

## عنوان مقاله: Imprinting Cell Membrane : Recent Progress and Future Perspective

محل انتشار: چهاردهمین کنگره بین المللی سلول های بنیادی رویان (سال: 1397)

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## خلاصه مقاله:

Imitating the natural environment of isolated cells is well believedas an important criteria for regulation of cell fate. Previousreports showed that cell imprinted substrates can offerinvaluable simple means of investigation in cell differentiation. In this method, micro/nano-scale features of cell membrane aretransferred to a culture surface. Afterwards, this substrate is utilizedas substitute for prevalent polystyrene tissue culture plate. It was observed that cell imprinted substrates can be utilized forinduction of chondrogenic, keratinogenic, tenogenic, myogenicand osteogenic differentiation in adipose derived mesenchymalstem cells. In addition, the results also showed promising outcomesin migration, proliferation and differentiation of othercell types. Therefore, safety and efficiency of cell imprintingmethod can enhance the quality of tissue regeneration both incell free and cell based strategies. Taking .together, cell imprintingmethod can be applied to improve the development of nextgenerationstem cell culture materials and implant interfaces

كلمات كليدى:

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