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MOLECULAR AND PHENOTYPIC CHARACTERIZATION OF *PHOTOBACTERIUM DAMSELAЕ* AMONG SOME MARINE FISHES IN LAKE TEMSAH

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Highlights

- *Photobacterium damselaе* species are one of the most devastating bacterial pathogens in mariculture worldwide. They are the causative agents of photobacteriosis, formerly known as pasteurellosis.
- The clinical picture and gross lesions of the diseased fishes were recorded.
- Isolation and identification of suspected bacteria using traditional and molecular methods.
- Molecular diagnosis with conventional PCR used to confirm the traditional isolation was applied by using specific primers of two genes (polycapsular saccharide gene and urease C gene).
- The histopathological studies of naturally infected marine fishes showed severe inflammatory reactions in different organs with accumulation of melanomacrophages and necrosis.
- The results confirm that *P.damselaе* subspecies *damsalea* is the most prevalent pathogen between marine fishes, in addition to seabass was the highly affected marine fishes in this study

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