

# Theoretical Aspects of Neuroontogenetical Research

**Trojan S.**

program moderator of the Fourteenth Neuroontogenetical Discussion Day

In the Institute of Physiology in Prague the Fourteenth Neuroontogenetical Day was held on December 1, 2004. PhD. students and young scientists from two institutes presented their recent scientific findings in the field of neuroontogeny. The aim of research in neuroontogeny is to extend the knowledge on the mechanisms of development and to learn how various factors can modulate it. Research in ontogeny represents either a methodological approach solving a particular question in physiology or it can be an integral scientific program with impact upon the noetic of the whole physiology.

One of the basic determinants of the existence of organism is the time, particularly from the point of view of the development. In the comparatively definitive state of adulthood the time factor can be assumed as not significant. However, during the development when all processes are highly dynamic, time plays the primary role. We must not forget that the object can change directly under the hands of the experimentalist. Along with that, special significance can attain critical points of development when certain structure or function ripens to a qualitative change. It appears to be especially important for speculations on the role of neuroplasticity in the ontogenetic development of CNS.

All presentations were discussed with a great interest.