

## عنوان مقاله:

Survey on fungal, parasites and epibionts infestation on the *Astacus leptodactylus* (Eschscholtz, ۱۸۲۳), in Aras Reservoir West Azarbaijan, Iran

## محل انتشار:

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## خلاصه مقاله:

A total of ۳۹۴ (۲۵۵ males, ۱۳۹ females) live freshwater crayfish *Astacus leptodactylus* from four stations of Aras reservoir in West Azarbaijan Province (North-Western Iran) were studied during the winter until early autumn of ۲۰۰۹ for the presence of parasites, Epibionts and Fungal agents. Parasitological surveys were carried out on gills exoskeleton and internal organs, mycological examinations on the exoskeleton (the legs, abdominal cuticle and the eggs). ۹ epibionts and parasites peritrich protozoans including *Cothurnia sieboldii* (۶۸.۵%), *Zoothamnium* spp. (۵۶.۶%), *Vorticella similis* (۴۵.۶%), *Chilodonella* spp. (۰.۵%), *Podophrya fixa* (۷.۸%), *Epistylis chrysemidis* (۵۳.۲%), *Pyxicola annulata* (۶۶%), *Opercularia articulata* (۱۹.۸%), *Tetrahymena pyriformis* (۰.۵%) were recorded. From Metazoan parasites group, *Branchiobdella kozarovi* (۷۱%) as the first observation was the only parasite recorded from exoskeleton with prevalence (۱۰۰%) during spring and summer of the study year. Infected gills were heavily damaged with *Aeolosoma hemprichi* (Annelid) in winter with ۹۰% prevalence. Other Epibiont fouling organisms such as Rotatoria free living Nematods were observed in this survey. Furthermore, on the mycotic agents identified *Penicillium expansum* *Aspergillus flavus* *Alternaria* sp. *Fusarium* sp. and *Saprolegnia* sp. were isolated in IM media and identified with slides cultured from cuticular melanized lesions and eggs of infected specimens. This is the first investigation on epibionts, parasites and fungal organisms of the endemic crayfish in Aras reservoir, Iran.

## کلمات کلیدی:

*Astacus leptodactylus*, Fungi, Epibiont, Aras reservoir, Iran

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1402150>

