



Prevalence of Monogenean Parasites in Some Freshwater Fishes of Jammu Region, India

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Abstract: The present study was conducted to investigate the occurrence and seasonal incidence of monogenean parasites in the freshwater fishes of Jammu region. A total of 654 fishes comprising *Labeo rohita*, *Puntius sophore*, *Tor sp.* and *Puntius ticto* were collected and examined for monogenean parasites from March 2018 to February 2019. Three monogenean ectoparasites belonging to group Platyhelminthes recovered from the gills of infected fishes. *Dactylogyrus bucinus* and *Diplozoon guptai* were identified to the species level while *Gyrodactylus* species identified to the generic level only. Among the monogenean parasites recovered *Dactylogyrus bucinus* showed highest rate of prevalence of 47.78% and 43.20% in *Puntius ticto* and *Tor sp.* respectively, whereas *Gyrodactylus sp.* showed lowest prevalence of 04.28% in *Puntius sophore*. The seasonal prevalence for monogenean infestation was the maximum in summer season, followed by spring, autumn and winter among infected host. Among, the fish hosts, Cyprinidae was found to be most suitable host for monogeneans and dactylogyridae was the most diverse family.

Keywords: Parasites, Platyhelminthes, *Dactylogyrus*, *Gyrodactylus*, *Diplozoon*, Prevalence
