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THORAKOMONAS KORSCHIKOV
(PHACOTACEAE, CHLOROPHYTA)

()

Thorakomonas Korschikov – *Th. cruciformis* Demchenko sp. nov.,

Thorakomonas, *Pteromonas* Seligo, *Dysmorphococcus* Takeda.

Pteromonas robusta Korschikov

Dysmorphococcus feldmanii (Bourr.) H. Ettl *Thorakomonas Th. robusta* (Korschikov)

Demchenko comb. nov. *Th. feldmanii* Bourr.

: Volvocales, Phacotaceae, Thorakomonas, Th. cruciformis,

Th. robusta, *Th. feldmanii*,

Thorakomonas

11

(Pascher, 1927; , 1938; - , 1959; Ettl, 1983). 5

, *Th. feldmanii*

Dysmorphococcus

(Ettl, 1983). o

(2010),

(Ettl, 1983).

2

Thorakomonas

(, 2000),

© . . , 2010

Thorakomonas,

(- 10×10 , 5) . (- ,
, 11.06.2002 . « »

, *Chlamydomonas noctigama* Korschikov,
, *Hafniomonas reticulata* (Korschikov) . Ettl et Moestrup, *Pedinomonas minor* Korschikov;
Pseudocarteria stellata (Korschikov) . Ettl; *Lobomonas rostrata* Hazen;
Diplostauron angulosum Korschikov; *Vitreochlamys aulata* (Pascher) Batko;
Chlamydomonas pertusa F. Chodat; *Ch. neglecta* Korschikov; *Carteria dissecta*
Korschikov; *Gonium pectorale* O.F. Müll.; *Pandorina morum* (O.F. Müll.) Bory,
Euglena viridis Ehrenb.

-14 -3 (20^x, 40^x, 90^x). -
-6

XSP-XY.

10 .
1N BBM (Bischoff, Bold, 1963)

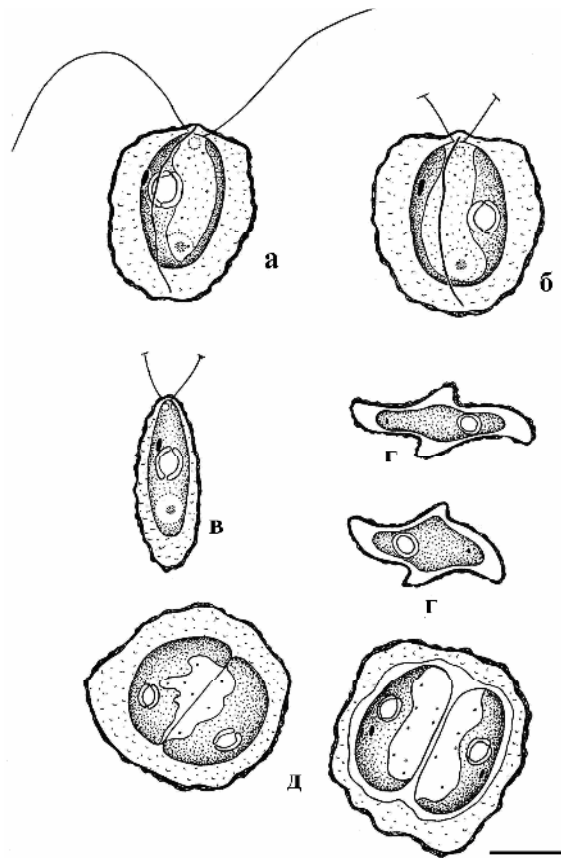
***Thorakomonas cruciformis* Demchenko sp. nov.**

ellulae vegetativae applanatae sunt, a latere lato ellipsoideae, in parte anteriore obtusatae, cum papillam convexiusculam, de parte posteriore angustata et arotundatae (longitudo: (10.8)12.0-13.2(14.4) µm, latitudo: (9.6)10.8-12.0(13.2) µm). A latere lato plica carinaformis in longitudine cellula extenditur.

A latere angusto cellulae lineari-lanceolatae (latitudo: 4.8-7.2 µm), in sectione optica transversa cruciformae, cum radiis «crucis» inaequilongis, gradatim flexis secundum motum horologii. Lorica integra, hyalinosis, irregulariter aspera, subtuberculata, cum granula pauca aquila incrustata est.

(. 1, ,).

1,5

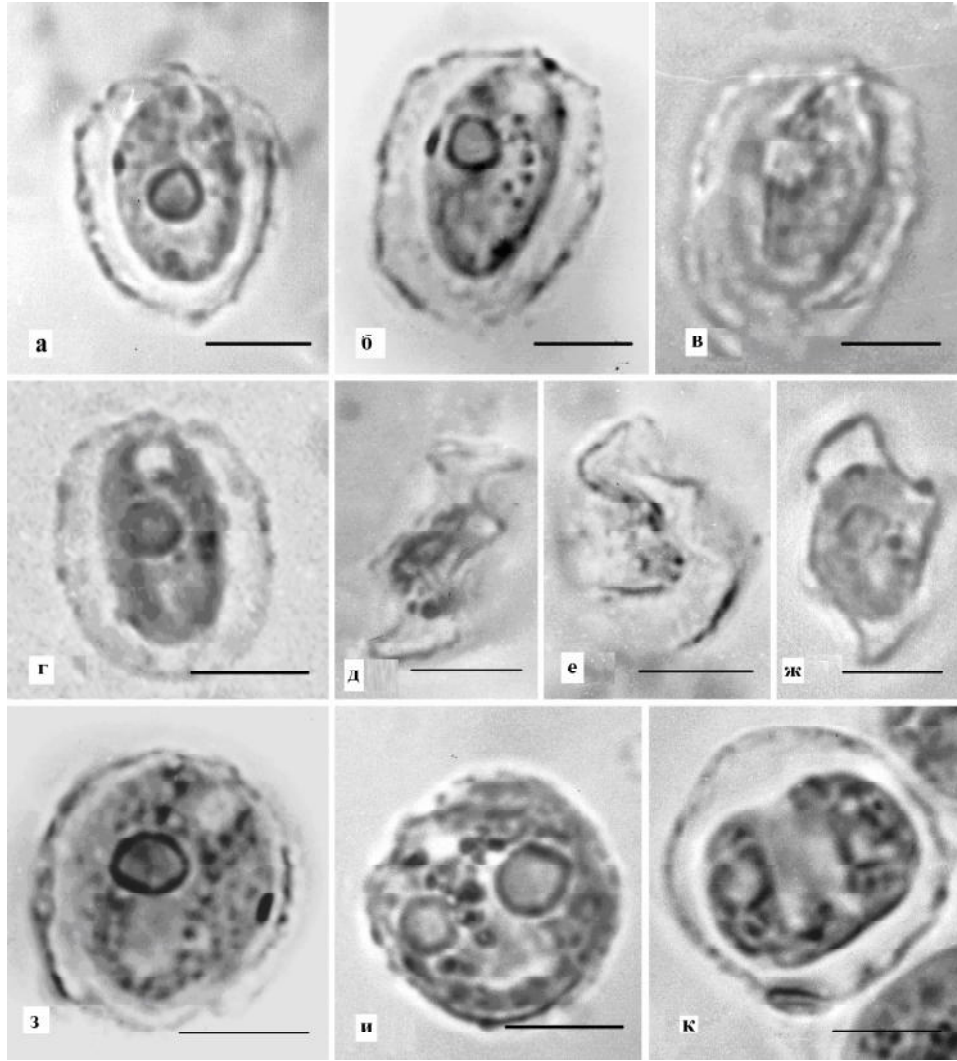


1. *Thorakomonas cruciformis* sp. nov.: , - ; -
; - . 5 .

(. 1, ; 2, -).

(. 2,),

(. 1, ; 2, ,),



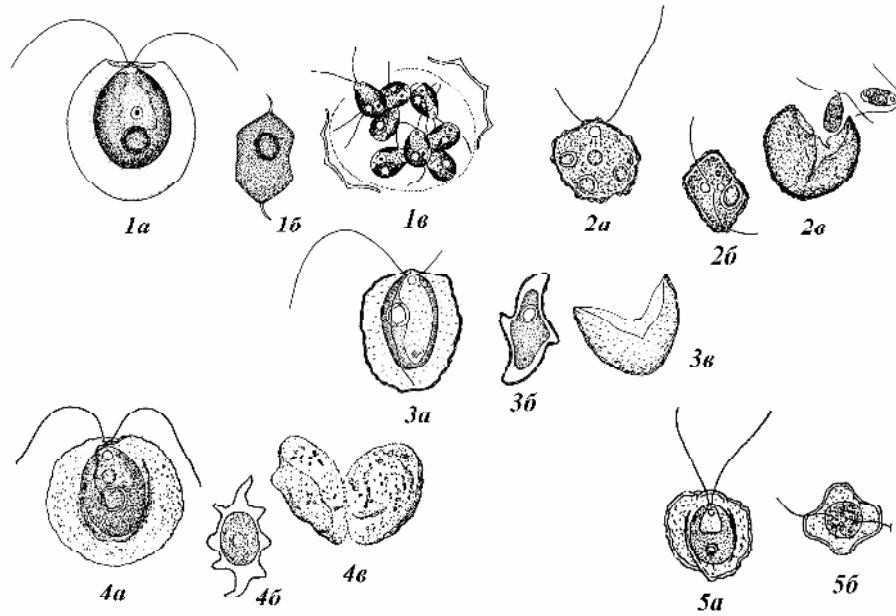
2. *Thorakomonas cruciformis* sp. nov.: а, б – дорсальный вид; в – латеральный вид; г – латеральный вид; д, е, ж – латеральный вид; з – латеральный вид; и – латеральный вид; к – латеральный вид; л – латеральный вид; м – латеральный вид; н – латеральный вид; о – латеральный вид; п – латеральный вид; р – латеральный вид; с – латеральный вид; т – латеральный вид; у – латеральный вид; ф – латеральный вид; х – латеральный вид; ц – латеральный вид; ч – латеральный вид; ш – латеральный вид; щ – латеральный вид; ы – латеральный вид; ь – латеральный вид; э – латеральный вид; ю – латеральный вид; я – латеральный вид; 1 – латеральный вид; 2 – латеральный вид; 3 – латеральный вид; 4 – латеральный вид; 5 – латеральный вид.

Pteromonas – *P. robusta* Korschikov (Korschikov, 1939).

Pteromonas-
(. 3, 4),
(. 3, 4).

(. 3, 3, 4). : *P. robusta* 3 (1 2

) 1
 , , 8
 , 1 (. 3, 4).
 1 , 4 ,
 , - (. 3, 3). -
 ,



. 3. Pteromonas Thorakomonas

Thorakomonas: 1 – *Pteromonas angulosa* (Carter) Lemmerm. (a,) *P. elegans* Demchenko (); 2 – *Thorakomonas irregularis* Korshikov (,) *T. sabulosa* Korshikov (); 3 – *Th. cruciformis* Demchenko sp. nov.; 4 – *Th. robusta* (Korshikov) Demchenko comb. nov.; 5 – *Th. feldmanii* Bour.; – ; – ; – (1 , – ; 1 – ; 2, 4 – ; 5 –).

... (, 1939) –
P. robusta. ,
Pteromonas,
Thorakomonas. ,
 (, ,

),
Pteromonas
 (. . 3, 1),
Pteromonas Thorakomonas.
Pteromonas.
Pteromonas
 (. 3, 4)
Pteromonas (. 3, 1) *Phacotus* Perty.
P. robusta,
Thorakomonas – *Th. robusta*
 (Korschikov) Demchenko comb. nov. *Th. cruciformis* Demchenko sp. nov.
Thorakomonas,
Pteromonas,
Pteromonas
 (Ettl, 1983)
 (*P. limnetica* Hortob., *P. sinuosa* Chodat, *P. cruciata*
 Playfair .),
Thorakomonas.
Dysmorphococcus feldmanii (Bourr.) H. Ettl,
Thorakomonas (Bourrelly, 1951).
 (. 3, 5), *Dysmorphococcus,*

(Porcella, Walne, 1980; Walne, Dunlap, 1993),
 (Demchenko et al., 2005).
 – *Thorakomonas feldmanii* Bourr.
Thorakomonas.
 (
Phacotaceae,
 (Hepperle et al., 1998; Pröschold et al., 2001).
Dysmorphococcus, *Pteromonas*, *Phacotus*, *Wislouchiella* Skvortzow.
<http://www.ncbi.nlm.nih.gov>).

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NEW SPECIES OF GENUS *THORACOMONAS* KORSCHIKOV (*PHACOTACEAE*,
CHLOROPHYTA) FROM TEMPORARY WATER BODY OF KIEV (UKRAINE)

Latin diagnosis, description, drawings and micrographs of new for science species from genus *Thorakomonas* Korschikov – *Th. cruciformis* Demchenko sp. nov. which was found from several ephemeral water bodies on the territory of the city Kiev are presented. The variability of morphological characters of new species and difference it from known species of this genus and related genera as well as significance of some characters in ranges of genera *Thorakomonas*, *Pteromonas* Seligo, *Dysmorphococcus* Takeda are discussed. Several nomenclatural combinations relating to transference of *Pteromonas robusta* Korschikov and *Dysmorphococcus feldmanii* (Bourr.) H. Ettl to the genus *Thorakomonas* as *Th. robusta* (Korschikov) Demchenko comb. nov. and *Th. feldmanii* Bourr. are proposed.

Key words: *Volvocales*, *Phacotaceae*, *Thorakomonas*, *Th. cruciformis*, *Th. robusta*, *Th. feldmanii*, new species, nomenclatural combinations Ukraine.

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