Electronic Supplementary Material (ESI) for Lab on a Chip.

Figure S1. Schematics of the microfluidic device. Dimensions of key components are provided. Traps are numbered from left to right (1-16).

Figure S2. CAD file microfluidic chip components.

Table S1. Template for matrix screen. In the 'Solutions' tab, the instructions detail how to prepare the dilutions of the matrix components (agarose, fibrinogen, thrombin and laminin) and cells. The "Plate setup" tab contains instructions on how to pipette the different solutions to obtain all possible hydrogel conditions.

Table S2. Operating conditions of the microfluidic chip, detailing media flow, inlet and valve use for each operation.

Table S3. Troubleshooting. Table contains a list of the common issues encountered and steps taken to overcome them.