



## Correction to: Transplantation of Human Chorion-Derived Cholinergic Progenitor Cells: a Novel Treatment for Neurological Disorders

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The original version of this article unfortunately contained a mistake in the affiliation. Affiliation 1 should be read as “Neuroscience Research Center, Baqiyatallah University of Medical Sciences, Tehran, Iran”. The original article has been corrected.

Mistakes were noted also at the figure captions as the descriptions of Figs. 3, 4, and 5 were interchanged. The authors hereby publish the correct captions below.

Fig. 3 Transplanted of BFCN progenitor cells migrate into the adult hippocampus and express markers of

cholinergic neurons. Serial sections of 500  $\mu\text{m}$  of the hippocampus (nuclei and grafted BFCN progenitor cells were stained with DAPI (blue) and DiI (red), respectively) and a distribution of transplanted BFCN progenitor cells expressing DiI after 1 and 3 months were determined by IHC which is showed that transplanted BFCN progenitor cells dispersed after grafting into recipient rats in spite of the wide-ranging hippocampal cell death resulting from  $\text{A}\beta$  injection. Scale bar = 200  $\mu\text{m}$

Fig. 4 Immunohistochemical images of rat brain after 1 and 3 months cell transplantation. Red DiI-labeled cells were detected in injured sites in hippocampus. The total number of the NEUN, ChAT, ISL, and nestin-positive

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cells were counted in each field and data showed that BFCN efficiently engrafted in hippocampus compared with hCMSCs posttransplantation. The majority of transplanted BFCN progenitor cells significantly express nestin on 1 month and NEUN and ChAT on 3 months nuclei were stained with DAPI. Scale bar = 100  $\mu$ m

Fig. 5 Effects of BFCN progenitor cell transplantation on beta amyloid plaques formation. **a** Beta amyloid was

detected in rat hippocampus (red). GFAP was identified in activated astrocytes (green). **b** There were no significant differences in total number of beta amyloid plaques between groups before and after treatment. **c** The concentration of secreted Ach and activity of AchE were quantified by ELISA analyses for hCMSC-derived BFCN on 3 months after transplantation (\*\* $P < 0.001$ , \* $P < 0.05$ ). Scale bar = 100  $\mu$ m