

Incubation Time (h)	Beat Rate (bpm)	Contraction ($\mu\text{m/s}$)	Relaxation ($\mu\text{m/s}$)	Deformation (μm)	Beat Interval (s)	Beat Duration (s)
4	8 \pm 2	0.687 \pm 0.121	0.308 \pm 0.060	0.298 \pm 0.112	12.658 \pm 3.766	0.993 \pm 0.072
8	11 \pm 3	0.675 \pm 0.088	0.258 \pm 0.039	0.157 \pm 0.025	14.401 \pm 7.211	0.787 \pm 0.048
12	7 \pm 1	0.724 \pm 0.113	0.270 \pm 0.036	0.157 \pm 0.020	9.269 \pm 1.086	0.831 \pm 0.037
16	7 \pm 2	0.456 \pm 0.059	0.192 \pm 0.020	0.097 \pm 0.011	9.413 \pm 1.942	0.753 \pm 0.040
20	6 \pm 1	1.053 \pm 0.275	0.503 \pm 0.154	0.229 \pm 0.074	23.768 \pm 9.372	0.705 \pm 0.116
24	9 \pm 2	0.691 \pm 0.163	0.239 \pm 0.057	0.125 \pm 0.030	8.767 \pm 3.746	0.628 \pm 0.067
48	14 \pm 3	2.884 \pm 0.364	1.581 \pm 0.245	0.583 \pm 0.076	12.238 \pm 5.350	0.723 \pm 0.038
72	20 \pm 6	2.747 \pm 0.504	1.748 \pm 0.332	0.574 \pm 0.103	4.680 \pm 1.280	0.665 \pm 0.027
96	20 \pm 4	1.895 \pm 0.453	1.218 \pm 0.319	0.858 \pm 0.441	3.746 \pm 1.272	0.749 \pm 0.104
120	18 \pm 7	1.487 \pm 0.426	0.984 \pm 0.296	0.334 \pm 0.091	2.324 \pm 0.574	0.662 \pm 0.110

Supplementary Table 1. Summary of generated values based on beat profiles. Standard error is denoted in the table (n=50). Cells were observed every 4 h for 1 day and continued to be monitored for 5 days. Abrupt decrease of beating cells were observed after 5 days.