Supplementary Materials

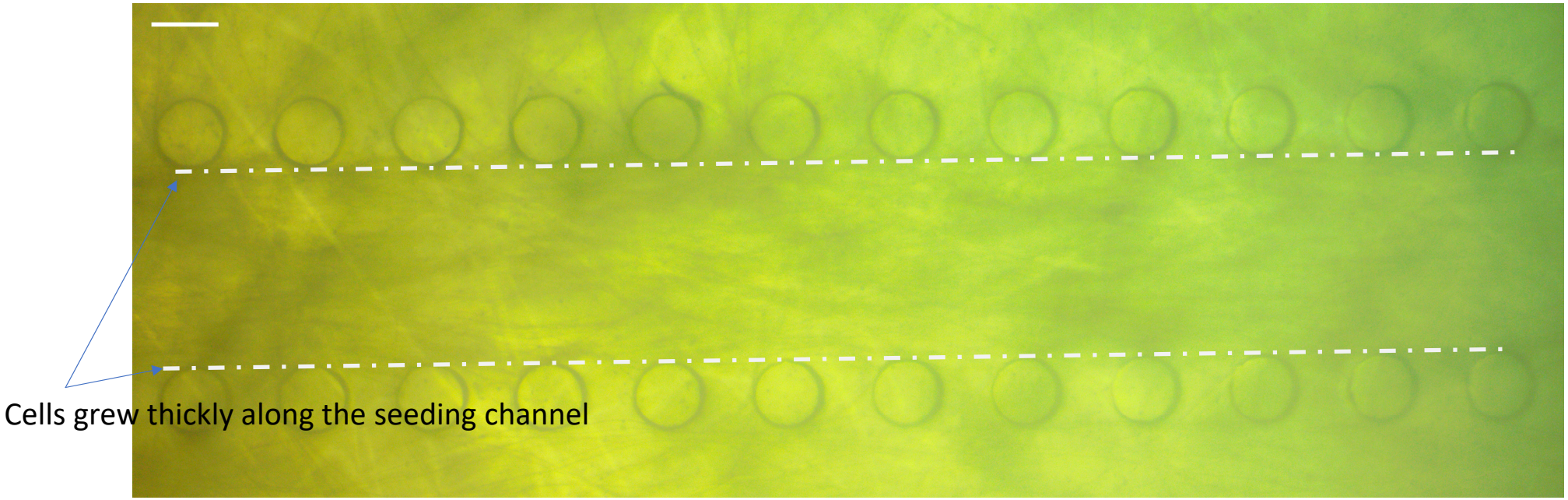
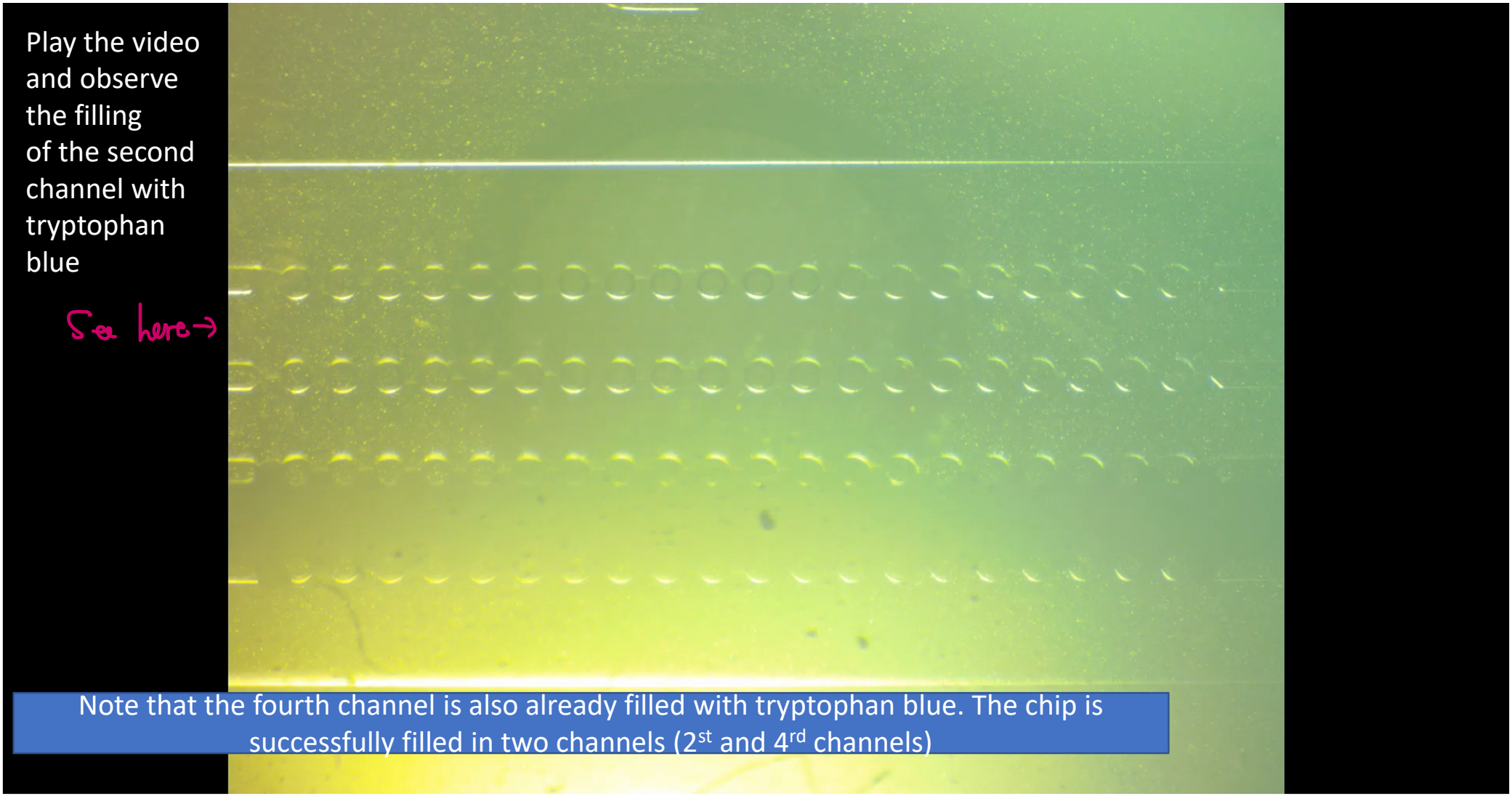


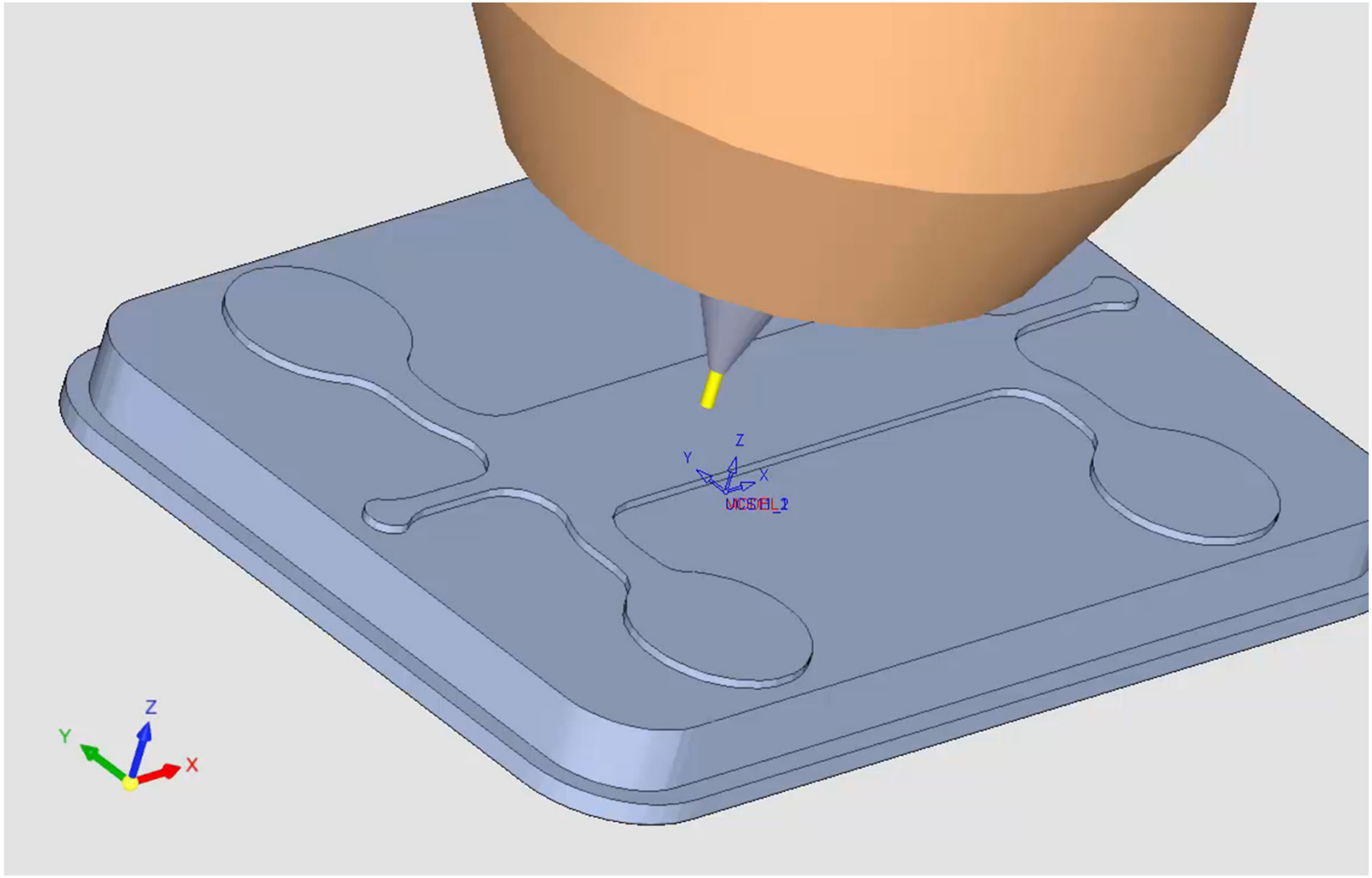
Figure S1: SMC cell after 6 days of seeding in the circular micro-post tissue chips. Scale bar 200 µm

Table S1: Advantages of using circular posts

Design	Reference	Possible fabrications	Scaling up production	Cost-efficient
Circular posts	First time reported in our work (this manuscript)	Micro-milling and polymer injection moulding	Yes	Yes
Hexagonal posts	[5]	Soft photolithography	No	No
Trapezoidal posts	[4, 8, 12]	Soft photolithography	No	No



Media S1: Filling circular micro-post tissue chips



Media S2: CAM simulation of milling process for fabricating circular micro-post in the master mold