

Biotechnology and Nanotechnology in Stem Cells

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Introduction

Nanotechnology and Biotechnology may provide new strategies for regenerative medicine, including better tools to improve or restore damaged tissues, according to a review paper that summarizes the current state of knowledge on nanotechnology with application to stem cell biology. Researchers have found that the adhesion, growth, and differentiation of stem cells are likely controlled by their surrounding microenvironment, which contains both chemical and physical cues. These cues include the “Nano topography” and biotechnology of the complex extracellular matrix or architecture that forms a network for human tissues.

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