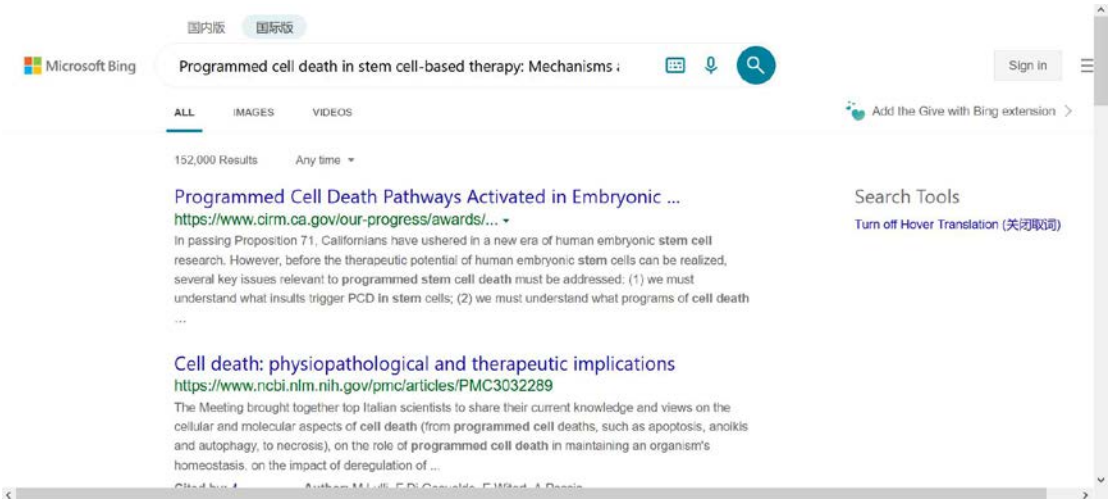
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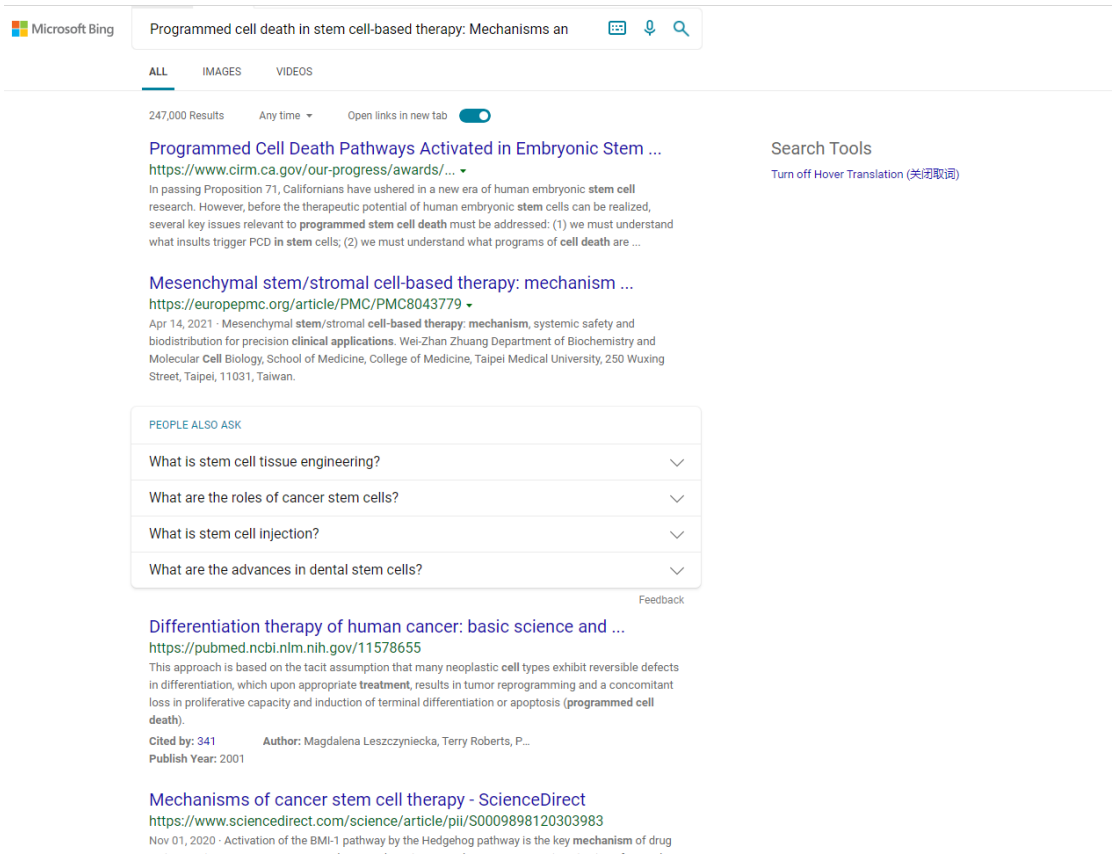
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Apr 14, 2021 · Mesenchymal stem/stromal cell-based therapy: mechanism, systemic safety and biodistribution for precision clinical applications. Wei-Zhan Zhuang Department of Biochemistry and Molecular Cell Biology, School of Medicine, College of Medicine, Taipei Medical University, 250 Wuxing Street, Taipei, 11031, Taiwan.
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This approach is based on the tacit assumption that many neoplastic cell types exhibit reversible defects in differentiation, which upon appropriate treatment, results in tumor reprogramming and a concomitant loss in proliferative capacity and induction of terminal differentiation or apoptosis (programmed cell death).
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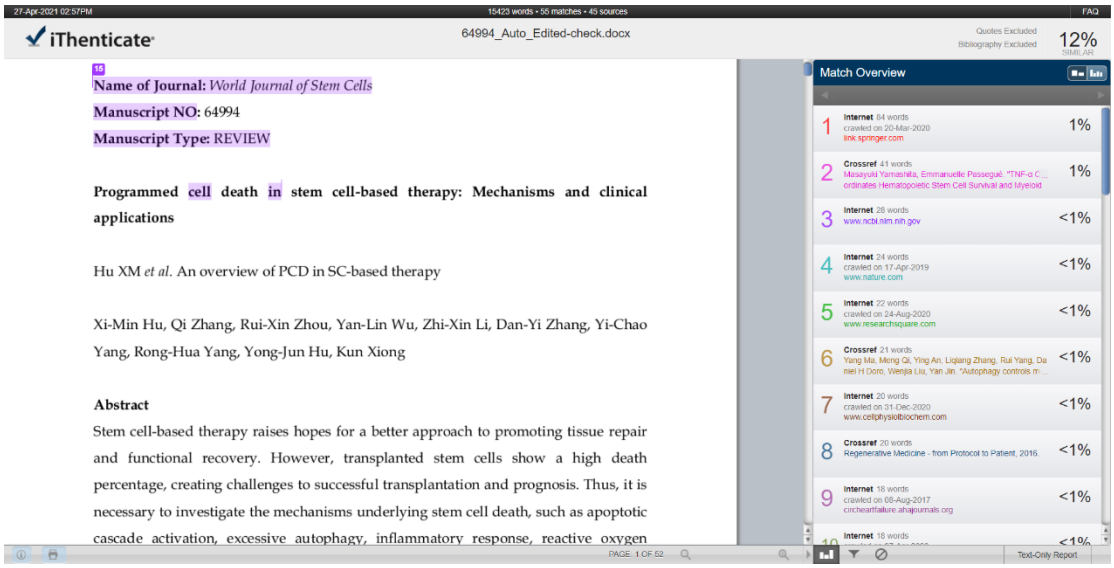

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Programmed cell death in stem cell-based therapy: Mechanisms and clinical applications

Hu XM *et al*. An overview of PCD in SC-based therapy

Xi-Min Hu, Qi Zhang, Rui-Xin Zhou, Yan-Lin Wu, Zhi-Xin Li, Dan-Yi Zhang, Yi-Chao Yang, Rong-Hua Yang, Yong-Jun Hu, Kun Xiong

Abstract

Stem cell-based therapy raises hopes for a better approach to promoting tissue repair and functional recovery. However, transplanted stem cells show a high death percentage, creating challenges to successful transplantation and prognosis. Thus, it is necessary to investigate the mechanisms underlying stem cell death, such as apoptotic cascade activation, excessive autophagy, inflammatory response, reactive oxygen

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Figure 2. **Programmed cell death**: autophagic **cell death**. Autophagy (self-eating) is a survival **mechanism** deployed by cells to cope with conditions of nutrient deprivation. However, unrestrained autophagy can result in genetically **programmed cell death**.

Cited by: 214 **Author:** Fernando Torres Andón, Bengt Fadeel
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Sep 01, 2014 · In the CMC—CXCR4 null mice, increased numbers of CMCs underwent **programmed cell death** in the border zone following MI plus **stem cell therapy**. This phenomenon diminished in the absence of **stem cell** infusion. In addition, far more CPCs accumulated and localized in response to MSCs in the wild-type mice compared with CMC—CXCR4 null mice.

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