Video Article

Targeted Expression of GFP in the Hair Follicle Using Ex Vivo Viral Transduction

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Abstract

There are many cell types in the hair follicle, including hair matrix cells which form the hair shaft and stem cells which can initiate the hair shaft during early anagen, the growth phase of the hair cycle, as well as pluripotent stem cells that play a role in hair follicle growth but have the potential to differentiate to non-follicle cells such as neurons. These properties of the hair follicle are discussed. The various cell types of the hair follicle are potential targets for gene therapy. Gene delivery system for the hair follicle using viral vectors or liposomes for gene targeting to the various cell types in the hair follicle and the results obtained are also discussed.

Video Link

The video component of this article can be found at https://www.jove.com/video/708/

Protocol

For more information on targeted expression of GFP in the hair follicle using ex vivo viral transductionplease, visit Springer Protocols.

Disclosures

The authors have nothing to disclose.

