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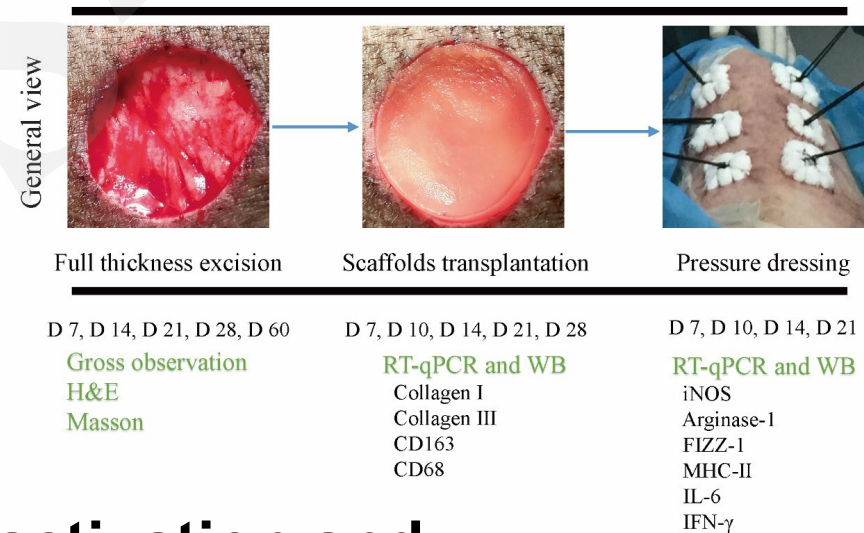
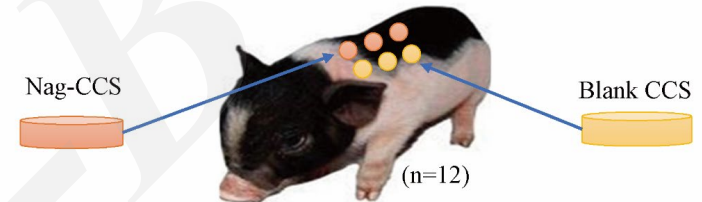
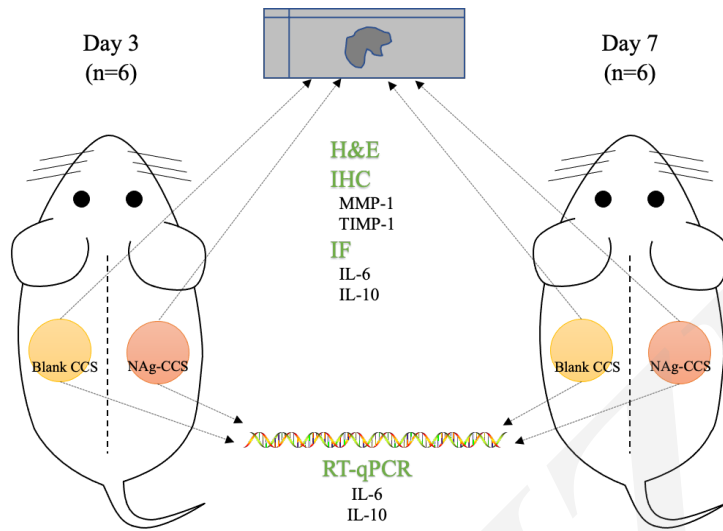
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# **Nanosilver alleviates foreign body reaction and facilitates wound repair by regulating macrophage polarization**

**Key words:** Nanosilver, Macrophages, Implants, Foreign body reaction, Wound repair

# Research Summary

This study mainly focused on function and mechanisms of NAg in foreign body reaction and skin wound healing:



- Suppressing M1 macrophage activation and inflammatory cytokines secretion
- Activation of M2 macrophage and anti-inflammatory cytokines

# ***Innovation points***

- **Construction** of an NAg hybrid collagen-chitosan scaffold (NAg-CCS) using using the freeze-drying method.
- **Systemic analysis** the impacts of NAg on foreign body reaction with subcutaneous graft model and skin implantation model.
- **Emphasis** the importance of inflammation regulation and macrophage conversion.