



**TECHNICAL RESEARCH DOCUMENTS
AND MEDICAL PUBLICATIONS FOR:**

EYESIGHT

January 2018

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Dental pulp stem cells have been implanted in an animal model to reconstruct cornea of the eye. This is promising for the development of human cornea reconstruction therapies to treat damage due to limbal stem cell deficiencies, chemical injury of the eye, dry eye, and ageing.

Paper 1:

Corneal reconstruction with tissue-engineered cell sheets composed of human immature dental pulp stem cells.

Gomes JA, Geraldes Monteiro B, Melo GB, Smith RL, Cavenaghi Pereira da Silva M, Lizier NF, Kerkis A, Cerruti H, Kerkis I.

Invest Ophthalmol Vis Sci. 2010 Mar;51(3):1408-14. Epub 2009 Nov 5. PMID: 19892864

<http://www.ncbi.nlm.nih.gov/pubmed/19892864>

Paper 2:

Intravitreally transplanted dental pulp stem cells promote neuroprotection and axon regeneration of retinal ganglion cells after optic nerve injury.

Mead B, Logan A, Berry M, Leadbeater W, Scheven BA. "Intravitreally transplanted dental pulp stem cells promote neuroprotection and axon regeneration of retinal ganglion cells after optic nerve injury." Invest Ophthalmol Vis Sci (2013). PMID: 24150755

<http://www.ncbi.nlm.nih.gov/pubmed/24150755>