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Donaxtrunculus(Bivalvia, Donacidae)InfestationwithBacciger bacciger(Trematoda, Donacidae)InfestationwithBacciger bacciger(Trematodae)InfestationwithBacciger bacciger(Trematodae)	Fellodistomidae)
at Port Said coastal zone (Mediterranean Sea)	

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Infection of Bacciger bacciger in the Donax trunculus was studied in samples collected from the Mediterranean coast at Port A Said coastal zone. Sporocysts of *Bacciger bacciger* were embedded in gonadal tissue of the bivalve *Donax trunculus*. Sporocysts of B. bacciger were demonstrated in 504 of 1200 clams examined with overall prevalence of infection reaching 73.69%. prevalence increased to 24% of D. trunculus with shell length 34 mm, while individuals less than 15 mm shell length were not infested with B. bacciger. Seasonality was recognized in prevalence of infection. e proportion of infected individuals of both e proportion of infected clams reduced to virtual castrates sexes was nearly similar (6.56% in males and 8.04 % in females). of unknown sex reached 28%. e tegument of the sporocyst and cercariae were studied by light microscopy. A birth pore on one side of the sporocyst, uniciliate sensory organs and cup-shaped sensory-like structures were present on the tegument. cercarial body had spines and uniciliate sensory organs. e ventral sucker of the cercariae had 2 rings of uniciliate sensory organs and supported with tegumental spines. Histopathological e ect of Bacciger bacciger on Donax trunculus was studied and discussed. Results revealed that the most common sites of the sporocyst occurrence were the interfollecular connective tissues in the gonads and muscle bers of the foot. Degenerative follicles hypertrophy and hyperplastic changes of the connective tissues, granular haemocytes and separation between germ cells and follicular epithelium were the main histological features of the infection in the male *D. trunculus* gonad. While, vacuolization, necrosis and derangement of muscle bers of foot were the most histological features observed in infected feet by sporocyst. e Siphonal tissue of infected *Donax* was free of sporocysts. e increase in goblet cells and movement of subepithellial mucous glands towards the outer surface were indications of defense against B. bacciger infection. e present results indicated that B. bacciger promotes a severe castration in the bivalve Donax trunculus.

Biography

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