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EVERSION OF TELENCEPHALON – THE EVOLUTIONARY SPECIFICITY OF ACTINOPTERYGIAN FISH

Summary

Actinopteryngian fish constitute the biggest group of living vertebrates, which currently comprises around 30 thousand species. Within this taxonomic group there occurs a huge differentiation in respect of anatomy, behaviour and ecological environment.

In the last few years we have observed an increasing interest of scientists in the morphogenetic structure of the telencephalon of actinopteryngians. *Danio rerio*, a model organism for this group of fish, is increasingly used in studies on early phase of brain development. What particularly deserves attention is the distinct type of development of this part of brain in comparison with that of other vertebrates. The cause of this diversity is a phenomenon called eversion. This work consists an attempt to describe the phenomenon of eversion, which still needs further work to explain the causes and molecular mechanisms of cognition and behavioural effects of appearance of this process.

Key words: Actinopterygii, eversion, telecephalon