

Rotifers in Turkish inland waters

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Abstract. From a survey of 36 freshwater sites in Turkey, 12 species of Rotifera were recorded as new to Turkey: *Aspelta labri*, *Dicranophorus robustus*, *Encentrum uncinatum*, *E. wiszniewskii*, *Eothinia lamellata*, *Itura aurita*, *Lecane arcula*, *L. hornemanni*, *L. inopitana*, *Lindia torulosa*, *Proales theodora*, and *Wulfertia kivuensis*. These include four genera found in Turkey for the first time (*Aspelta*, *Eothinia*, *Itura* and *Wulfertia*).

Kurzfassung. Im Zuge einer Felderhebung in 36 Süßgewässern der Türkei wurden 12 Rotifera-Arten als neu für die Türkei nachgewiesen: *Aspelta labri*, *Dicranophorus robustus*, *Encentrum uncinatum*, *E. wiszniewskii*, *Eothinia lamellata*, *Itura aurita*, *Lecane arcula*, *L. hornemanni*, *L. inopitana*, *Lindia torulosa*, *Proales theodora* und *Wulfertia kivuensis*. Darunter sind auch vier Gattungen (*Aspelta*, *Eothinia*, *Itura* und *Wulfertia*), die in der Türkei erstmals gefunden wurden.

Key words. Rotifera, taxonomy, Turkey, new records.

Introduction

Although the environmental conditions of Turkish lakes have been described by many authors, the zooplankton including the rotifer fauna has only received close attention during the last two decades, and significant progress has been made (e.g. DUMONT & DE RIDDER 1987, SEGERS et al. 1992, ALTINDAĞ & YİĞİT 1999, EMİR 2004). In this study, we record 12 species of Rotifera new to the Turkish fauna.

Material and methods

Rotifer samples were collected between 2003 and 2005 by using a standard plankton net (aperture 55 µm). The material was fixed with 4% formaldehyde, soon after collection. Trophi were isolated by dissolving the soft body parts in dilute NaOCl, and were prepared for scanning electron microscopy (SEM) following the procedure of DE SMET (1998). SEM study was performed using a JEOL JSM-60 60 LV and using a POLARON SC 502 SPUTTER COATER to gold cover. For identification we used EDMONDSON (1959), KOSTE (1978), DE SMET (1996), DE SMET & POURRIOT (1997), SEGERS (1995), and NOGRADY & POURRIOT (1995).

The material was collected at 36 freshwater sites in Central Anatolia, the Mediterranean Region, West Anatolia and Eastern Anatolia (Fig. 1). The localities are given below together with the provinces (in parentheses) and collecting dates.

1. Homurlu Stream (Develi-Kayseri): 3.vi.2005, 27.vii.2005, 6.viii.2005. - 2. Ekiz Stream (Develi-Kayseri): 2.vi.2005. - 3. Zamantı River (Develi-Kayseri): 3.iv.2005, 3.vi.2005, 9.viii.2005, 7.ix.2005. - 4. Tekir Pond (Erciyes Mountain-Kayseri): 10.viii.2005. - 5. Çayırözütü Pond (Develi-Kayseri): 3.iv.2005. - 6. Topçu Dam Lake (Sorgun-Yozgat): 18.ix.2004. - 7. Mogan