## عنوان مقاله:

(Effects of propofol anaesthesia on some biochemical parameters of common carp fish (Cyprinus carpio

## محل انتشار:

سومین کنفرانس بین المللی توسعه پایدار، راهکارها و چالش ها با محوریت کشاورزی ، منابع طبیعی ، محیط زیست و گردشگری (سال: 1395)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

The aim of the study was to assess the influence of different concentrations propofol on biochemical blood profile(glucose, total protein, triglyceride, cholesterol, aspartate aminotransferase, alanine aminotransferase and alkaline phosphatase) of the common carp (Cyprinus carpio). For assessment of the biochemical profiles of plasma, 60 Cyprinus carpio (50.25±8.41 g body weight and 15.78±0.85 cm total length) Carp fish were exposed to concentrations of 2, 4,6,8 and 10 mg/l of propofol. Biochemical indices were analyzed immediately after anaesthesia and 24h after exposure to the anaesthetic, and compared to respective control groups. The use of propofol induces a significant increase (P< 0.05) in the levels of glucose, triglyceride, cholesterol and Aspartate aminotransferase (AST) respectively at 2,4,10 ; 2,10 ; 2, 8 and 8 mg/l during anesthesia compared with the control group. But 24 h after, they were not significant. All concentrations of propofol caused a significant decrease (P< 0.05) in Alkaline phosphatase(ALP) during anesthesia. The results showed that exposure to different concentrations of propofol caused moderate stress and limit the negative effects of stress in common carp. However most of determined parameter was recovered after 24 h. However, further research on other serum biochemical parameters and also histological studies to reach the logical conclusion is suggested.

## کلمات کلیدی:

Anaesthesia, Blood chemistry, Cyprinus carpio, Propofol

## لینک ثابت مقاله در پایگاه سیویلیکا: