عنوان مقاله:

Roles of Mesenchymal Stem Cells in Lung Cancer: Challenges, and Opportunities

نویسندگان:

Sare Hirad Asa - *Department of Cellular and Molecular Biology, Faculty of Advanced Sciences and technology, Tehran Medical Sciences Branch, Islamic Azad University, Tehran, Iran*

Issa Layali - *Department of Biochemistry and Biophysics, Faculty of Advanced Sciences and technology, Tehran Medical Sciences Branch, Islamic Azad University, Tehran, Iran*

Ali Vasheghani Farahani - *Department of Cellular and Molecular Biology, Faculty of Advanced Sciences and technology, Tehran Medical Sciences Branch, Islamic Azad University, Tehran, Iran*

خلاصه مقاله:

Lung cancer is one of the most common and malignant types of cancer in the world and the leading cause of cancer-related mortality. advancements in identifying active mutations and stem cells have opened doors for lung cancer therapies, mesenchymal therapy remains a complex and controversial approach. Findings suggest that mesenchymal stem cells, while showing promise, are susceptible to gene mutations and malignancy within the tumor microenvironment. Moreover, their interaction with tumor cells can yield unpredictable outcomes With these interpretations, a void is felt for more comprehensive research and regulatory protocols for mesenchymal therapeutic applications. The review also highlights the multifaceted roles and potential benefits of mesenchymal therapy in lung cancer, along with the existing challenges and future opportunities for investigation.

کلمات کلیدی:

Lung cancer, Mesenchymal stem cells, MSCs, Lung carcinoma, Stem cell therapy