

Figure 1

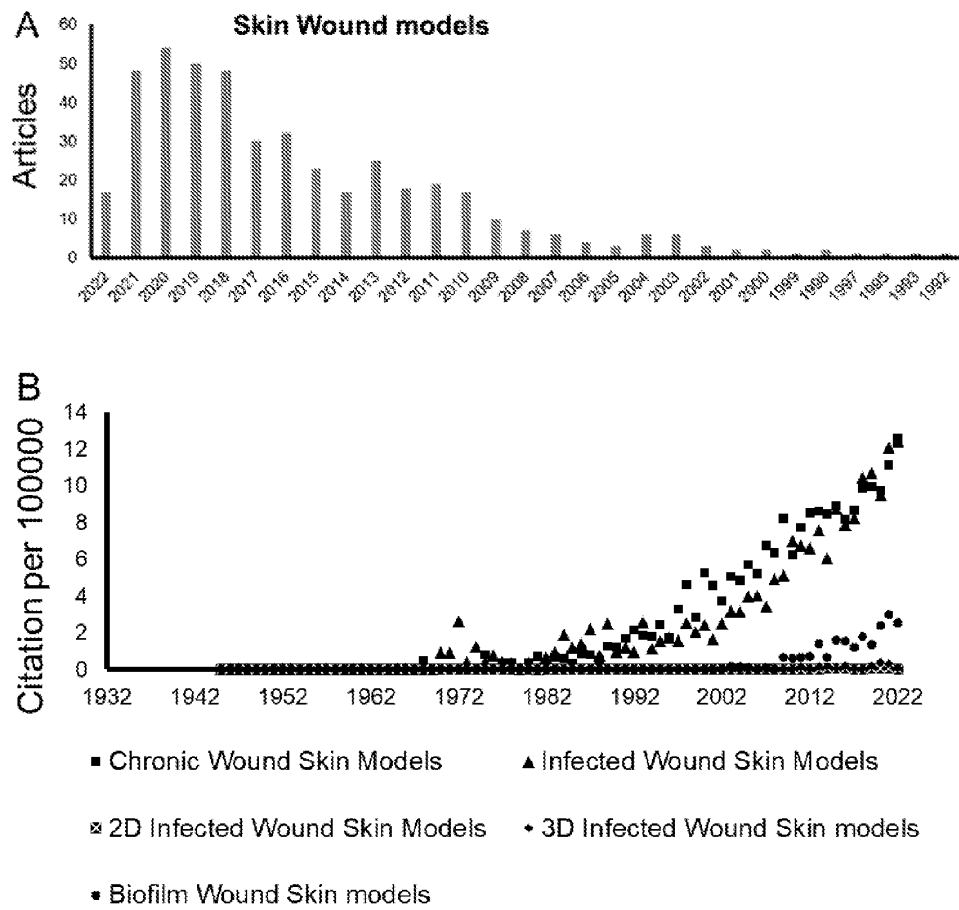


Figure 2

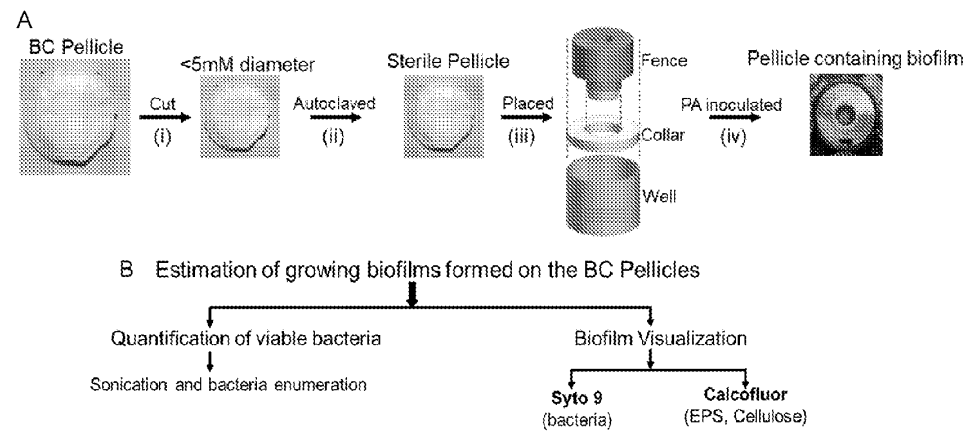


Figure 3

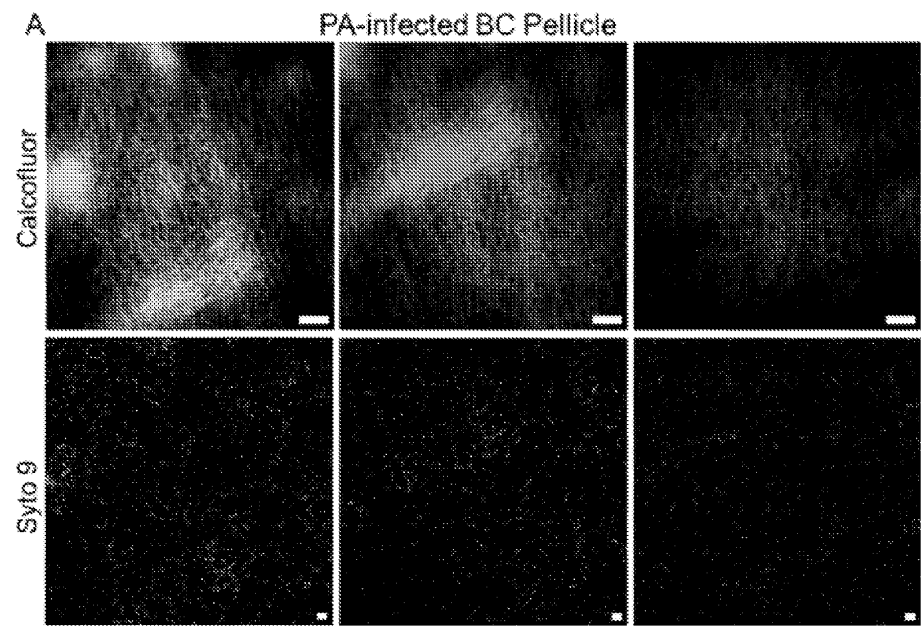


Figure 3 (continued)

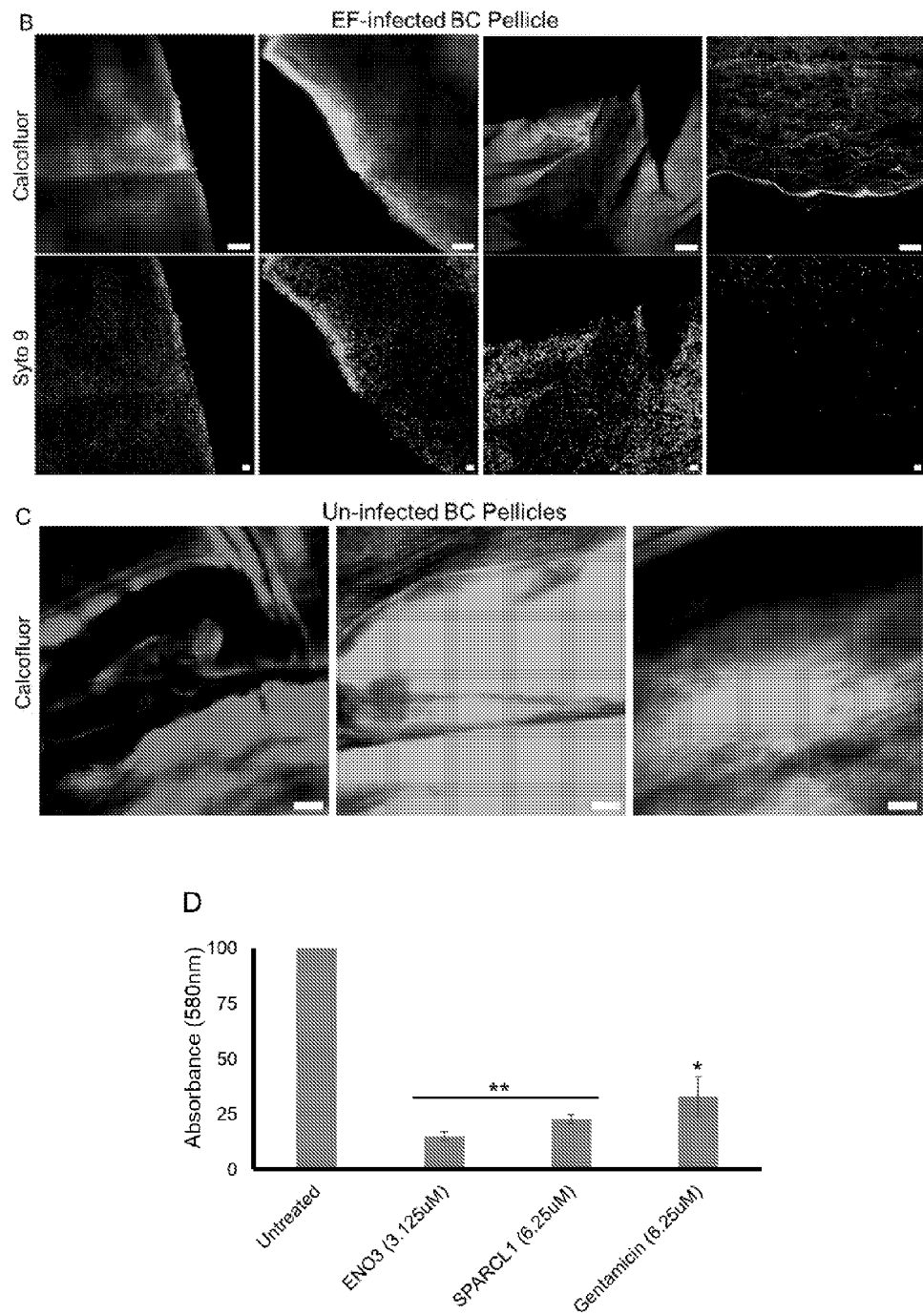


Figure 4

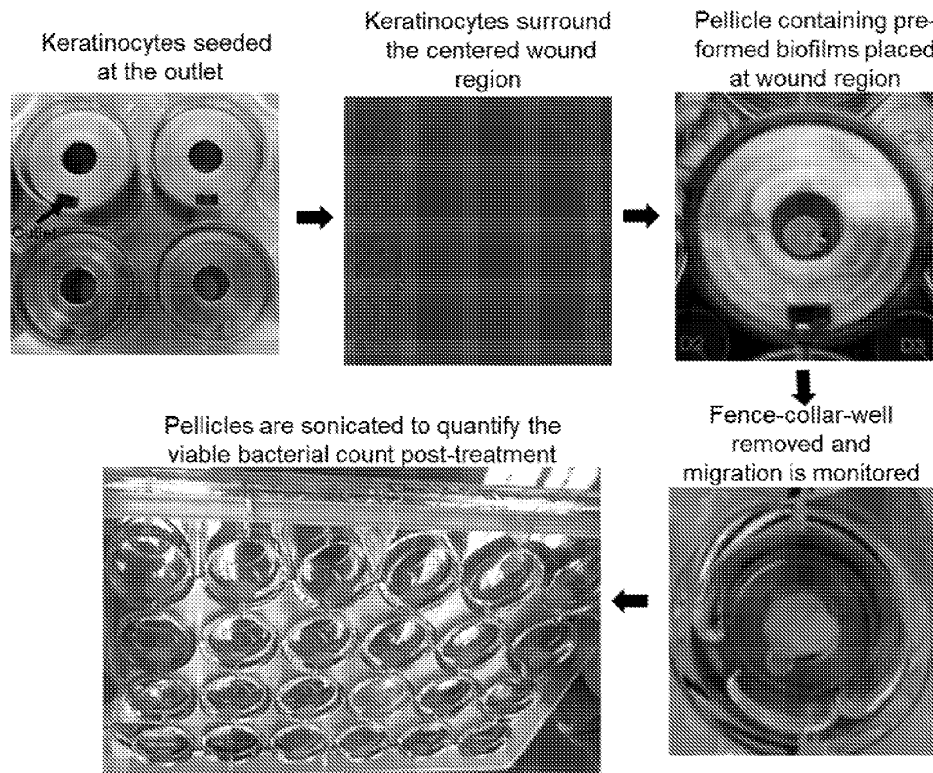


Figure 5

A

Features	Treatments
No treatment (A)	5% CO ₂
Alkaline pH (B)	1% CO ₂
Hypoxia (C)	5% CO ₂ + CoCl ₂
Alkaline pH, Hypoxia (D)	1% CO ₂ + CoCl ₂
Alkaline pH, Hypoxia, Inflammation, Senescence (E)	1% CO ₂ + CoCl ₂ + Etoposide

B

Starting pH	Endpoint pH	Remarks
pH 8.5, 5% CO ₂	7.2	High acidification likely due to increased HCO ₃ ⁻ production
pH 8.5, 1% CO ₂	7.9	Slight acidification, attributed to lower HCO ₃ ⁻ production
pH 8.5, 1% CO ₂ , 20mM HEPES	8.5	pH remains stable at 8.5, indicating effective buffering

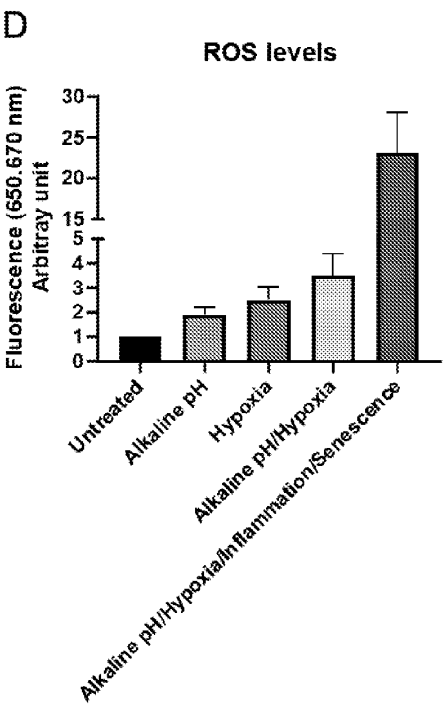
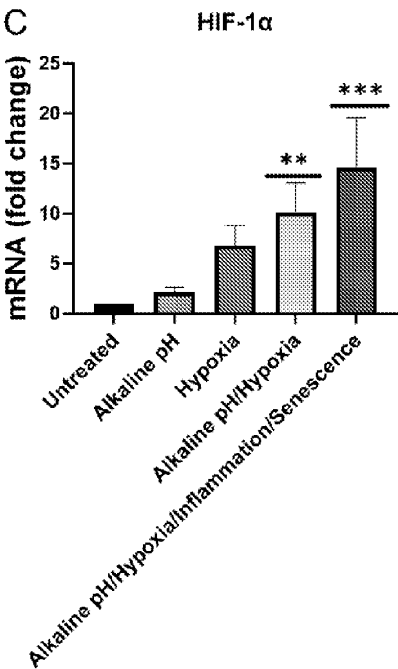


Figure 5 (continued)

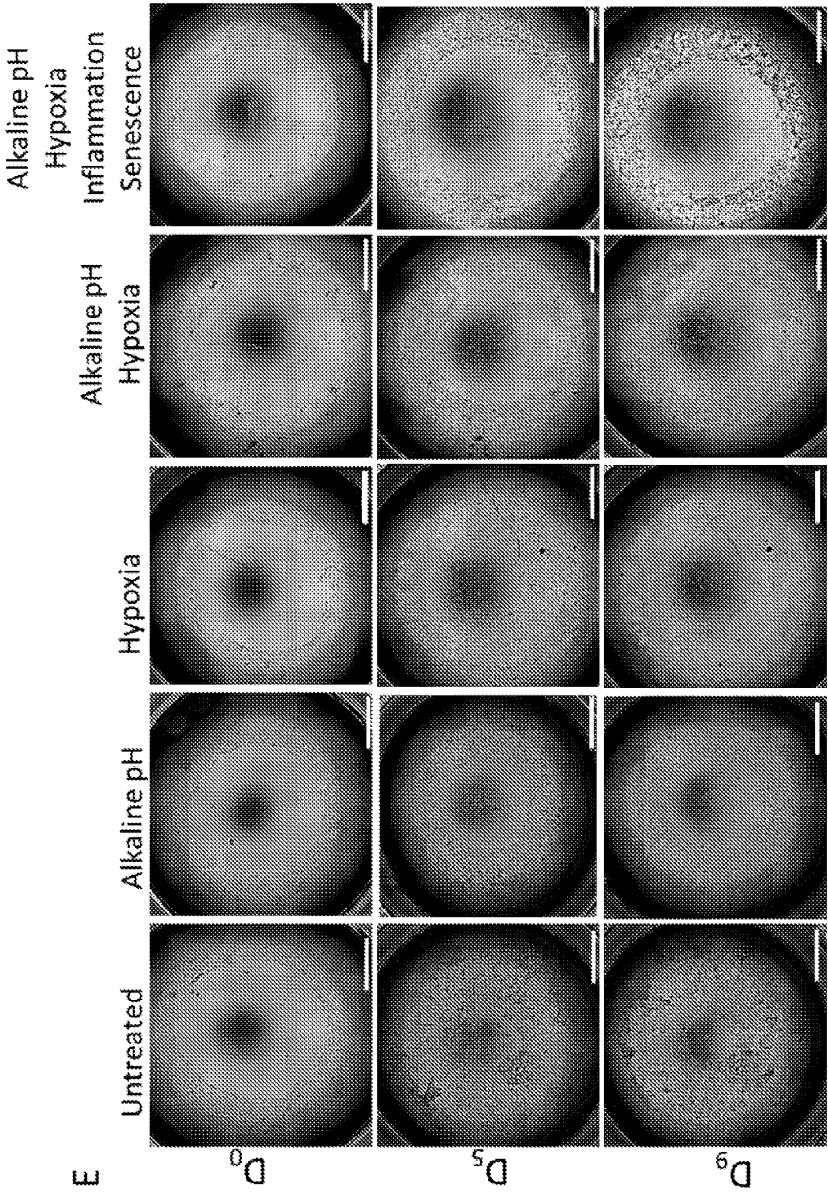


Figure 5 (continued)

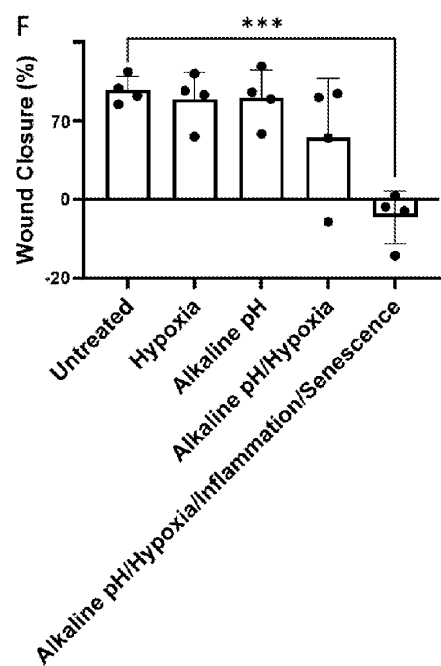


Figure 6

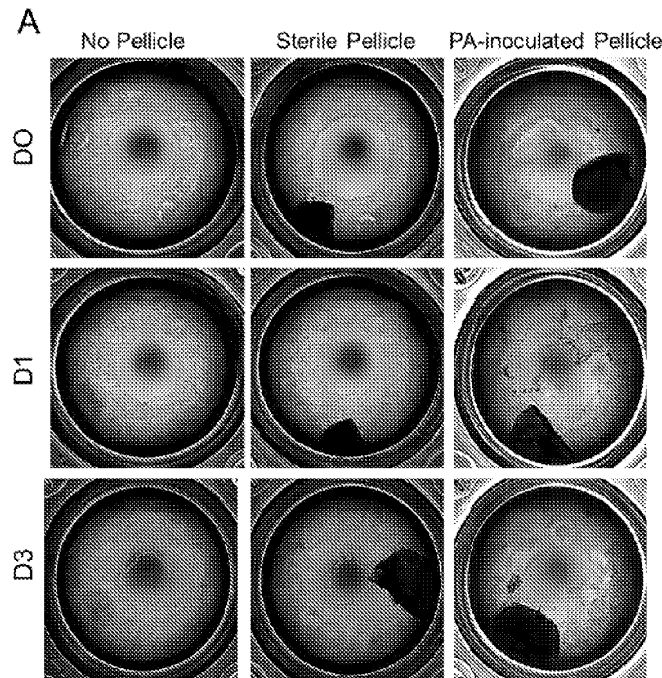


Figure 6 (continued)

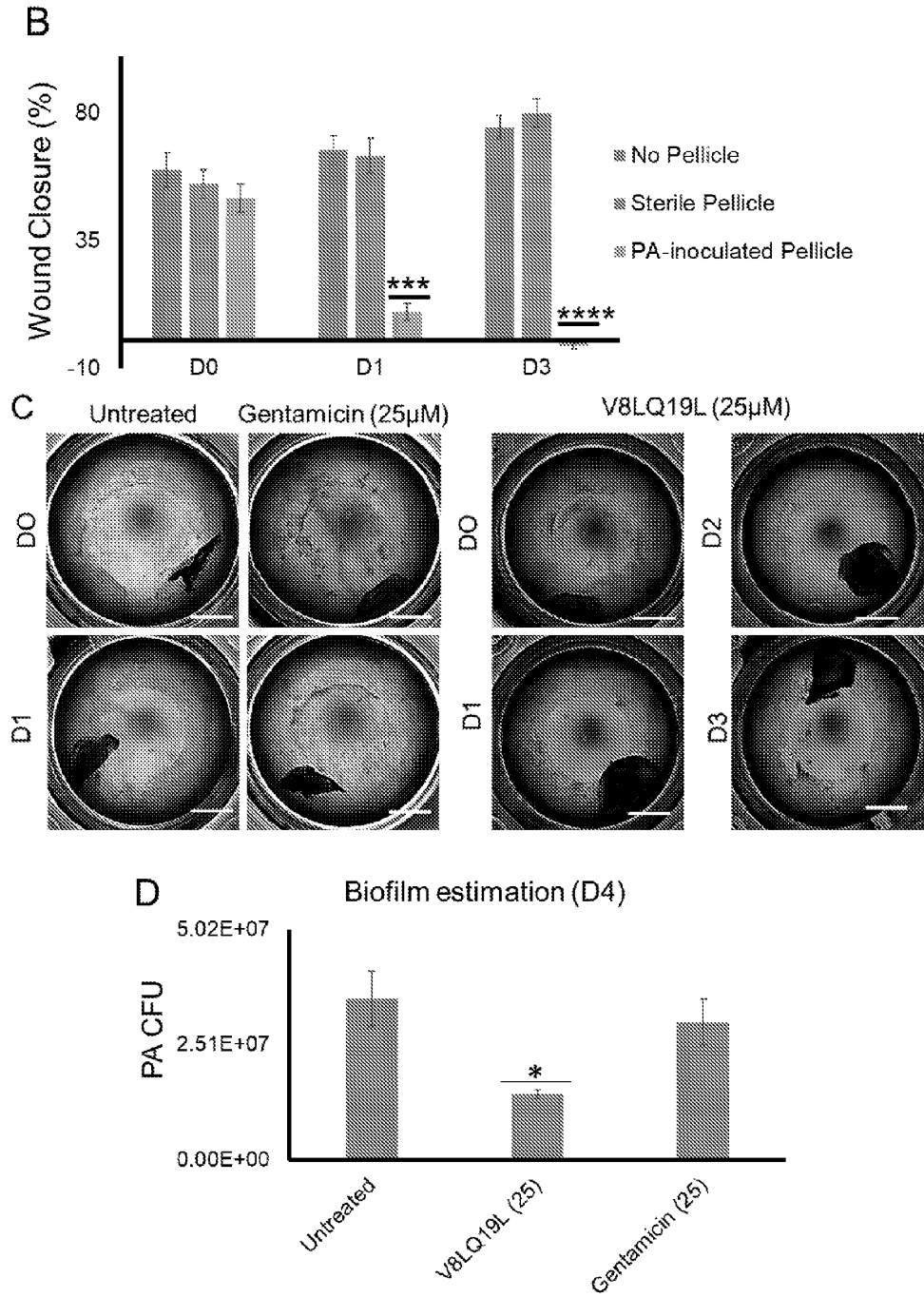


Figure 7

