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Urine-derived stem/progenitor cells: A focus on their characterization and potential

Perrine Burdeyron, Sébastien Giraud, Thierry Hauet, Clara Steichen

Abstract

Cell therapy *i.e.*, the use of cells to repair an affected tissue or organ is at the forefront of regenerative and personalized medicine. Among the multiple cell types which have been used for this purpose [including adult stem cells such as mesenchymal stem cells (MSCs) or pluripotent stem cells], urine-derived stem cells (USCs) aroused interest in



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Multipotent differentiation **potential** of **urine-derived stem cells**. Our data demonstrated that USCs are capable of osteogenic, chondrogenic and adipogenic myogenic, neurogenic and endothelial differentiation [].After being induced in the appropriate condition in vitro, each type of differentiated USC expressed specific markers at the gene, protein, and cellular levels.

Cited by: 58**Author:** Danian Qin, Ting Long, Junhong Deng, Y...**Publish Year:** 2014

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Jul 11, 2018 · Therefore, **urine-derived** stem cells may also be termed **kidney progenitor cells** or **kidney stem cells** . **Urine stem cells** also express a small proportion of **endothelial**, **epithelial**, **smooth muscle**, and interstitial markers (Table 1), and the significant highlight of these cells is ...

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