

Optic nerves were ~~exposed~~ surgically exposed in ~~anaesthetized~~ adult Sprague Dawley rats ~~through using~~ a supraorbital approach and crushed using ~~the an aneurysm clip~~ (YASARGIL) ~~aneurysm clip~~, which was placed 2 mm behind the posterior eye pole, as described in previous reports. Cultured neural stem cells (NSCs) were transplanted into the subretinal space immediately after the optic nerve crush using a transscleral approach. A 33-~~gauge~~ G blunt needle attached to a 10- μ L syringe (Hamilton, Reno, NV) was introduced tangentially through the sclerotomy site into the subretinal region ~~and, causing~~ caused retinal detachment. The retinal detachment was ~~confirmed~~ microscopically confirmed. The same procedure was ~~then~~ repeated to slowly inject a suspension of pigment epithelium-derived factor (PEDF) modified NSCs (2 μ L of 2.0 ~~x~~ $\times 10^5$ cells). In this study, 72 rats ~~with~~ under going optic nerve injury were randomly assigned to ~~3~~ three groups: ~~a group with that received~~ injections of phosphate-buffered saline (PBS) (n = 24), ~~a group that received~~, ~~group with~~ weekly injections of PEDF (n = 24), ~~and a group that received~~, ~~and group with~~ PEDF-modified NSCs (n = 24). Subsequently, 0.67 nM of PEDF dissolved in 5 μ L of sterile PBS was injected immediately after ~~the~~ optic nerve crush (day 0 ~~days~~) and at 1 and 2 ~~1 week and 2 weeks~~ thereafter. ~~The~~ Rats (from each group) were examined at each ~~of the~~ time points post-injection (2 ~~or~~ and 4 weeks). At each time point, ~~S~~ samples were harvested and placed ~~at each time point~~ into a protein extraction buffer. Equal amounts of protein were denatured for 5 ~~min~~ utes at 95 °C in a sample buffer and then separated by sodium dodecyl sulfate polyacrylamide gel electrophoresis (~~SDSPAGE~~).

Comment [A1]: In American English, words with "ae" such as anaesthetic, leukaemia, and anaemia lose the "a" and become anesthetic, leukemia, and anemia, respectively.

Comment [A2]: Abbreviations are generally defined at their first use in the text, and the abbreviated form is consistently used thereafter.

Comment [A3]: Generally, two or more words that come before a noun they modify and act as a single idea are hyphenated to ensure the idea is communicated clearly.

Comment [A4]: Spaces are generally inserted before and after arithmetic symbols.