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ISOLATION AND IDENTIFICATION OF *MYCOBACTERIUM* FROM CAPTURED CATS BELONGING TO TUBERCULOSIS INFECTED FARMS

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Background & Aim: Bovine tuberculosis is one of the most important zoonotic diseases in Bovidae. Humans and animals that transit to the farm can transfer *Mycobacterium* to the cattle. Hence, the aim of this study is to evaluate the possible role of cats in transferring the *Mycobacterium* infection in dairy farms.

Methods: From a dairy cattle farm with more than 20% infection of *Mycobacterium*, seven cats were captured and their gastric juice cultured in the LJ and LG medium. The acid-fast staining of the isolates prepared to identify *Mycobacterium* and PCRs were carried out afterwards.

Results: Five out of seven cultures were positive in direct smear by acid fast staining and in PCR-16SrRNA, which indicates that the above-mentioned isolates belong to the *Mycobacterium* genus. Also, positive PCR-IS6110 confirmed that the isolate species are identified as *Mycobacterium* tuberculosis complex. Currently, we are conducting sequencing for the exact identification of these isolates.

Conclusion: Animals such as mice and cats that live in the farm can harbour *Mycobacterium*. In this study, it has been proven that cats certainly transfer *Mycobacterium* to the cattle farms.

Biography

Khashaiar Mansouri is currently studying Doctor of veterinary medicine at the Islamic azad university Garmsar branch. His Research focus is on zoonotic diseases particularly Mycobacterium in cat and mice, as well as Bukholderia mallei in Guinea pig. Recently, he has given poster presentation in the 19th international and Iranian congress of microbiology.

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