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## Study of infestation with external and internal parasites in koi *Cyprinus carpio* L. in ornamental fish centers of Tehran

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Koi carp is a beautiful and popular aquarium fish that lives in freshwater. Koi is a color variety of common carp, *Cyprinus carpio* L. This ornamental fish, originating from Japan, has been bred in Iran since 2002. In addition to its beauty, this fish is one of the most resistant species of cyprinidae. However due to the poor management of propagation and culture centers throughout the country, this fish is subjected to various contaminations, especially parasites infestation. This study focuses on studying internal and external parasites of this fish in Iran. In 2016, 250 healthy-looking ornamental koi fish were collected from 10 ornamental fish centers of Tehran, Iran, randomly. Then, these fish were transferred to the ornamental fish clinic, veterinary faculty, University of Tehran, in order to detect the probable external parasites. At first the samples were investigated macroscopically. Macroscopic examination revealed presence of *Lernaea* (*Lernaea cyprinacea*) (3%) and *Argulus* sp. (2%) in some cases. Then, wet smear was prepared from the skin, fin of the above mentioned fish and they were studied microscopically. Microscopic investigations showed infestation with some external parasites including *Trichodina* spp. (14%), *Dactylogyrus* spp. (16%), *Gyrodactylus* spp. (10%) and *Epistylis* spp. (5%). For treatment of rest of infected fish in propagation centers, short-term salt bath (20 g/lit for 30 min) was used and because of the low number of *Argulus* spp. and *Lernaea* spp., they were removed by forceps. After one month, these fish were examined again and no sign of infection was observed.

### Biography

Melika Baes completed her Doctor of Veterinarian Medicine at Tehran University and now, pursuing PhD in Department of Aquatic Animal Health at Tehran University School of Medicine. She has experience in administration, personnel management, and project development on fishery farms in Mazandaran, Iran.

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