

## عنوان مقاله:

Caspase inhibition and natural neuron death

## محل انتشار:

چهارمین همایش ملی بیوتکنولوژی ایران (سال: 1384)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

Programmed cell death (PCD) during which up to 50% of the neurons die in a certain period of time, occurs in the developing nervous system. Proteases, among them caspases, are known to be involved in cell death. To investigate if any specific protease(s) has a key role in PCD, chicken embryos were treated daily from E6-E9 with different protease inhibitors in this study. Among the inhibitors available in market, those for the caspase inhibition in general and for the inhibition of caspase 8, caspase 9 and calpain were used. Embryos were killed at E10 and neurons were counted in ciliary ganglia (CG). As expected, there was a significant increase in neuron numbers in CGs of embryos treated with a general caspase inhibitor. Interestingly, among the other CGs, there was a significant increase in neuron numbers only in those treated with caspase 9 inhibitor. These results suggest a key role of caspase 9 in the intracellular pathway of PCD.

## کلمات کلیدی:

PCD, caspase, ciliary ganglia , chick embryos

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/45402>

