



## Application of Biofloc technology in *cyprinus carpio*

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### Abstract

Department of Clinical Sciences, Shahid Chamran University of Ahvaz, Ahvaz, Iran This experiment was conducted for 90 days. The fish were divided into four groups with a Biofloc system with 3 different carbon-to-N ratio (C: N). Water quality parameters, fish growth and immunological indices as well as fish health status were compared among the groups. The results showed that most of water quality parameters in biofloc treatments improved compared to control treatment. Most of the growth indices were significantly improved in biofloc groups compared to control. Therefore, it can be concluded that biofloc technology can be used in intensive culture of common carp and in addition to improving fish growth in the system, the immunity and welfare indexes of fish are also improved in comparison to intensive culture system without Biofloc technology.

