

Investigation of the *in vivo*, *in vitro* and *in silico* wound healing potential of *Pinctada martensii* purified peptides

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Supplementary Material and Methods

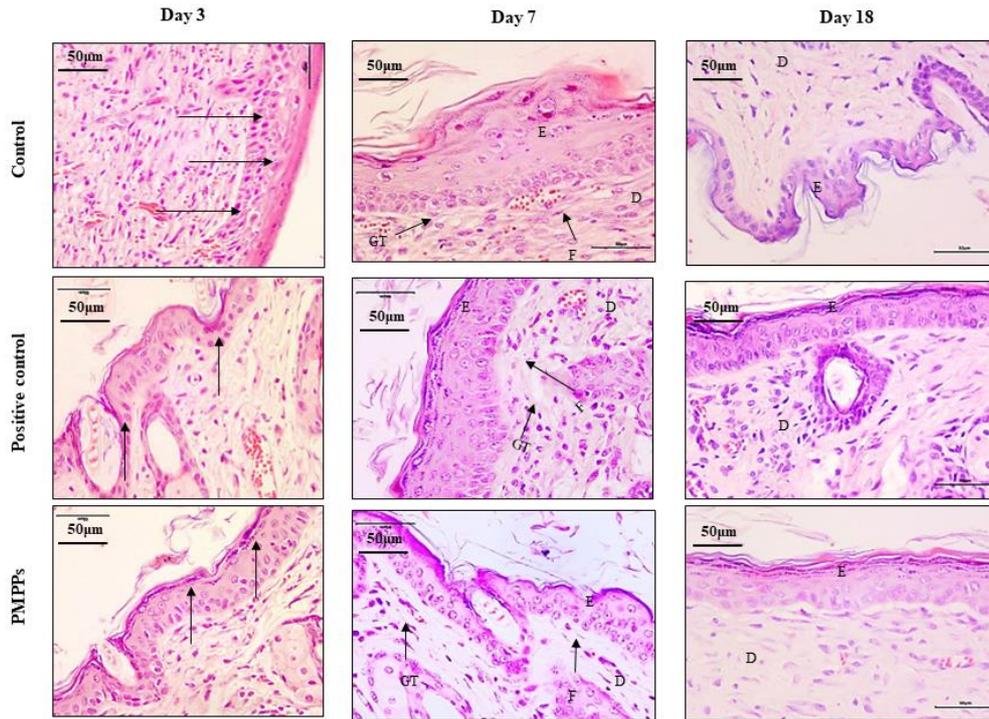


Figure S1. H&E stain histological analysis (40×). Note: Black thick arrows indicate inflammatory cell infiltration. Letters D, E, F, and GT represent the dermis layer, the epidermal layer, fibroblasts, and granulation tissue, respectively.

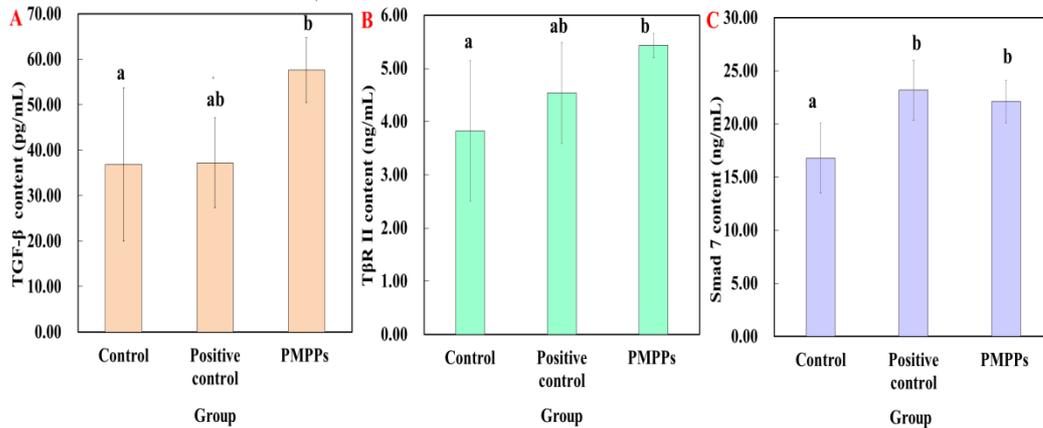


Figure S2. Effects of topical administration of PMPPs on TGF-β/Smad signaling pathway. (A) Effect of PMPPs on the expression of TGF-β. (B) Effect of PMPPs on TβRII expression. (C) Effect of PMPPs on Smad 7 expression. Note: Different superscript letters on the same day indicate significant ($p < 0.05$) and non-significant ($p > 0.05$) differences between groups, respectively.

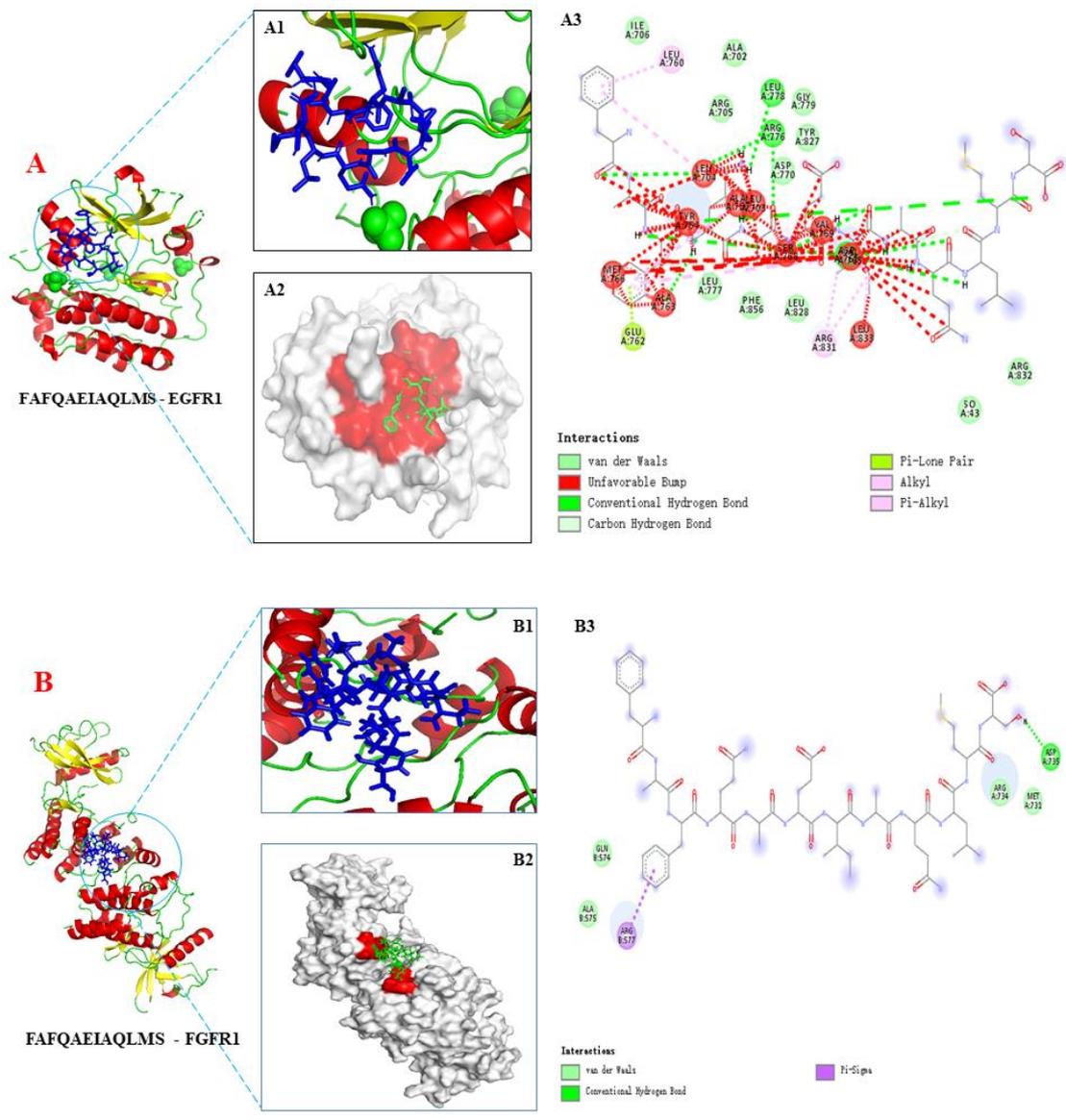


Figure S3. Figure 8. The docking results of PMPPs (FAFQAEIAQLMS) with protein receptors EGFR1/FGFR1. (A1-2 and B1-2) 3D structure of PMPPs - EGFR1/FGFR1 and the process of binding interaction between them. (A3 and B3) 2D interaction diagram of PMPPs - EGFR1/FGFR1.