

Cite this as: Yunzi ZHAO, Hui LI, Qinglong GUO, Hui HUI. Multiple characteristic alterations and available therapeutic strategies of cellular senescence[J]. Journal of Zhejiang University Science B, 2023, 24(2): 101-114.

<http://doi.org/10.1631/jzus.B2200178>

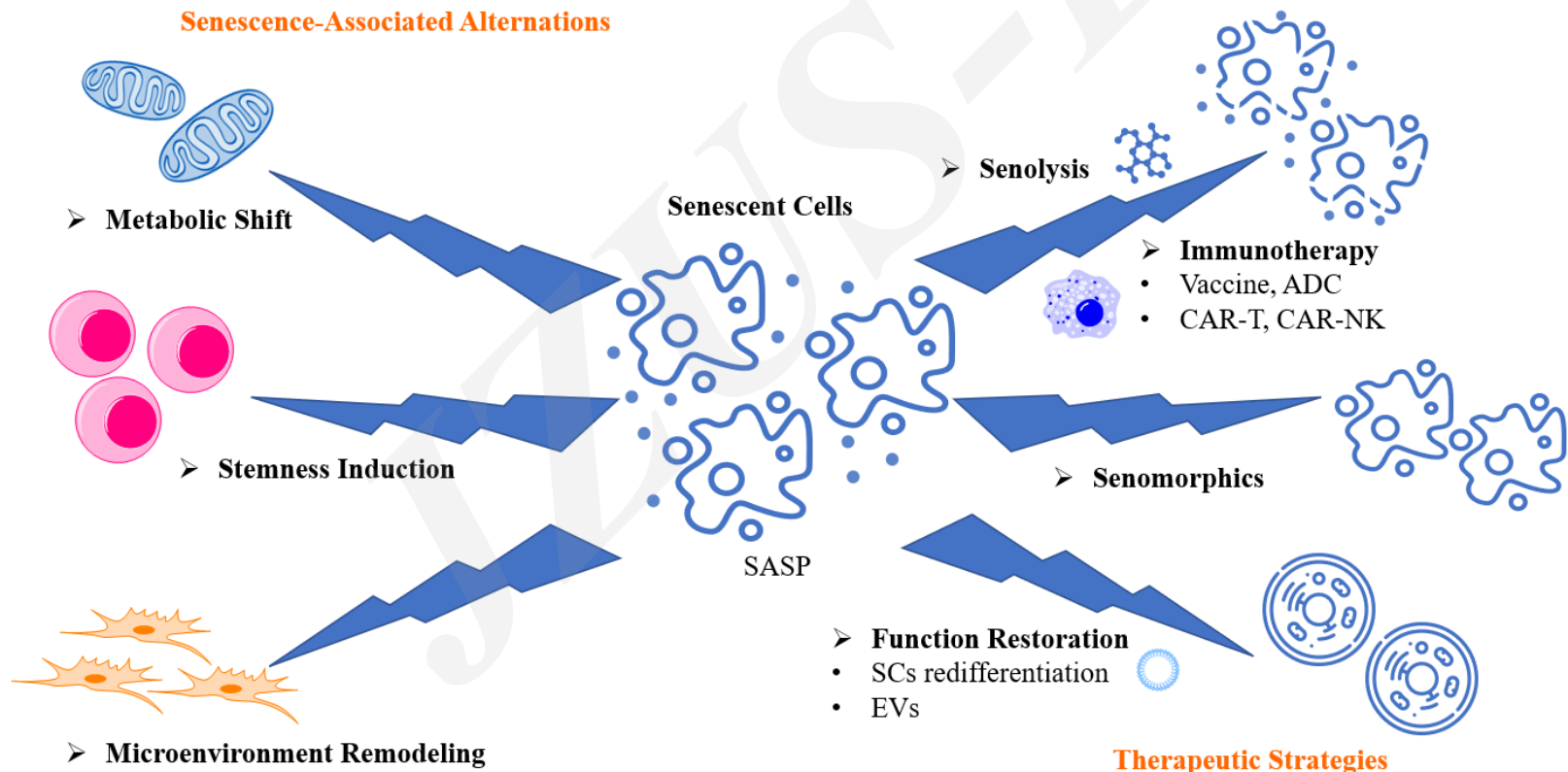
Multiple characteristic alterations and available therapeutic strategies of cellular senescence

Key words:

**Senescence; Metabolism; Stemness; Microenvironment; Senolytic;
Immune surveillance**

Research Summary

This review mainly focused on the characteristic changes associated with cellular senescence and currently available countermeasures.



Innovation points

A series of comprehensive tables were generated to summarize the latest knowledge of cellular senescence and available therapeutic strategies.

Table 1 | Senescence-associated metabolic shifts are both therapeutic challenges and opportunities.

Table 2 | The unanticipated consequences of immunosurveillance and the potential immune escape mechanisms of SnCs.

Table 3 | Existing senolytics and their potential side effects.

Table 4 | Targeting metabolic shifts for senolysis.

Table 5 | Strategies for developing senomorphics.