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Author: Jorge L. Alió del Barrio, Jorge L. Alió

Publish Year: 2018

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Author: Jorge L. Alió Del Barrio, Jorge L Alió

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The PET cells within the transition area may be a promising cell source for replacing worn-out endothelium in vivo or boosting the number of endothelial cells in vitro on potential corneal graft materials. As mentioned in the previous section, ICE syndrome is manifested by abnormal proliferative CE cells that grow and cover the angle.

Cited by: 70

Author: Wing Yan Yu, Carl Sheridan, Ian Grierson...

Publish Year: 2011

Academic Editor: Ken-ichi Isobe

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Apoptosis of corneal stromal cells in the anterior corneal stroma can be observed at the early stage

Sphere-forming corneal cells repopulate dystrophic keratoconic stroma: Implications for potential therapy

Himanshu Wadhwa, Salim Ismail, Jennifer J McGhee, Bert Van der Werf, Trevor Sherwin

Abstract

BACKGROUND

Keratoconus is a degenerative corneal disease characterised by aberrant cell behaviour and loss of matrix that can result in vision loss. Cells extracted from peripheral corneas can form stem cell-enriched spheres, which have shown the potential to repopulate the normal peripheral corneal stroma in vitro upon sphere implantation, but have not been previously studied in keratoconic tissue.

AIM

To investigate therapeutic potential of stem cell-enriched spheres, formed from extracted peripheral human corneal cells, when introduced to keratoconic tissue.

METHODS

Stem cell-enriched spheres were formed from extracts of normal cadaveric human peripheral corneal cells. These spheres were implanted into incisions created in full thickness, and onto the surface of 10 µm thin sections of, keratoconic and normal stromal tissues *in vitro*. Tissue sections were used to maximise use of limited keratoconic tissue available for research. Living cells were stained with Calcein-AM and visualised with

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Nov 01, 2018 · **Corneal stromal stem cells** (CSSCs) The limbal palisades of Vogt form a niche that contains both limbal **epithelial stem cells** (LESCs) and **corneal stromal stem cells** (CSSCs) . CSSCs express genes typical of descendants of the neural ectoderm such as PAX6, adult **stem cell** markers such as ABCG2 and MSC markers such as CD73 and CD90 [33, 34]. They exhibit clonal growth, self ...

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Author: Jorge L. Alió del Barrio, Jorge L. Alió

Publish Year: 2018

Stem Cell Spheres for Corneal Regeneration: Therapy and ...

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Sphere-forming cells from peripheral cornea represent a potential source of progenitor cells for treatment of corneal degenerative diseases.

Sphere-forming cells from peripheral cornea demonstrate ...

https://www.researchgate.net/publication/303716837_Sphere-forming_cells_from...

Methods Sphere-forming cells were isolated from peripheral cornea for potential use as transplantable elements for limbal stem cell repopulation and limbal reconstruction.

(PDF) Cellular therapy of the corneal stroma: a new type ...

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Intraocular pressure and endothelial cell density remained stable. Conclusions: Cellular therapy of the human corneal stroma in vivo with autologous ADASCs appears to be safe.

Author: Jorge Alió Del Barrio, Jorge L Alió

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