

Supplemental Data

Figure S1: Nominal Stress-Strain Curve for the different concentrations (1, 2, 3, and 5%) of Agarose gel.

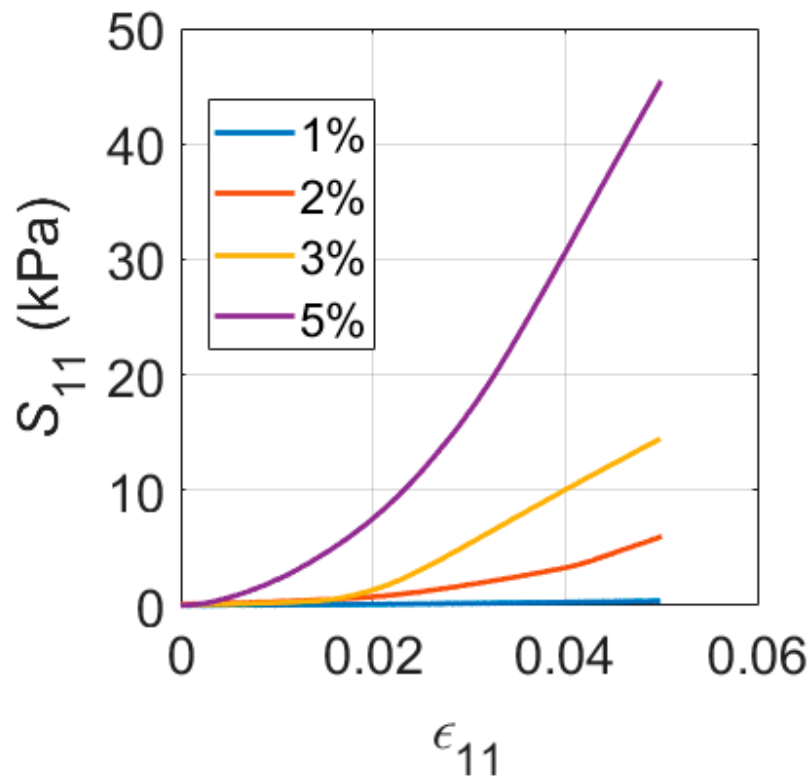


Figure S2: Force Displacement Plots for different PDMS substrates with different curing agent to pre-polymer ratio. Sample 1 = 1:5, Sample 2 = 1:10, Sample 3 = 1:15, Sample 4 = 1:20, Sample 5 = 1:30. The generated force displacement plots were used to establish the Young's moduli of the PDMS substrates.

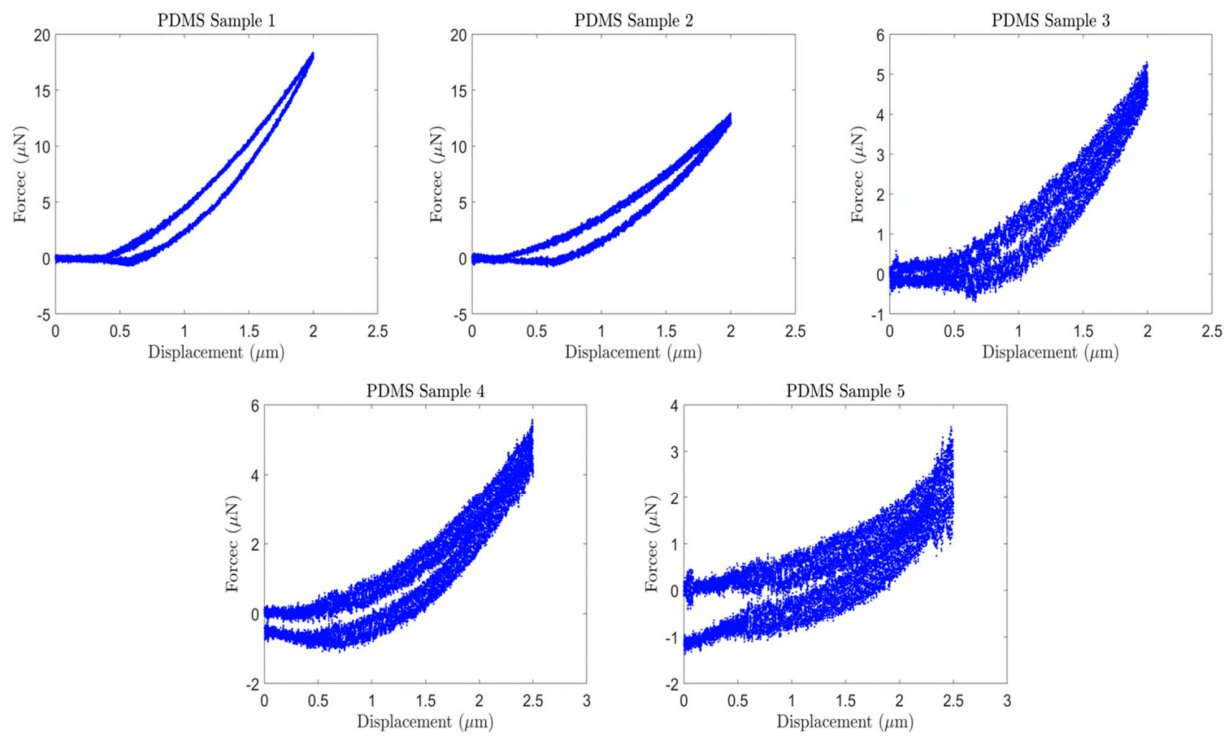
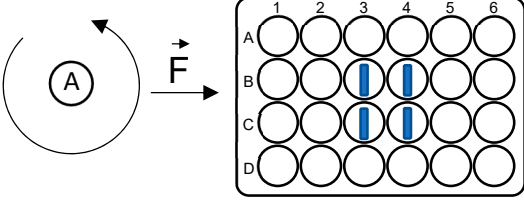
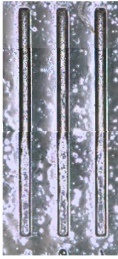
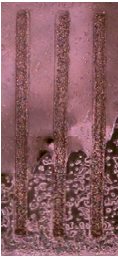
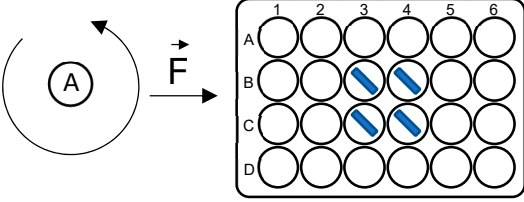
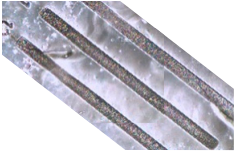



Figure S3: Cell seeding based on PDMS mold orientation during centrifugation. The mold orientation is represented as a blue rectangle. The “angle” (0, 45, or 90°) represents the angle between the mold direction and the direction of the centrifugal force (F) generated in the centrifuge (A = Axis of rotation of the centrifuge)

Mold Orientation		Cell seeding	
		PDMS	Agarose
90°			
45°			
0°	