

**A GUIDE FOR PATIENTS**

# **LITERATURE**

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literature page



## ❖ Eye Disease

### ➤ Stem Cell Treatment of Degenerative Eye Disease

Stem cell therapies are being explored extensively as treatments for degenerative eye disease, either for replacing lost neurons, restoring neural circuits, or, based on more recent evidence, as paracrine-mediated therapies in which stem cell-derived trophic factors protect compromised endogenous retinal neurons from death and induce the growth of new connections.

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### ➤ Stem cell in the eye

In the adult organism, all tissue renewal and regeneration depends ultimately on somatic stem cells, and the eye is no exception. The importance of limbal stem cells in the maintenance of the corneal epithelium has long been recognized, and such cells are now used clinically for the repair of a severely damaged cornea.

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## ➤ Stem Cell and Eye Development

Stem cells hold promise in the treatment of many different types of diseases. The generation of induced pluripotent stem cells (iPSCs) by reprogramming somatic cells has provided unprecedented opportunities for studying basic biology and modeling human diseases. In addition, the differentiation of embryonic stem cells, or iPSCs into different functional cell types also permits insights into disease mechanisms.

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