

Trachelomonas amphoriskos, nom. nov., a replacement name for *Trachelomonas incerta* var. *cordata* Drežepolski, 1925 (*Euglenaceae*, *Euglenophyceae*) and its infraspecific taxa

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In 1925, Roman Marian Dreżepolski (1885–1962) described a new variety of *Trachelomonas incerta* Lemmermann (1910: 528), *nom. illeg.* [unwarranted change of epithet for *Trachelomonas acuminata* A.Schulz (1856: 10, 12, pl. I [1]: fig. 5, reproduced here as Fig. 9)], – *T. incerta* var. *cordata* Dreżepolski (1925: 217, fig. 83), characterized by a distinct lorica shape. *T. incerta* var. *cordata* Dreżepolski is, however, legitimate even if it was placed under an illegitimate species name (ICN Art. 55.2, Turland & al. 2025).

Later that year Skvortsov (1925) proposed a new name for this taxon, *Trachelomonas drezepolskii* Skvortsov (1925: 59, as ‘*Drezeplski*’), which is also illegitimate (ICN Art.52.1) as it included a legitimate species name – *Trachelomonas nova* Dreżepolski (1925: 219) – in the synonymy of *Trachelomonas drezepolskii* var. *hispida* Skvortsov (1925: 59). Deflandre (1926: 703) elevated Dreżepolski’s variety to the species rank and retained the original epithet: *Trachelomonas cordata* (Dreżepolski) Deflandre. However, this name is a later homonym of *Trachelomonas cordata* Y.V.Roll (1925: 138, pl. 5: fig. 2), published late in the second half of 1925 and probably, as it was common at that time, released to the public at the beginning of the next year, but not later than 30 April (see reference to the paired issues 3-4 of vol. 4 of *Archives Russes de Protisiologie* in a footnote in Aptekarj 1926: 54). Deflandre’s combination was published in December, 1926 (see detailed information on publication dates of this volume in [Gallica bibliothèque numérique](#)), rendering this name a later homonym; however, it is not illegitimate as it has a basionym, but is superfluous and therefore incorrect (ICN Art 52.4). Here we propose a replacement name for Dreżepolski’s variety as well as the transfer of three infraspecific taxa which were legitimately described (ICN Art. 55.2) within *Trachelomonas cordata* (Dreżepolski) Deflandre, *nom. illeg.*

Trachelomonas amphoriskos Levanets & Guiry, *nom. nov.*

Replaced synonym: *Trachelomonas incerta* var. *cordata* Dżepolski *Kosmos* 50(1): 217, fig. 83, 1925.

Synonyms: *Trachelomonas cordata* (Dreżepolski) Deflandre *Revue Générale de Botanique* 38: 703, 1926, *superfluous*, priority for *Trachelomonas cordata* Y.V.Roll 1925: 138, pl. 5: fig. 2 (reproduced here as Fig. 8).

Description: Cell obovate, broad, 17.5–21.0 μm long, 14.0–17.5 μm wide, with a smooth surface; collar high, straight, tapering slightly towards the apex, with an even margin, 2.5 μm long. Flagellum twice the body length (from Dreżepolski 1925: 217, translated from Polish).

Holotype: [icon!] Dreżepolski (1925: fig. 83, line drawing of a single cell from a single gathering, ICN Art. 40.6, reproduced here as Fig. 1).

Type locality: Ukraine, no exact location. Written notes on the collection locality went missing during 1918 [in Lwów?] (Dreżepolski (1925: 173); the sample may have been collected in environs of Lwów, then in eastern Poland [now Львів/Lviv, Ukraine].

Etymology: The epithet describing a shape of lorica is a noun in apposition and derived from ancient Greek *amphoriskos* (ἀμφορίσκος) meaning a small amphora. It is a combination of the word *amphoreus* (a two-handled jar) and the Greek diminutive suffix *-iskos* (meaning “little”).

Such small amphorae were used for storing scented oils, perfumes and cosmetics in ancient Greece.

Registration (of name): <http://phycobank.org/107765>.

Note: *Trachelomonas drezepolskii* Skvortsov is a superfluous name for *Trachelomonas nova* Drezepolski, and recognised taxonomically by Da & al. (2009: 68, figs 121, 122).

Trachelomonas amphoriskos* f. *minor (Deflandre) Levanets & Guiry, *comb. nov.*

Basionym: *Trachelomonas cordata* f. *minor* Deflandre, *Revue Générale de Botanique* 38: 704, figs 490, 491, 1926.

Description: Lorica of the same shape as nominate form, but smaller. Cylindrical collar.

Dimensions: total length 13–14 µm, width 11 µm (from Deflandre 1926: 704, translated from French).

Lectotype (**here designated**): [icon!] Deflandre (1926: fig. 490, line drawing of a single cell from a single gathering, ICN Art. 40.6, reproduced here as Fig. 6).

Type locality: “Venezuela, Mare Mangas Coberas” [Mangas Coveras, Los Llanos, Guárico, Venezuela].

Registration (of name): <http://phycobank.org/107766>.

Registration (of lectotype): <http://phycobank.org/107776>.

Trachelomonas amphoriskos* var. *appendiculata (Frenguelli) Levanets & Guiry, *comb. nov.*

Basionym: *Trachelomonas cordata* var. *appendiculata* Frenguelli *Memorie della Società geologica italiana* 1: 26, pl. II [2]: fig. 1, 1932.

Description: Differing from nominate variety and also from the f. *minor*, by having two rod-like appendages that are equal in height to the collar and attached laterally to it. Lorica dimensions: length 12 µm, width 10 µm; collar: height 0.8 µm, diameter 2.5 µm (from Frenguelli 1932: 26, translated from the Italian).

Holotype: [icon!] Frenguelli (1932: pl. II [2]: fig. 1, line drawing of a single cell from a single gathering, ICN Art. 40.6, reproduced here as Fig. 5).

Type locality: Argentina: prov. Mendoza, Pliocene.

Registration (of name): <http://phycobank.org/107767>.

Trachelomonas amphoriskos* var. *punctata (Conforti & G.-J. Joo) Levanets & Guiry, *comb. nov.*

Basionym: *Trachelomonas cordata* var. *punctata* Conforti & G.-J. Joo *Cryptogamie: Algologie* 15: 269, 272, fig. 31, 1994.

Description: This variety differs from the nominal in the membrane being provided with small dense punctae. Lorica 16.5–18.0 µm long, 13–15 µm broad (from Conforti & Joo 1994).

Iconotype: Fig. 31 (Conforti & Joo 1994), reproduced here as Fig. 4.

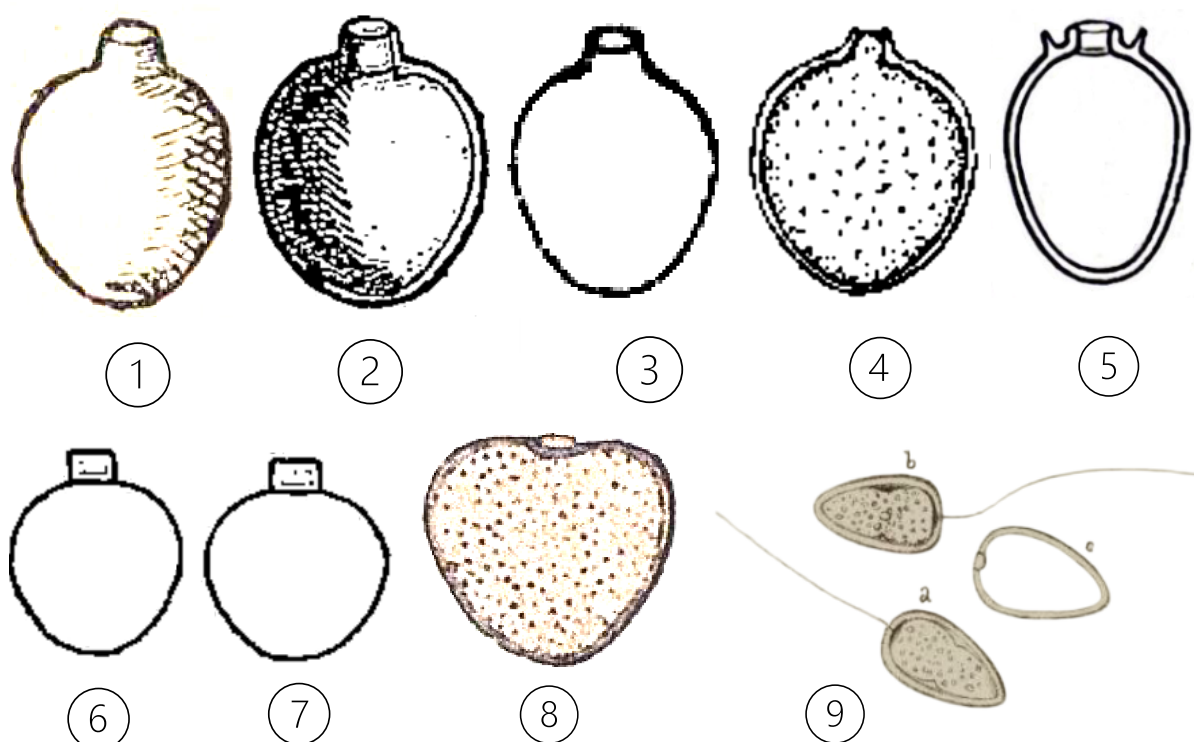
Type locality: USA: Indiana: Tristate Oxbow Lake, 14 May 1991.

Registration (of name): <http://phycobank.org/107768>.

Aptekarj, E.M. (1926). De nova Cyanophycearum specie: *Anabaenopsis Arnoldii* mihi. *Botanical Materials of the Institute of Spore Plants of the Principal Botanical Garden of the USSR* 4(4): 41–55 [in Russian: Аптекарь, Э.М. К морфологии и систематике новой сине-зеленой водоросли. *Ботанические материалы Института споровых растений Главного ботанического сада СССР* 4(4): 41–45].

Da, K.P., Mascarell, G. & Couté, A. (2009). Étude au microscope électronique à balayage du genre *Trachelomonas* (Euglenophyta) dans le Sud-Est de la Côte d'Ivoire (Afrique de l'Ouest). *Cryptogamie Algologie* 30(1): 31–90.

- Conforti, V. & Joo, G.-J. (1994). Taxonomic and ultrastructural study of *Trachelomonas* Ehr. and *Strombomonas* Defl. (Euglenophyta) from oxbow lakes in Alabama and Indiana (U.S.A.). *Cryptogamie, Algologie* 15(4): 267–286, 95 figs., 1 table.
- Deflandre, G. (1926). Monographie du genre *Trachelomonas* Ehr. *Revue Générale de Botanique* 38: 358–380, 449–469, 518–528, 580–592, 646–658, 687–706, 8 figures, 7 graphics, plates 15–29.
- Dreżepolski, R. (1925). Przyczynek do znajomości polskich Euglenin (Supplement a la connaissance des Eugleniens de la Pologne). *Kosmos* 50(1): 173–270, 190 figures [in Polish].
- Frenguelli, J. (1932). Trachelomonadi del pliocene Argentino. *Memorie della Società geologica italiana* 1: 1–44 [in Italian].
- Lemmermann, E. (1910). Algen I (Schizophyceen, Flagellaten, Peridineen). *Kryptogamenflora der Mark Brandenburg und angrenzender Gebiete* 3(4): 497–712, 10 plates.
- Roll, Y.V. (1925). New species of algae found in the vicinity of the North-Donetsk Biological Station. *Archives Russes de Protisiologie* 4(3-4): 137–152, plates 5–6 [in Russian: Ролл, Я.В. 1925. Новые виды водорослей найденные в окрестностях Сев.-Донецкой биологической станции. *Русский архив протистологии* 4(3–4): 137–152, with French abstract].
- Schulz, A. (1856). Beiträge zur Kenntniss der Infusorien des Herzogthums Nassau. *Jahrbücher des Nassauischen Vereins für Naturkunde* 11: 1–12, 1 plate.
- Skvortsov, B.V. (1925). Die Euglenaceengattung *Trachelomonas* Ehrenberg. Eine systematische Übersicht. *Transactions of the Sungari River Biological Station [Труды Сунгарийской речной биологической станции]* 1(2): 1–101, 8 plates.
- Turland, N.J., Wiersema, J.H., Barrie, F.R., Gandhi, K.N., Gravendyck, J., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Klopfer, R.R., Knapp, S., Kusber, W.-H., Li, D.-Z., May, T.W., Monro, A.M., Prado, J., Price, M.J., Smith, G.F. & Zamora Señoret, J.C. editors (2025). International code of nomenclature for algae, fungi, and plants (2025 Edition Madrid Code) *Regnum Vegetabile*, Volume 162. pp. [i]–xlvi, 1–303. Chicago & London: The University of Chicago Press.



Figs 1-3. *Trachelomonas amphoriskos* Levanets & Guiry, *nom. nov.*: **Fig. 1** - after Dreżepolski 1925, as *Trachelomonas incerta* var. *cordata* Dreżepolski; **Fig. 2** - after Deflandre 1926, as *Trachelomonas cordata* (Dreżepolski) Deflandre, *nom. illeg.*; **Fig. 3** - after Skvortsov 1925, as *Trachelomonas Dreżepolski* Skvortsov, *nom. illeg.*

Fig. 4. *Trachelomonas amphoriskos* var. *punctata* (Conforti & G.-J.Joo) Levanets & Guiry, *comb. nov.* (after Conforti & Joo 1994, as *Trachelomonas cordata* var. *punctata* Conforti & G.-J.Joo).

Fig. 5. *Trachelomonas amphoriskos* var. *appendiculata* (Frenguelli) Levanets & Guiry, *comb. nov.* (after Frenguelli 1932, as *Trachelomonas cordata* var. *appendiculata* Frenguelli).

Figs 6-7. *Trachelomonas amphoriskos* f. *minor* (Deflandre) Levanets & Guiry, *comb. nov.* (after Deflandre 1926, as *Trachelomonas cordata* f. *minor* Deflandre).

Fig. 8. *Trachelomonas cordata* Y.V.Roll (after Roll 1925).

Fig. 9. *Trachelomonas acuminata* A.Schultz (after Schultz 1856).