

## عنوان مقاله:

Comparative study on bacterial flora of the intestine in Persian sturgeon (*Acipenser persicus*) fingerlings reared in fiberglass tanks and earthen ponds

## محل انتشار:

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## خلاصه مقاله:

In this study, random sampling conducted and ۹۰ individuals of Persian sturgeon having ۳-۵g weight, collected by trawling in ۳ earthen ponds and ۱۵ individuals having ۱۰-۲۰g weight, collected by small net in ۳ fiberglass Vans. After recording of biometrical characteristics, the intestine and rearing water were cultured on TSA medium. Gram staining and complementary tests were conducted. In order to identify the bacterial species, various biochemical experiments and diagnosis kit of API ۲۰E (special for gram negative bacteria) applied. According to biometrical recording, in earthen ponds, the mean weight and length of juveniles were  $۵.۵۹ \pm ۳.۱۸$  and  $۱۱.۴ \pm ۲.۹$ , respectively. The results showed that the mean facultative aerobic and anaerobic bacterial counts in intestine were  $۵.۵۹ \pm ۰.۹۲$  (log CFU g<sup>-1</sup>) and  $۶.۶۷ \pm ۰.۳۴$  (log CFU ml<sup>-1</sup>) in *Acipenser persicus* juveniles and rearing water, respectively. Furthermore, the following bacteria determined in intestine of Persian sturgeon: *Aeromonas* sp., *A.sorbria*, *A.hydrophyla*, *Entrobacteriaceae* and *Corynebacterium*. The bacteria in the rearing water were *Aeromonas* sp. and *A.soberia*. According to biometrical recording, in fiberglass Vans, the mean weight and length of juveniles were  $۱۲.۱۳ \pm ۲.۵۱$ g and  $۱۵.۱۱ \pm ۱.۱۳$  cm, respectively. The results showed that the mean facultative aerobic and anaerobic bacterial counts in intestine were  $۴.۷۷ \pm ۰.۰۴$  (Log CFU g<sup>-1</sup>) and  $۴.۸۱ \pm ۱$  (Log CFU ml<sup>-1</sup>) in *A. persicus* juveniles and rearing water, respectively. Furthermore, the following bacteria determined in intestine of Persian sturgeon: *Aeromonas* sp., *Micrococcus*, *Staphylococcus*. The bacteria in the rearing water were *Aeromonas soberia*, *Acinetobacter*, *Moraxella*, *Micrococcus* and *Staphylococcus*

## کلمات کلیدی:

Earthen ponds, Intestine, Persian sturgeon, *Acipenser persicus*, Bacterial flora

## لینک ثابت مقاله در پایگاه سیویلیکا:

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