

Among helminths, there are some parasites which may dwell in the central nervous system of humans during their ontogenic development. Contrary to the former concept of so called immune privilege of this site, hosts develop the immune response against them. Both immune cells and resident immunocompetent cells (astrocytes, microglia) participate in these immune reactions. The host immune response consists of cellular as well as humoral immunity. This bachelor's thesis gives the general features of the immune response in the central nervous system and describes the immune response during particular helminthic neuroinfections: neuroschistosomiasis, neurocysticercosis and neurotoxocarosis.