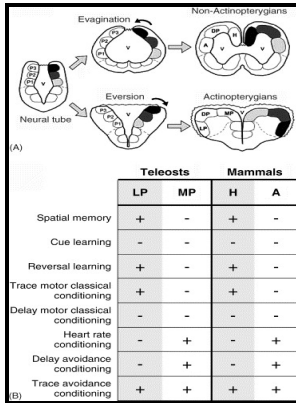


Comparative correlative neuroanatomy of the vertebrate telencephalon

Macmillan - Comparative Correlative Neuroanatomy of the Vertebrate Telencephalon



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Comparative correlative neuroanatomy of the vertebrate telencephalon (Book, 1982) [public-docs.talentcoach.ir]

Arrowheads point to laterally displaced labeled cells.

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In addition, differences are observed between particular ventricular zones in terms of proliferation; so that, in general, the proliferation is higher in some of them such as in the subpallium, being more prominent in the proximities of the lamina terminalis and close to the preoptic recess. According to , it is in this stage when a sulcus intraencephalicus anterior is identified for the first time running dorsoventrally from the vicinity of the habenular commissure down to the preoptic recess Figures A—D.

Frontiers

This commissure is also tiny and poorly developed in adult specimens, even in the anadromous P. They are observed exclusively in the proximity of the ventricular surface intermingled with the ependymal and subependymal cells, where they become spherical before division ; ; reviewed in ;

Comparative Vertebrate Neuroanatomy

In the last years, the expression patterns of several regulatory genes were studied during the embryonic and early prolarval development showing striking similarities with those reported in gnathostomes, but also some differences. This disparity may, in part, be explained by dilutional effects of multiple mitoses on labeling due to the different protocol employed see above. In larvae exposed to the BrdU during 16 days Figures C,F , a considerable number of BrdU-labeled cells appear laterally displaced in the neural tube, with some of them located far away from the ventricular surface arrowheads in Figures C,F.

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Both of them are hollow structures with their ventricles connected with the median third diencephalic ventricle through a common interventricular

foramen or foramen of Monroe. Moreover, the LCM-3 antibody a lamprey NF-specific monoclonal antibody , used as specific neuronal marker, does not seems to label most of the neuronal cell bodies in the gray matter spinal cord see their Figures 10A,D where only two dorsal cells are weakly labeled with this marker.

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The first telencephalic immunolabeled cells appear after hatching by 18 dpf prolarvae , in the outer part of the periventricular proliferating layer of the primordial hemispheres Figure D. Lampreys have a very small brain, as compared with most gnathostomes, and their telencephalon, in particular, is very tiny.

Frontiers

From these studies it was concluded that the presence of proliferation discontinuities in the ventricular zone of PCNA-labeled sections could be interpreted as putative neuroanatomical limits throughout the lamprey brain ; this proliferating marker is, therefore, of help to study and compare the evolution of the nuclear organization and topographical extension of different neuronal entities in the developing brain.

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There is a general increase of immunolabeled cells with the increase of the BrdU exposure time. The lamina terminalis continues dorsally with the rostralmost portion of the roof plate represented by the neuroporic recess Figure. In addition, some migrating cells start to colonize the primordium of the cerebral hemispheres.

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