

Special Issue

Cellular Senescence as a Therapeutic Target in Cancer: Mechanisms, Challenges, and Therapeutic Opportunities

Message from the Guest Editor

This Special Issue aims to delve into the intricate mechanisms that govern the induction of cellular senescence, explore its dual role in both tumor suppression and promotion, and address the challenges and therapeutic opportunities presented by targeting senescent cells in cancer therapy. Cellular senescence is a complex biological process characterized by a permanent state of cell cycle arrest, often acting as a natural barrier to cancer development. However, senescent cells can also contribute to tumor progression and therapy resistance through their secretory phenotype. Understanding the delicate balance between these opposing roles is crucial for developing effective cancer therapies. Through this Special Issue, we aim to provide a comprehensive overview of the current state of research on cellular senescence in cancer, highlight emerging therapeutic strategies, and foster a deeper understanding of the senescence–cancer axis. We look forward to receiving your contributions and advancing the field together.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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