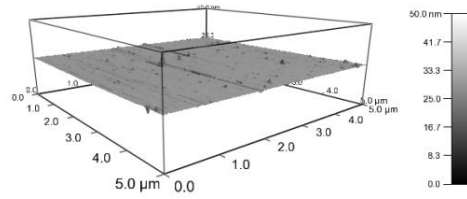
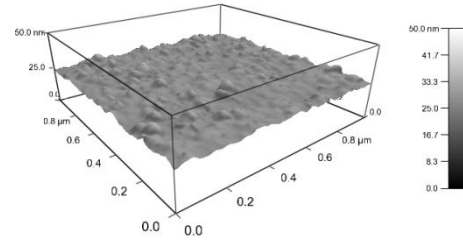


Supporting Evidence for Cellulase immobilization on Si

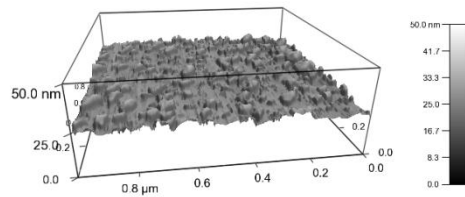
(a)



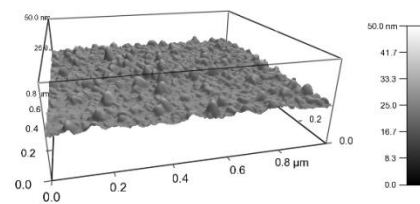
(b)



(c)



(d)



(e) Anova: Single Factor

SUMMARY

Groups	Count	Sum (nm)	Average (nm)	Variance (nm)
Cleaned Si	8	2.42	0.30	0.057
Celluclast 10 min	7	9.75	1.39	0.407
Celluclast 20 min	7	9.21	1.31	0.076
Celluclast 1 h	4	16.9	4.24	23.441

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	41.9	3	14.0	4.17	0.017	3.05
Within Groups	73.6	22	3.3			
Total	115.5	25				

Additional File 1. 1 μ m x 1 μ m 3-D AFM topography images, with a 50 nm height bar of (a) clean Si wafer (RMS = 0.102 nm), *Trichoderma reesei*, ATCC 26921 immobilized on a Si wafer for (b) 10 min (RMS = 2.08 nm), (c) 20 min (RMS = 1.72 nm), (d) 1 h (RMS = 2.07nm); (e) ANOVA results for RMS values of Si immobilized for varying time.