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Hair follicle stem cells: *in vitro* and *in vivo* neural differentiation

Nowrus Najafzadeh, Banafshe Esmailzade, Maryam Dastan Imcheh

Abstract

Hair follicle stem cells (HFSCs) normally give rise to keratinocytes, sebocytes, and transient amplifying progenitor cells. Along with the capacity to proliferate rapidly, HFSCs provide the basis for establishing a putative source of stem cells for cell therapy. HFSCs are multipotent stem cells originating from the bulge area. The importance of these cells arises from two important characteristics, distinguishing them from all other adult stem cells. First, they are accessible and proliferate for long periods. Second, they are multipotent, possessing the ability to differentiate into mesodermal and ectodermal



Hair follicle stem cells: In vitro and in vivo neural differentiation



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