

## عنوان مقاله:

Effects of adaptation to salinity on body shape in zebrafish (*Aphanius sophiae*) using geometric morphometric method

## محل انتشار:

دومین کنفرانس ماهی شناسی ایران (سال: 1393)

تعداد صفحات اصل مقاله: 1

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## خلاصه مقاله:

In the present study, the effect of salinity on the body shape was studied in the zebrafish (*Aphanius sophiae*) using geometric morphometry method. 30 zebrafish at two salinity levels (0 and 14 ppt) were reared for a month. Then the left side of the specimens were photographed and landmarks put on two-dimensional images using tpsDig2. Landmark data after GPA (Generalized Procrustes Analysis) analyzed using DFA and MANOVA. Results showed significant differences between salinity treatments ( $P=0.0098$ ), so that at low salinity the upper edge of the gill cover, with upper mobility and increase the height of the opening the gill cover, as well as mouth showed lower mobility mode. Observed changes in high salinity was quite opposite. These results suggest a direct effect of salt on the zebrafish body shape.

## کلمات کلیدی:

Salinity, Body shape, Zebrafish, Geometric morphometrics

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1023972>

