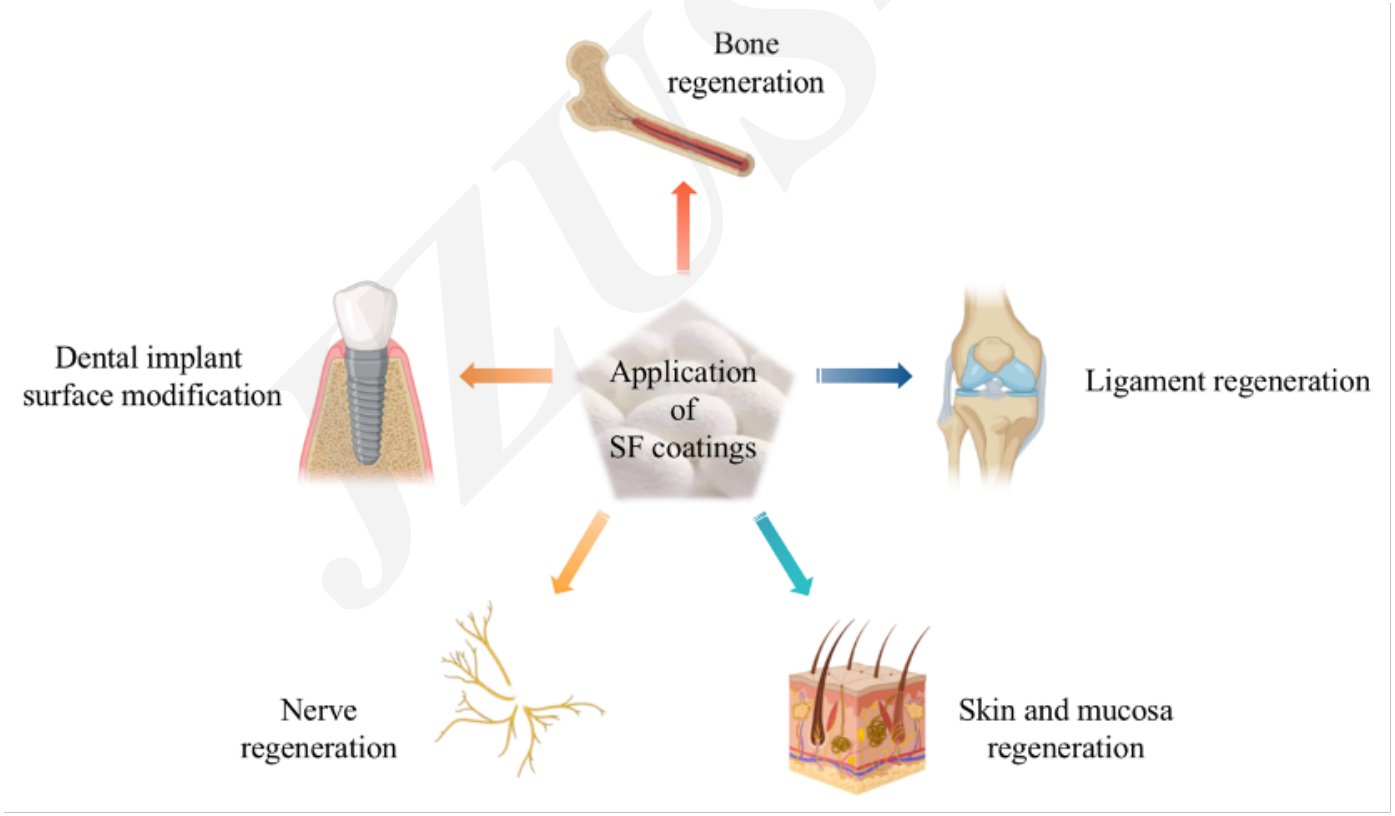
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Application of silk fibroin coatings for biomaterial surface modification: a silk road for biomedicine

Key words: Silk fibroin; Coating; Surface modification; Notch signaling pathway

Research Summary

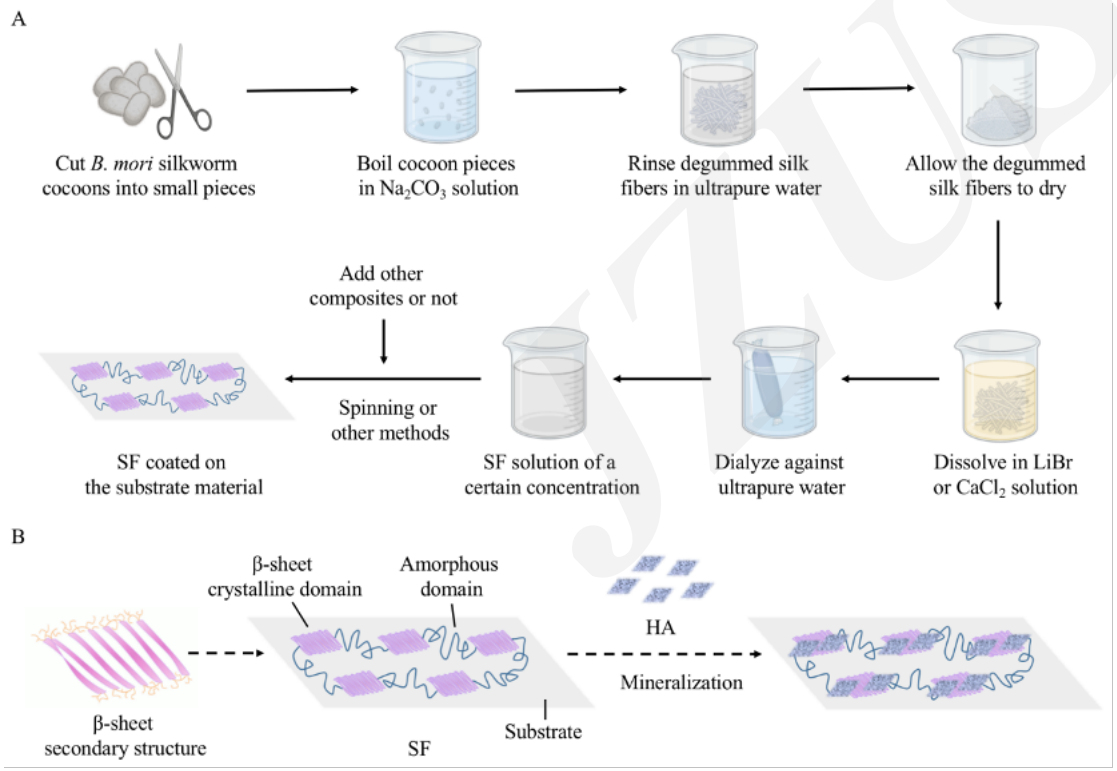
This review mainly focused on focus on the surface modification of biomaterials using SF coatings, demonstrate their various preparation methods on substrate materials, and introduce the latest procedures, and discussed the diverse applications of SF coatings for biomedicine:

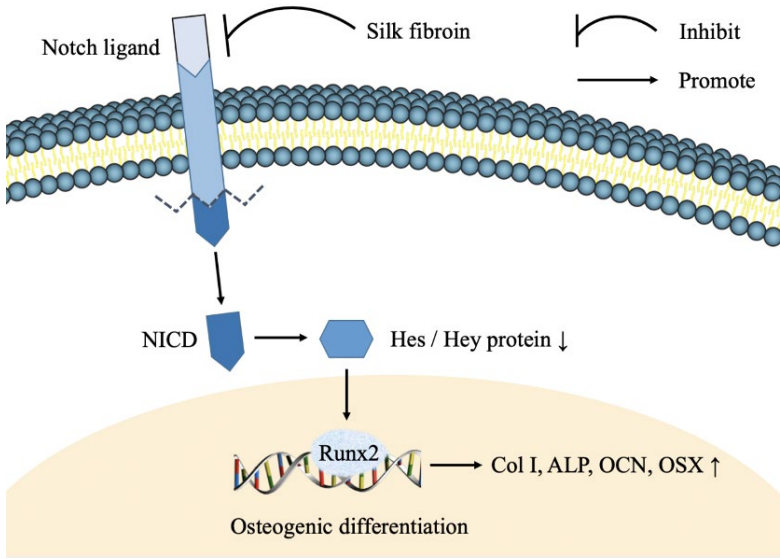


Research Summary

- **Introduction** of the common method to isolate SF from *B. mori* cocoons, and various preparation methods for SF coating on substrate materials

- **Summary** of the mechanism of SF coatings promoting bone regeneration.





Research Summary

A comprehensive table was created to summarize the latest studies about SF-coated biomaterials.

Table 1 | The coating composition, substrate material type, modification method, animal model, and application of each research

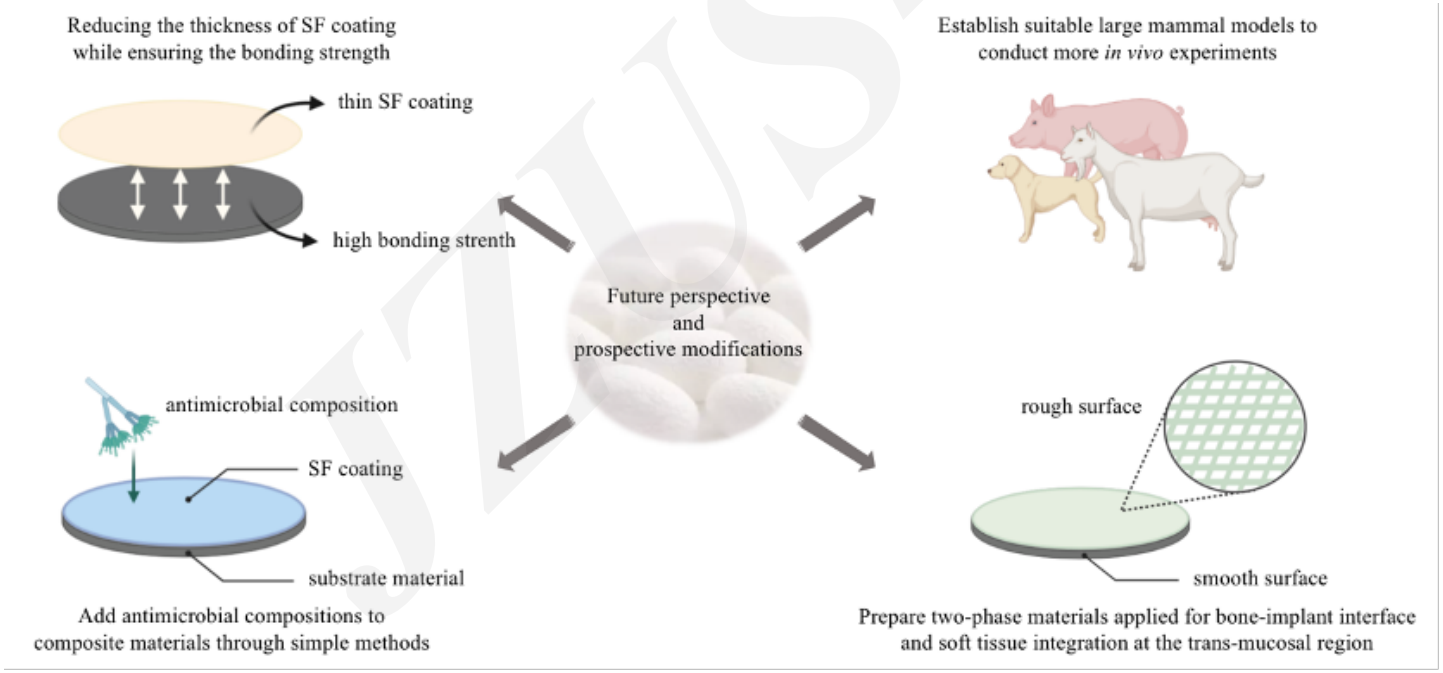


Figure 6 | Future perspectives and prospective modifications of SF coatings.