

Thyroxine and Blood Chemistry of Carp, *Cyprinus carpio*

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(With 1 figure)

Summary

The role of intraperitoneal administration of thyroid hormones on blood metabolites was studied in carp, *Cyprinus carpio* and the effect was found to be bi-phasic. Single injection of thyroxine (1.0 JAg/g) resulted a significant increase in total proteins after 12 hours of the experiment but at higher dose (2.0 f.1g/g) its effect was found to be catabolic. Plasma glucose was significantly elevated after 6 hours of thyroxine administration and this effect was sustained in 1.0 JAg/g group until after 48 hours but in 2.0 JAg/g group it dropped and became hypoglycemic after 24 hours of the experiment. Thyroxine treatment resulted a significant increase in concentration of monovalent cations (Na⁺, K⁺) but divalent cations (Ca⁺⁺, Mg⁺⁺) were depleted. The results are discussed in the light of earlier relevant reports.