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Stem cell drugs: the next generation of pharmaceutical products

Phuc Van Pham

Director, Key Laboratory of Stem Cell Research and Application Vice-Director, Key Laboratory of Cancer Research University of Science, Vietnam National University, Ho Chi Minh city Viet Nam

Abstract

Stem cells represent a new treatment option in medicine and pharmacy. Stem cells have been increasingly used for the treatment of many diseases. In fact, they have spurred a new age of medicine called regenerative medicine. In recent years, regenerative medicine has become a new revolution in disease treatment, especially with the use of stem cell drugs. Stem cell drugs refer to live stem cell based products that used as drugs for particular diseases. Unlike autologous stem cell transplantation, stem cell drugs are "off-the-shelf" products that are ready to be used without requirement of any further manipulation. This review aims to summarize some of the approved stem cell drugs, and discuss the revolution of regenerative medicine and personalized medicine. As well, the review will discuss how stem cell drugs have led to a new direction in stem cell therapy, providing a new platform for patient needs.

*For correspondence:

pvphuc@hcmus.edu.vn

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References