



Article

A checklist of parasitic nematodes (Nematoda) from birds (Aves) in China

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Abstract

A checklist of parasitic nematodes of birds from China is presented. This fauna is comprised of 280 species, representing five orders, two subclasses, 27 families, and 70 genera. Information about their hosts, localities and lodgement of specimens is provided.

Key words: parasites, Aves, Nematoda, fauna, China

Introduction

China is the third-largest country in the world, and one of the most biodiverse. The fauna of China comes from both the Palearctic region and the Oriental region, with 1,331 bird species (Zheng, 2006). Despite increasing public concern about the need for study and protection of the birds, their populations and species have been decreasing. According to the statistics of the China Species Red List, 7.36% of birds in China are threatened with or near extinction (Wang *et al.*, 2004; Liu *et al.*, 2008).

Nematodes are an important group of parasites in birds, and their taxonomy, phylogeny, zoogeography, ecology, and so on requires study. The present work examines the status of study of the nematodes from birds in China. A total of 280 species of nematodes from birds in China is listed. Host names are mainly based on the manual “A checklist on the classification and distribution of the birds of China” by Zheng (2006).

Materials and methods

The following list was completed by using published information. Nematode names follow those provided in the most taxonomic literature. Nematodes are listed in alphabetical order starting from subclass, order, superfamily, family, genus (subgenus) and species. The list includes information on hosts (specific name, in alphabetical order), localities (in alphabetical order) and references (in chronological sequence). The list mainly follows nematode classification and systematic arrangement of Anderson, Chabaud & Willmot (1974–1983) and Gibbons (2010).

Abbreviations:

1. Provinces:

AH=Anhui; FJ=Fujian; GD=Guangdong; GS=Gansu; GZ=Guizhou; HB1=Hubei; HB2=Hebei; HLJ=Heilongjiang; HN1=Hainan; HN2=Hunan; HN3=Henan; JS=Jiangsu; LN=Liaoning; SC=Sichuan; SD=Shandong; SX1=Shānxī; SX2=Shānxī; TW=Taiwan; YN=Yunnan; ZJ=Zhejiang; QH=Qinghai; JX=Jiangxi.

2. Autonomous Regions:

XJ= Xinjiang Uyghur Autonomous Region; GX=Guangxi Zhuang Autonomous Region; NMG=NeiMonggol [Inner Mongolia] Autonomous Region; XZ=Tibet Autonomous Region; NX=Ningxia Hui Autonomous Region