



## Bacterial disease of goldfish in Guilan province

Faeed M.<sup>1\*</sup>; Ghasemi M.<sup>1</sup>; Mehrabi M.<sup>2</sup>; Daghigh roohi J.<sup>1</sup>; Mirhashemi Nasab F.<sup>1</sup>

1-Iranian Fisheries Science Research Institute (IFSRI), in land waters Aquaculture research center, Agriculture Research Education and Extension Organization (AREEO) Anzali, Iran.

2-Iranian Fisheries Science Research Institute (IFSRI) Agriculture Research Education and Extension Organization (AREEO), Tehran, Iran.

\*Corresponding author's email: m\_faeed@yahoo.com

### Abstract:

Gold fish farming is common in most countries of the world. The aim of this study was to identify common and transmissible bacteria between fish and humans in gold fish ponds in Guilan province. In this research, 150 samples of gold fish from 12 pools of Guilan province were caught seasonally and selectively and transferred live to the bacteriological laboratory of Anzali Aquaculture Research Institute. Then, different bacteria were isolated and identified by diagnostic and biochemical methods. Bacteria isolated from gold fish included *Pseudomonas sp*, *Aeromonas hydrophila*, *Streptococcus SP*, *Vibrio SP*, *Escherichia coli*, *Klebsiella sp*, *Mycobacterium SP*, *Salmonella SP*. Maintaining water quality and Observance of health standards and applying quarantine conditions at the appropriate level to control the disease can help prevent and control infections caused by bacterial diseases in fish and its non-transmission to humans.

**Keywords:** Gold fish, bacteria, Guilan province, water quality