Support information for

The dual delivery of growth factors and antimicrobial peptide by PLGA/GO composite biofilms to promote skin wound healing

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Supplementary Figures

Fig. S1 SEM images of PLGA and PLGA/GO composite biofilms cross-section. Bar lengths are 50 μm.

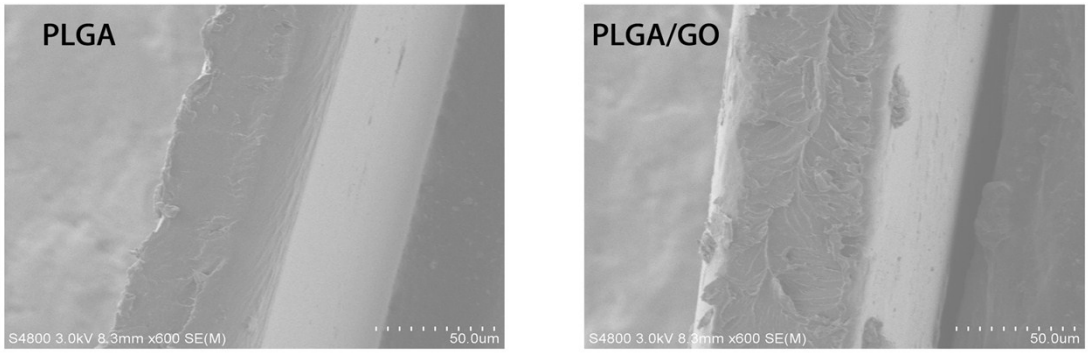
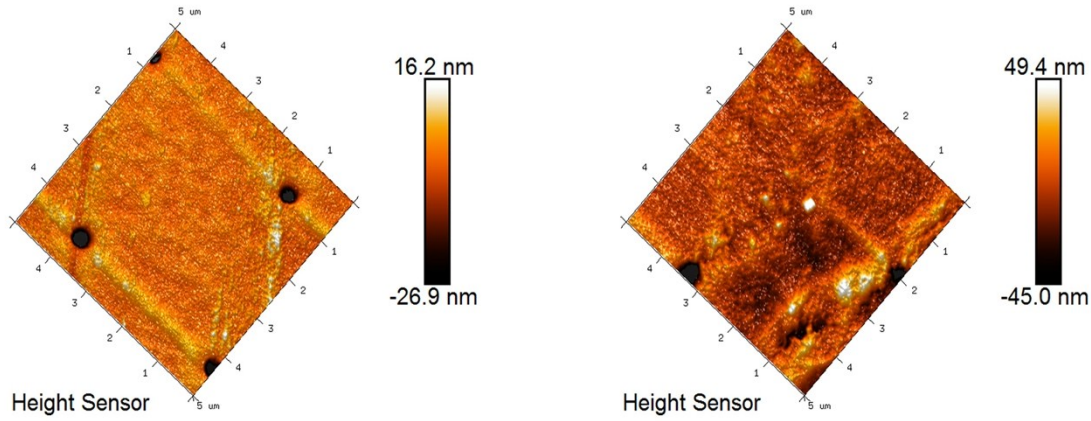


Fig. S2 AFM images of the surface of PLGA and PLGA/GO composite biofilms. The scale for AFM is 5 μm × 5 μm.



Supplementary Methods

SEM images of different composite biofilms cross-section

Different composite biofilms were cut into square pieces and placed onto an aluminum stub pasted with a conducting carbon tape. An ion sputter coating machine was used to coat gold over the sample for 60 s at 20 mA. Samples fixed on the holder were inserted into a scanning electron microscope (ESEM, XL30 FEG, Philips) chamber followed by the evacuation of chamber cavity. The cross-section of different composite biofilms was observed at various locations and recorded. The thickness of composite biofilms cross-section was calculated by measuring at least 4 samples using the ImageJ software.

AFM images of PLGA and PLGA/GO composite biofilms

For multimode scanning probe atomic force microscope (AFM) (N8 NEOSTM, Bruker Nano-GmbH, Germany) analysis, we used the oscillation mode of a Tap190Al-G (budget sensors) probe with a resonance frequency of 180 kHz and a tip radius under 10 nm.