

HELMINTHOLOGICAL INVESTIGATIONS OF FISH IN LAKE BALATON II. (MONOGENOIDEA)

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The research work, aiming at obtaining a possibly complete picture of the rate of infection by helminths of the fish in lake Balaton by examining a great number of fish specimens, continued, one year after its conception, also in 1967. In this year, studies were extended to the monogenetic trematode species also. The present paper submits a short survey of the species belonging to the genera *Dactylogyrus*, *Gyrodactylus*, and *Tetraonchus*, collected in the year in question.

The following fish species have been examined: carp (*Cyprinus carpio*), bream (*Abramis brama*), white bream (*Blicca bjoerkna*), crucian carp (*Carassius carassius*), roach (*Rutilus rutilus*), red eye (*Scardinius erythrophthalmus*), qalin (*Aspius aspius*), ruffe (*Acerina cernua*), razor-fish (*Pelecus cultratus*), European wels (*Silurus glanis*), pike-perch (*Lucioperca lucioperca*), Volga dike-perch (*Lucioperca volgensis*), pike (*Esox lucius*), perch (*Perca fluviatilis*), European eel (*Anguilla anguilla*).

The specimens examined were adult fish, captured by sweepnet by the local fishermen.

Family: *Dactylogyridae*

All *Dactylogyrus* species have been collected from the gills

Dactylogyrus auriculatus (NORDMANN, 1832), NYBELIN, 1936, Fig. 2.

Host: *Abramis brama*

Date of collecting: 23 May, 1967

Dactylogyrus cornu LINSTOW, 1878, Fig. 4

Host: *Blicca bjoerkna*

Date of collecting: 23 May, 1967

Dactylogyrus crucifer WAGENER, 1857, Fig. 3

Host: *Rutilus rutilus*

Date of collecting: 23 May, 1967

Dactylogyrus difformis WAGENER, 1857, Fig. 1

Host: *Scardinius erythrophthalmus*

Date of collecting: 23 May, 1967

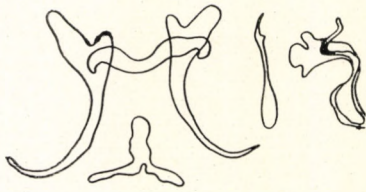


Fig. 1

1. ábra. *Dactylogyrus difformis*
WAGENER, 1857

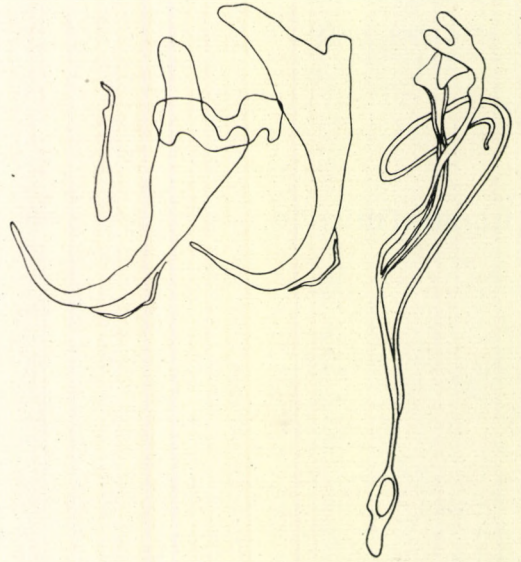


Fig. 2

2. ábra. *Dactylogyrus auriculatus*
(NORDMANN, 1832), NYBELIN, 1936

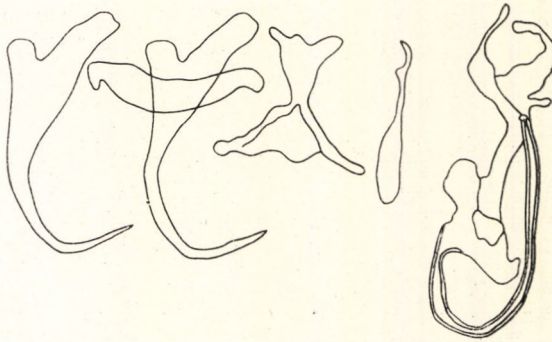


Fig. 3

3. ábra. *Dactylogyrus crucifer*
WAGENER, 1857

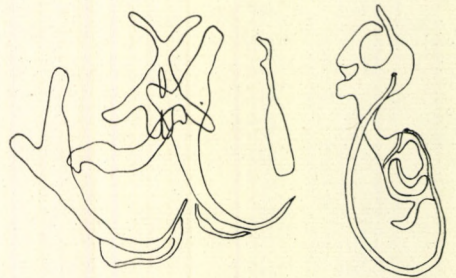


Fig. 4

4. ábra. *Dactylogyrus cornu* LINSTOW, 1878

Dactylogyrus distinguendus NYBELIN, 1937Host: *Blicca bjoerkna*

Date of collecting: 23 May, 1967

Dactylogyrus extensus MUELLER et VAN CLEAVE, 1932Host: *Cyprinus carpio*

Date of collecting: 23 May, 26 Sept., 1967

Dactylogyrus falcatus (WEDL, 1857)Host: *Abramis brama*

Date of collecting: 23 May, 1967

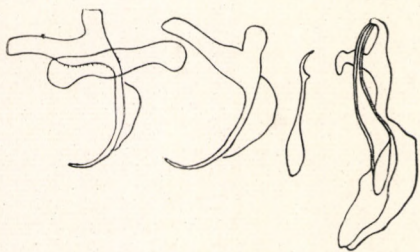


Fig. 5

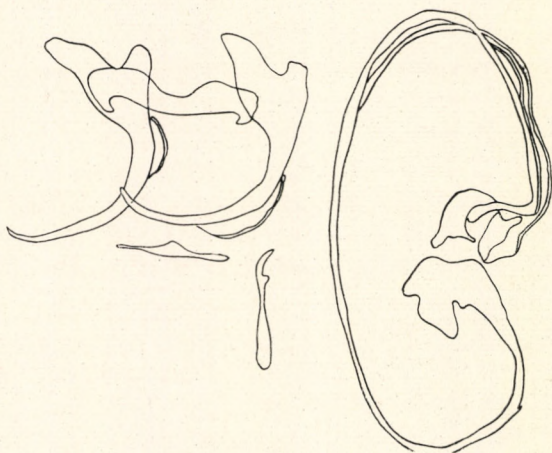
5. ábra. *Dactylogyrus intermedius* WAGENER, 1909

Fig. 6

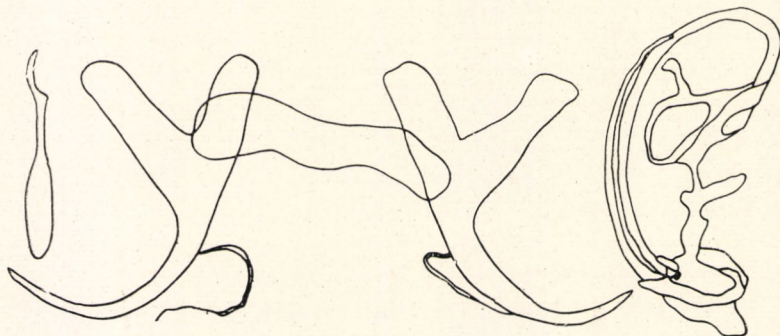
6. ábra. *Dactylogyrus tuba*
LINSTOW, 1878

Fig. 7

7. ábra. *Dactylogyrus fallax* WAGENER, 1857

Dactylogyrus fallax WAGENER, 1857, Fig. 7

Host: *Rutilus rutilus*

Date of collecting: 23 May, 1967

Dactylogyrus intermedius WAGENER, 1909, Fig. 5

Host: *Carassius carassius*

Date of collecting: 23 May, 26 Sept., 1967

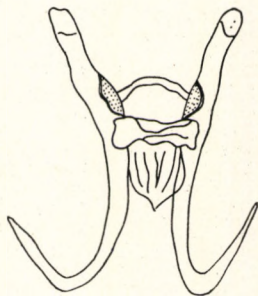


Fig. 8

8. ábra. *Gyrodactylus longiradix*
MALMBERG, 1956

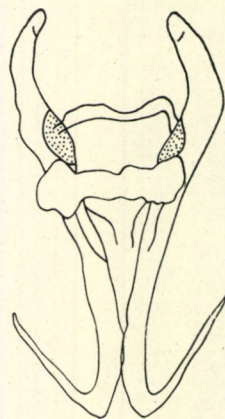


Fig. 9

9. ábra. *Gyrodactylus luciopercae*
GUSSEV, 1962

This gill-inhabiting parasite has been published from Hungary by MOLNÁR and NÉMETH. Their figure shows a specimen slightly differing from the nominate form. My own exemplars stand nearer to the typical form, insofar as their radical appendage is not tapering, its surface straight or slightly concave, the connecting dorsal plate finely arcuate, its margin not sinuous.

Dactylogyrus tuba LINSTOW, 1878, Fig. 6

Host: *Aspius aspius*

Date of collecting: 23 May, 26 Sept., 1967

Dactylogyrus wegneri KULWIEC, 1927

Host: *Carassius carassius*

Date of collecting: 23 May, 1967

Dactylogyrus wunderi BYCHOWSKY, 1931

Host: *Abramis brama*

Date of collecting: 23 May, 26 Sept., 1967

Dactylogyrus zandti BYCHOWSKY, 1931

Host: *Abramis brama*

Date of collecting: 23 May, 26 Sept., 1967

Family: ***Gyrodactylidae***

Gyrodactylus longiradix MALMBERG, 1956, Fig. 8

Host: *Carassius carassius* — fins

Date of collecting: 26 Sept., 1967

Gyrodactylus luciopercae GUSSEV, 1962, Fig. 9

Host: *Lucioperca lucioperca* — fins

Date of collecting: 26 Sept., 1967

These two species have not yet been recorded from Hungary.

Family: *Tetraonchidae*

Tetraonchus monenteron (WAGENER, 1857) DIESING, 1858

Host: *Esox lucius* — gills

Date of collecting: 23 May, 26 Sept., 1967

Summary

The paper submits a survey of monogenetic trematode species belonging to the genera *Dactylogyrus* (13 sp.), *Gyrodactylus* (2 sp.) and *Tetraonchus* (1 sp.), found in fish of the Lake Balaton. The species *Gyrodactylus longiradix* and *G. luciopercae* have not yet been published from Hungary.

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A BALATONI HALAK HELMINTHOFAUNÁJÁNAK VIZSGÁLATA II (MONOGENOIDEA)

Összefoglalás

Matskási István

A közlemény balatoni halakból gyűjtött 13 *Dactylogyrus*, 2 *Gyrodactylus* és 1 a *Tetraonchus* genusba tartozó monogenetikus trematoda faj áttekintését tartalmazza.

A *Gyrodactylus longiradix* és *Gyrodactylus luciopercae* hazánk faunájából eddig még nem közölt faj.

ИЗУЧЕНИЕ ГЕЛЬМИНТОФАУНЫ РЫБ ОЗЕРА БАЛАТОН

И. Мачкаши

Автором описаны трематоды балатонских рыб, относящиеся к следующим группам: *Dactylogyrus* (13 видов), *Gyrodactylus* (2), *Tetraonchus* (1). Два из обнаруженных видов являются новыми для фауны Венгрии: *Gyrodactylus longiradix* и *Gyrodactylus luciopercae*.