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Role of stem cells and astrocytic glial cells in reparative histogenesis in telencephalon of masu salmon *Oncorhynchus masou*

Presently mechanisms of repair and post-embryonic histogenesis are actual problems for the study. We have found that in the telencephalon *O. masou* there are undifferentiated cells labeled GFAP and vimentin, but no positive astrocytic glial cells. After mechanical injury in the dorsal region increases the number of cells expressing GFAP and vimentin. We have seen neurogenic niches with different cells and radial glial fibers. The results of doublecortin labeling showed the formation of big amount of young neurons in the periventricular region and the migrating cells in the deeper layers of the parenchyma after the injury. There were found solitary mitotically dividing cells and small cells that express GFAP, vimentin and doublecortin in the parenchyma and in the proliferative zone as a result of a traumatic impact. This work were supported by Program of fundamental investigation FEB RAS «Far East» 2015-2017 (grant № 15-1-6-116) and Grant of President of Russian Federation (MD-4318.2015.4)

Biography

Eva Igorevna Zharikova got a bachelor degree and now study a master program at the Far Eastern State University by specialty cell biology.

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