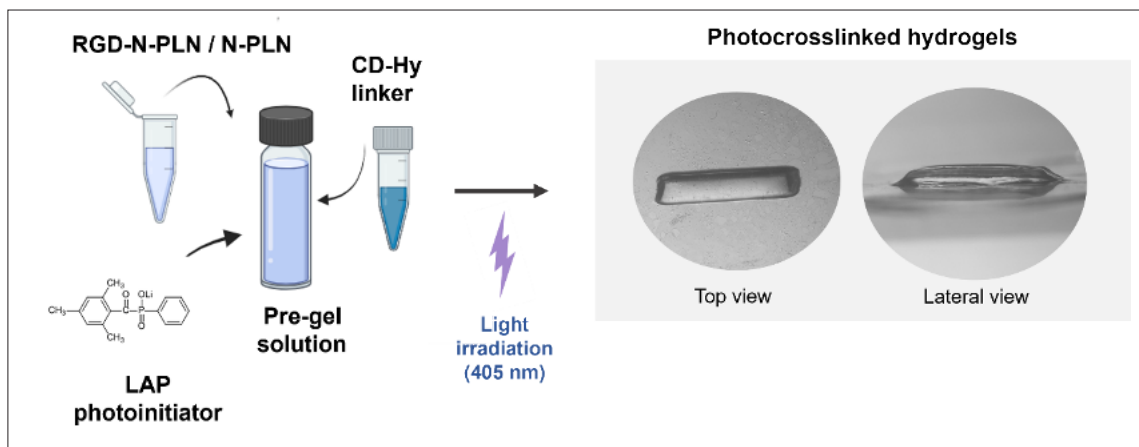


RESEARCH ARTICLE

Mimicking human skin constructs using norbornene-pullulan-based hydrogels

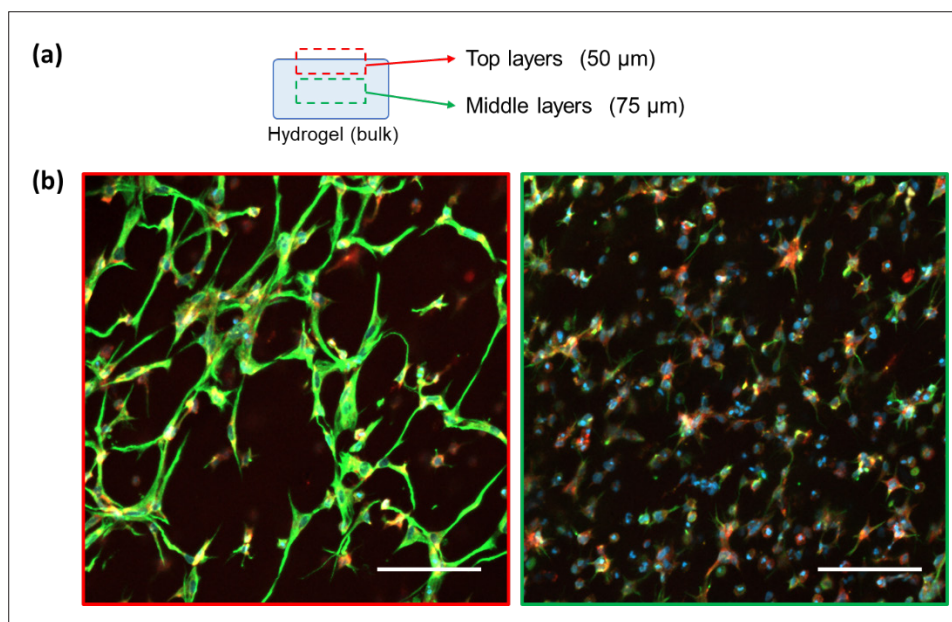
Supplementary file



**Figure S1.** Visual representation of the bioink preparation with the different components involved (left) and pictures of the resulting hydrogels after printing.



**Figure S2.** Pictures of the resulting photocrosslinked hydrogels using the same printing parameters (power intensity of 22 mW and stage translational speed of 0.3 mm/s) but different molar ratios of N-PLN polymer to PEG-link crosslinker. Scale bar = 5 mm.



**Figure S3.** View of norbornene-pullulan-based hydrogel's scaffold. (a) Schematic gel representation (upper part: 50  $\mu\text{m}$  thickness; lower part: 75  $\mu\text{m}$  thickness). (b) Confocal maximum Z-projections at 4 days after encapsulation of the first 50  $\mu\text{m}$  (left panel) and bottom 75  $\mu\text{m}$  (right panel) of the gel's bulk (same sample region) based on *Formulation 2*, with Hs-27 cells embedded. Vimentin (green), collagen IV (red), Ki67 (magenta), and nuclei (blue) are the selected markers. Scale bars: 100  $\mu\text{m}$ .