The thesis presents the results obtained during the investigations on the effect of cyanocobalamin on the brain of Singi fish, Heteropneustes fossilis (Bloch). The thesis consists of two parts. The first part deals with the normal level of whole brain weight, craniosomatic index and weight of different parts of brain of male and female fish and also the effect of cyanocobalamin on total brain weight, CSI and weight of different parts of brain of male and female fish. The second part of the thesis deals with the effect of cyanocobalamin on protein, RNA and DNA contents of different parts of brain, and glycogen, cholesterol, water content of whole brain and also the effect of cyanocobalamin on some enzyme activities, viz., D-glycerophosphate dehydrogenase (D-GPD), malic enzyme (ME) and acetylcholinesterase (AChE) of brain of male and female Singi fish. Some parts of the works were presented at the 72nd session of the Indian Science Congress Association and National Symposium on 'Modern Trends in Environmental Biology' and Seminar on 'Environment and Animal life' arranged in Rahara, Calcutta, 1989.

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