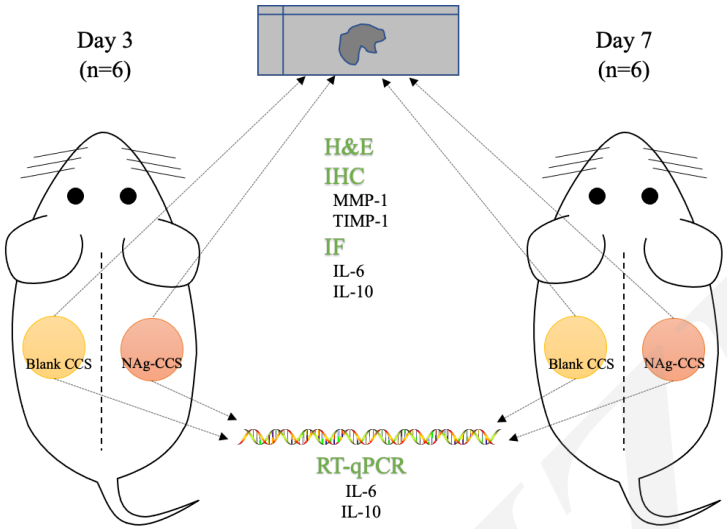
Cite this as: Chuangang YOU, Zhikang ZHU, Shuangshuang WANG, Xingang WANG, Chunmao HAN, Huawei SHAO. Nanosilver alleviates foreign body reaction and facilitates wound repair by regulating macrophage polarization[J]. Journal of Zhejiang University Science B, 2023, 24(6): 510-523.
http://doi.org/10.1631/jzus.B2200447

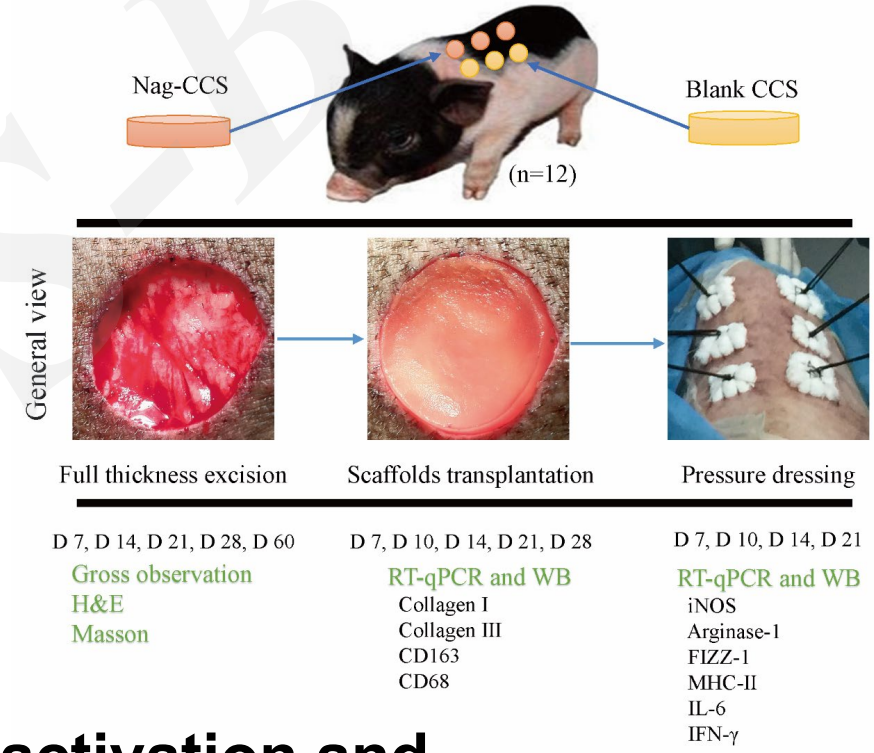
Nanosilver alleviates foreign body reaction and facilitates wound repair by regulating macrophage polarization

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.

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Figure 4