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Submission To Be Reviewed

Journal Section

Abstract

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Targeted regulation of senescence-associated secretory phenotype with an aptamer-conjugated activatable senomorphic

Research Article

Guidelines

Background: Senomorphics have been considered as an effective alternative paradigm of senotherapeutics to regulate cellular senescenc by inhibiting the deleterious effects of senescence-associated secretory phenotype (SASP) components secreted by senescent cells without However, current senomorphic drugs usually exhibit low selectivity towards senescent cells and inevitably cause unwanted side effects, higl develop innovative senomorphic strategies for the specific regulation of cellular senescence.

Methods: To address this challenge, here we design a novel class of senomorphics with active cell targeting and activatable activities for se SASP by conjugating a senescent cell-targeted aptamer with a SA-β-gal-activated H2S donor. Using senescent BJ cells as a cell model, a ε were performed to evaluate the performance of the engineered senomorphic (Apt-H2SD) for cell-specific regulation of SASP during cellular Results: Apt-H2SD demonstrated specific binding and accumulation to senescent cells over proliferating cells through the aptamer-mediate internalization, Apt-H2SD was efficiently activated by the accumulated SA-β-gal in senescent cells, leading to the release of H2S precursor suppressing the expression of three important SASP factors (IL-6, IL-1β and MMP3) at the mRNA level.

Conclusion: Our results strongly support the potential of Apt-H2SD as a valuable senomorphic. With rational design of the molecular struct provide a general strategy to construct advanced senescencetargeted activatable senomorphics for precise intervention of cellular senesce

Keywords: Senescence-associated secretory phenotype, senomorphics, L1CAM, cellular senescence

Submission Editor

Warren Ladiges <a>IIII editor ant 🕮

Submission Metadata VIEW METADATA

Review Schedule

Editor's Request 2023-05-23 2023-05-25 Your Response Review Submitted 2023-06-07 Review Due 2023-06-06

Review Steps

Notify the submission's editor as to whether you will undertake the review.

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- If you are going to do the review, consult Reviewer Guidelines below.
- Click on file names to download and review (on screen or by printing) the files associated with this submission.

650-3088-2-RV.DOCX 2023-05-04 Submission Manuscript

Supplementary File(s) None

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Review Form 🗬

In addition, you can upload files for the editor and/or author to consult.

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Revisions Required 2023-06-07

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