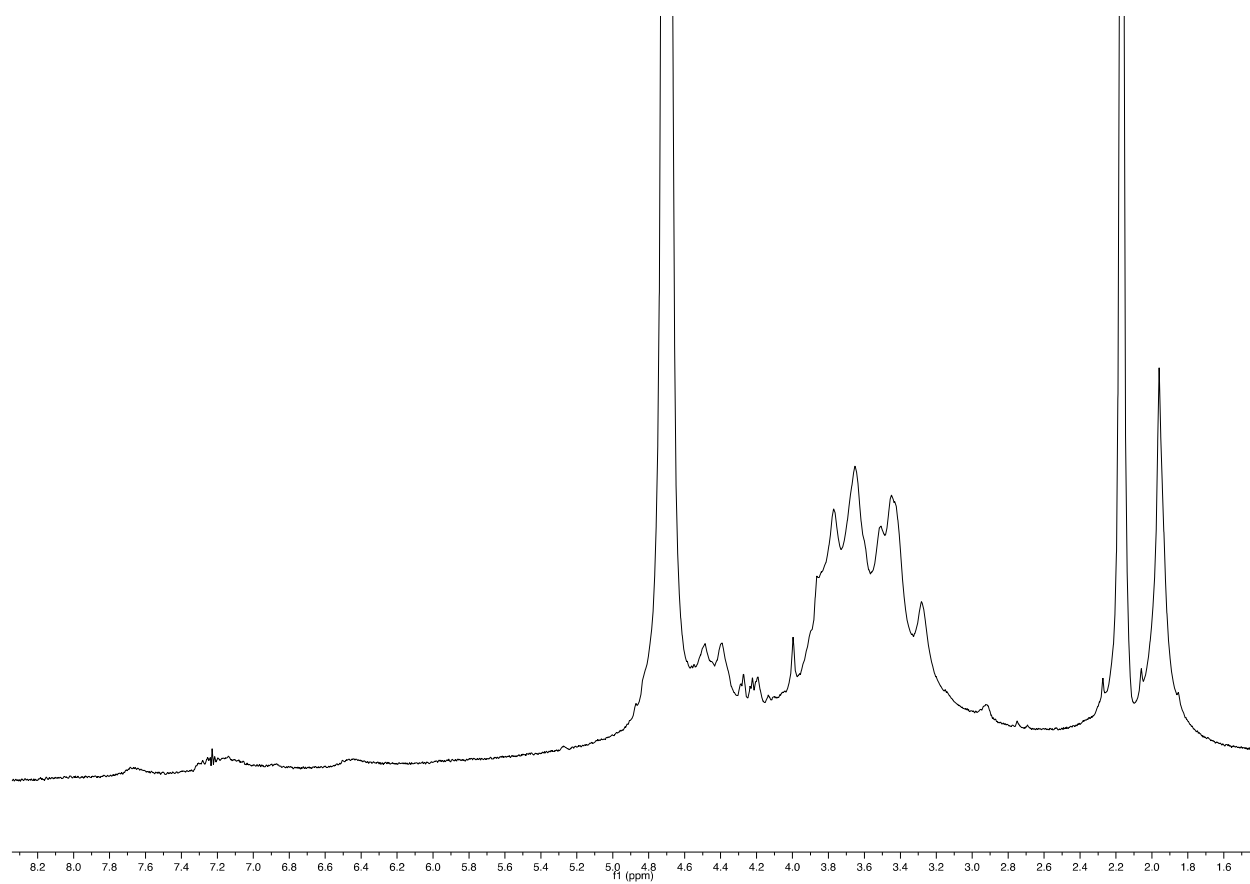


Figure S2. ^1H NMR (D_2O , 600 MHz) spectrum of the crosslinked material **HA(270)-FA-TEGERA-CL-10**.

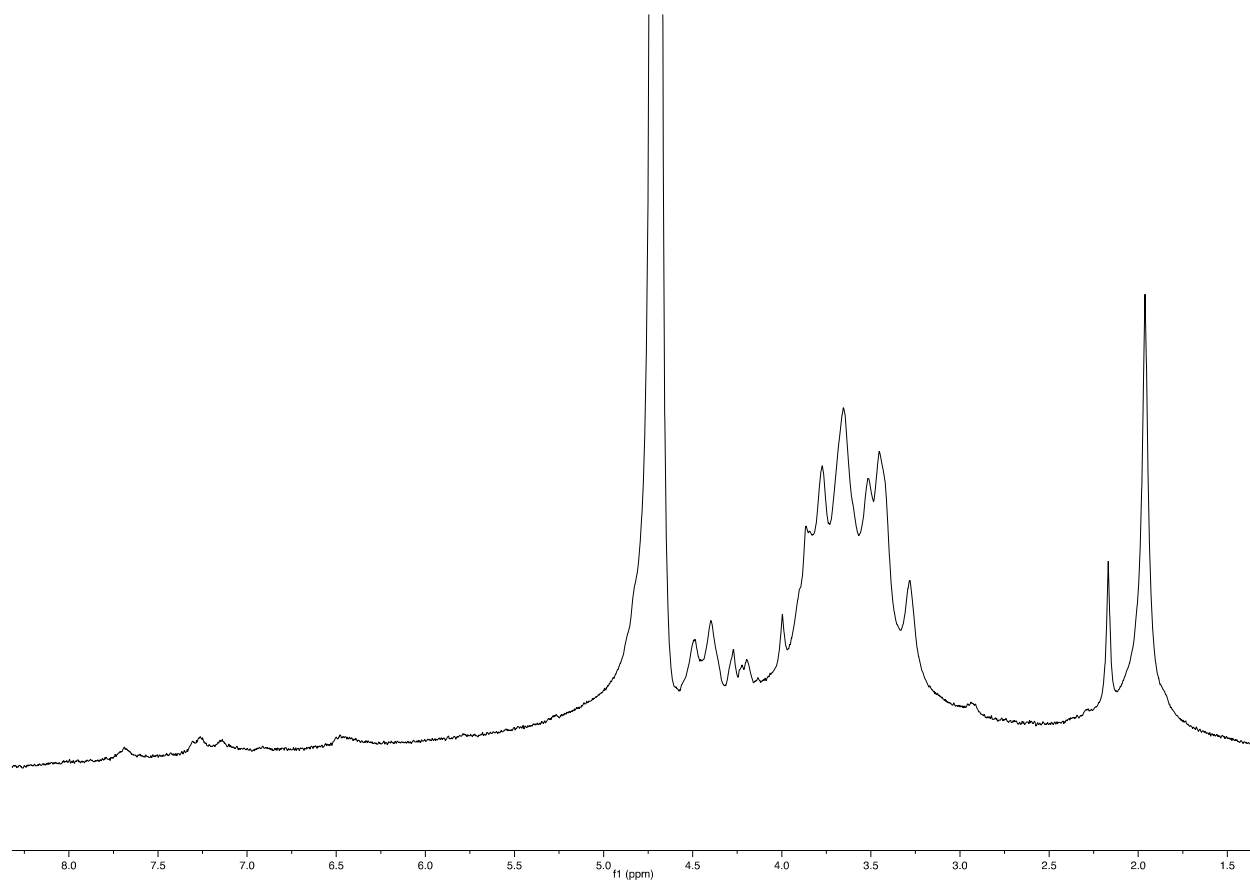
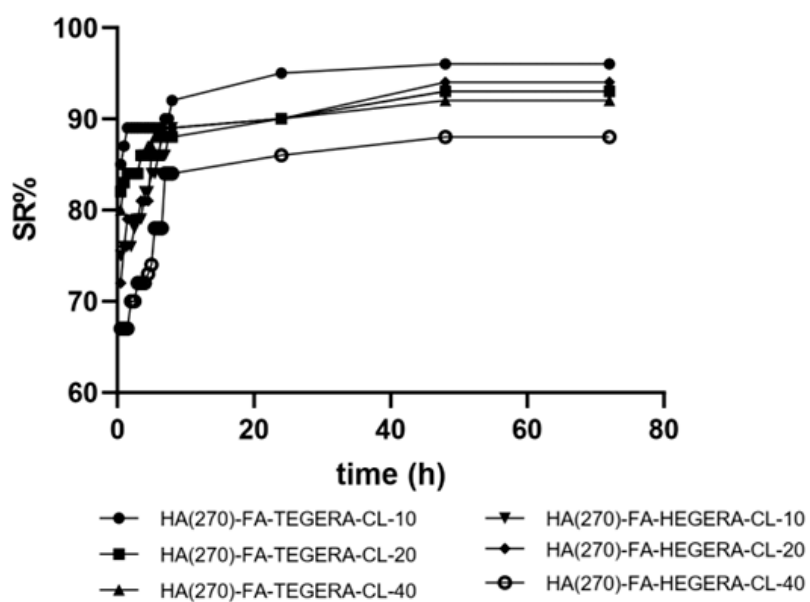


Figure S3. ^1H NMR (D_2O , 600 MHz) spectrum of the crosslinked material **HA(270)-FA-HEGERA-CL-10**.

(A)



(B)

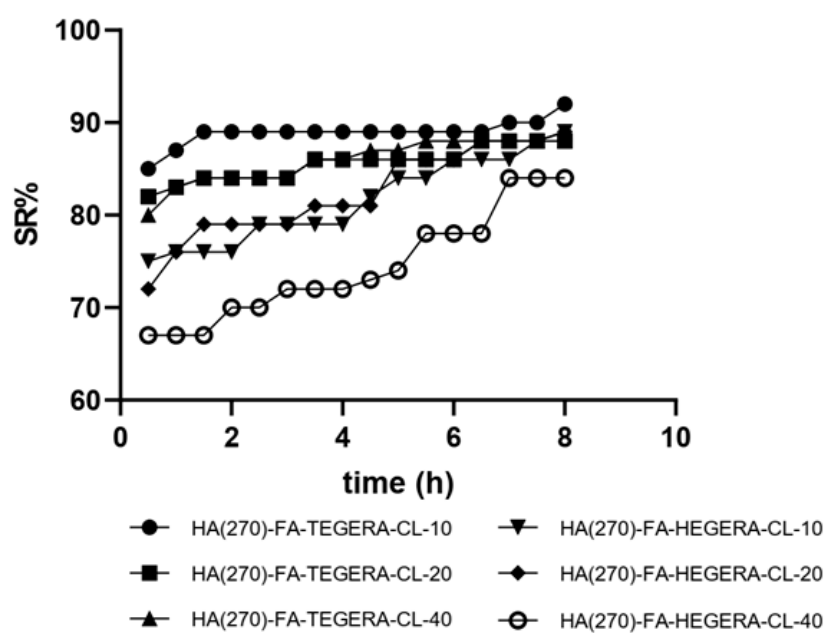


Figure S4. (A) swelling kinetics measured across the time range 0-72 h of **HA(270)-FA-TEGERA-CL** and **HA(270)-FA-HEGERA-CL** series. (B) swelling kinetics measured across the time range 0-8 h of **HA(270)-FA-TEGERA-CL** and **HA(270)-FA-HEGERA-CL** series.

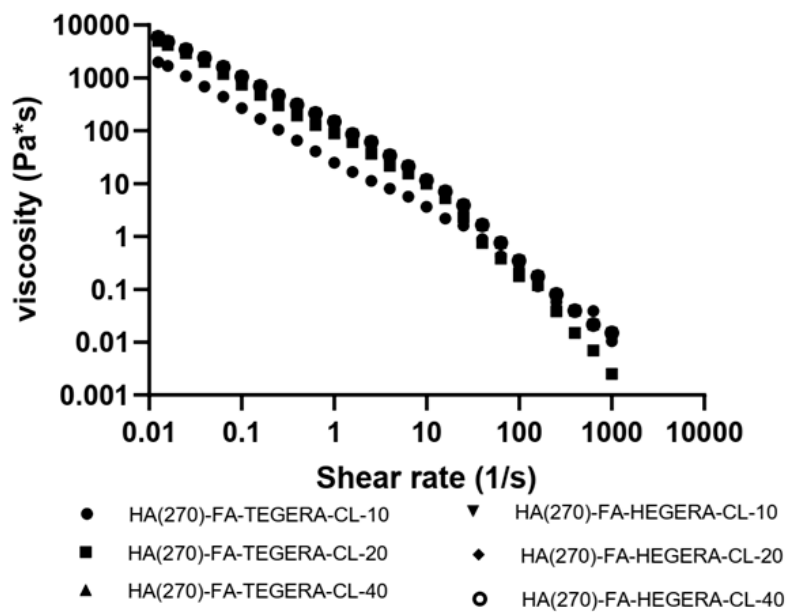


Figure S5. Viscosity curves of **HA(270)-FA-TEGERA-CL** and **HA(270)-FA-HEGERA-CL** series.

Table S1. TGA analysis of samples in the 30-850 °C heating range. Data were reported as % mean values (n = 3).

| Sample | Heating range 30-850 °C |
|-------------------------|----------------------------|
| HA(270)-FA-TEGERA-CL-10 | $80 \pm 1\%$ |
| HA(270)-FA-TEGERA-CL-20 | $88 \pm 1\%$ |
| HA(270)-FA-TEGERA-CL-40 | $78 \pm 2\%$ |
| HA(270)-FA-HEGERA-CL-10 | $81 \pm 1\%$ |
| HA(270)-FA-HEGERA-CL-20 | $81 \pm 1\%$ |
| HA(270)-FA-HEGERA-CL-40 | $82 \pm 1\%$ |
| HA(270)-FA-HEG-CL-10 | $86 \pm 2\%$ |
| HA(270)-FA-HEG-CL-20 | $89 \pm 1\%$ |
| HA(270)-FA-HEG-CL-40 | $91 \pm 1\%$ |
| HA(270)-FA-Pg-10 | $92 \pm 1\%$ |
| HA(270)-FA-Pg-20 | $91 \pm 1\%$ |
| HA(270)-FA-Pg-40 | $91 \pm 1\%$ |