

## عنوان مقاله:

Generation of motor neurons from human amygdala-derived neural stem-like cells

**محل انتشار:** مجله علوم یایه پزشکی ایران, دوره 21, شماره 11 (سال: 1397)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Objective(s): Among several cell sources, adult human neural stem/progenitor cells (hNS/PCs) have been considered outstanding cells for performing mechanistic studies in in vitro and in vivo models of neurological disorders as well as for potential utility in cell-based therapeutic approaches. Previous studies addressed the isolation and culture of hNS/PCs from human neocortical and hippocampal tissues. However, little data are available on hNS/PCs obtained from the adult human amygdala.Materials and Methods: The present study explored the capacity of the amygdala harvested from resected brain tissues of patients with medically refractory epilepsy to generate neurosphere-like bodies and motor neuron-like cells.Results: Although the proliferation process was slow, a considerable amount of cells was obtained after the "rd passage. In addition, the cells could generate motor neuron-like cells under appropriate culture conditions. Conclusion: Isolation and culture of these cells enable us to improve our knowledge of the role of the amygdala in some neurological and psychological disorders and provide a novel source for therapeutic .cell transplantation

## کلمات کلیدی:

Brain, Hippocampus, Intractable epilepsy, Motor Neuron, Neural stem cells

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