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脐带间充质干细胞与脐血造血干细胞临床应用的研究进展

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Title: Research Progress of Clinical Application of Umbilical Cord Mesenchymal Stem Cells and Umbilical Cord Blood Hematopoietic Stem Cells

作者: 冯磊 曹宁 梁素丽 冯春 郭镭
100730 北京, 首都医科大学附属北京同仁医院

Author(s): [Research Progress of Clinical Application of Umbilical Cord Mesenchymal Stem Cells and Umbilical Cord Blood Hematopoietic Stem Cells](#)
(Beijing) Biological Engineering Co., LTD, Beijing 100018, China.

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摘要: 人胚胎干细胞(HESC)系及生殖细胞系的建立,被美国时代周刊(Times)列为20世纪世界十大科技成就之首。脐带间充质干细胞(UC MSC)和脐血造血干细胞(UCB HSC)的研究作为其中的一部分,具有广阔的临床应用前景。UC MSC和UCB HSC是具有自我更新、分化能力和产生多系或单系特异细胞功能的细胞,位于细胞发育谱系的顶端。笔者拟对UC MSC和UCB HSC的来源、生物学特点及其临床应用等方面的进展,综述如下。

Abstract: The building of human embryonic stem cell lines and germ cell lines was called the world top ten scientific and technological achievements in the 20th century by the Times of America. As one part of it, the application of umbilical cord mesenchymal stem cells (UC MSC) and umbilical cord blood hematopoietic stem cells (UCB HSC) has a great application prospect. UC MSC and UCB HSC have self renewal, differentiation ability and produce more or single specific cell function of cells, located in the top of the cell development spectrum. This article will analyze the source, biological characteristics and clinical application of UC MSC and UCB HSC.

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