

***Strombomonas ovata* Z.X.Shi & Q.X.Wang (*Euglenaceae, Euglenophyceae*): a replacement name for *Trachelomonas ovata* Chia C.Wang & D.S.Nie, *nom. illeg.***

Anatoliy Levanets

*Unit for Environmental Sciences and Management, North-West University, Potchefstroom, South Africa* (correspondence: [Anatoliy.Levanets@nwu.ac.za](mailto:Anatoliy.Levanets@nwu.ac.za), [20868421@nwu.ac.za](mailto:20868421@nwu.ac.za))

In 1934, Chia Chi Wang (1898–1976), an eminent protozoologist, the founder of protozoology and a pioneer of rotiferology in China (see Shi & Fu 2020) and Da Shu [Dashu] Nie (1907–1992), described several new taxa of *Trachelomonas* from Nanking in China (Wang & Nie 1934). One of these, *Trachelomonas ovata* Chia C.Wang & D.S.Nie, was a later homonym of *Trachelomonas ovata* Y.V.Roll (1925: 138, pl. V [5]: fig. 7). Later Shi & al. (1999: 163) referred *T. ovata* Chia C.Wang & D.S.Nie to the genus *Strombomonas*, giving a description of this species, but without indication of type (Turland & al. 2025, Art. 40.4). *Strombomonas ovata* Z.X.Shi & Q.X.Wang is treated here as a replacement name (Turland & al. 2025, Art. 7.4; see also Art. 7.5 and Art. 41 Note 4).

I have not been able to locate original Wang and Nie's material, which may have been destroyed during the Nanjing [Nanking] Massacre during the Second Sino-Japanese War in 1937–1938. Accordingly, I here designate a type for *Trachelomonas ovata* Chia C.Wang & D.S.Nie in accordance with ICN Arts. 7.4 and 41.4 (Turland & al. 2025).

*Strombomonas ovata* Z.X.Shi & Q.X.Wang (in Shi & al. 1999: 163, pl. XLVI [46]: 8) [Fig. 4].  
≡ *Trachelomonas ovata* Chia C.Wang & D.S.Nie *Sinensis* 5(1&2): 141 [error in Shi & al. (1991: 142)], fig. 23, 1934, *nom. illeg.* (reproduced here as Fig. 3), *non Trachelomonas ovata* Y.V.Roll 1925: 138, pl. V [5]: fig. 7 (reproduced here as Fig. 1).

**Lectotype (here designated):** [icon!] Wang & Nie (1934: fig. 23, line drawing of a single cell from a single gathering, ICN Arts. 40.3 and 58.1, reproduced here as Fig. 3).

Type locality: China: Nanking [now Nanjing, Jiangsu Province], "... only several individuals were found from a pond located near by the campus of the Biological Laboratory, the Science Society of China."

Registration (of lectotype): <http://phycobank.org/106767>

Description: Lorica oval in shape, brownish yellow, wider posteriorly than anteriorly, attenuated at the anterior extremity to form a slightly oblique neck or collar which is very minutely crenulated or notched. Posterior end provided with a pointed straight or sometimes slightly curved tail-like prolongation. Lorica wall usually covered with scattered granulations of various shape and size. Chloroplasts spherical or ellipsoidal in shape, small and numerous. Flagellum about twice as long as the lorica. Length of the lorica: 30–35 µm; width of the lorica: 15–18 µm.

Note: *Strombomonas ovata* may be closely related to *Trachelomonas zmiewika* Svirenko (1914: 645, pl. XX [20]: figs 5, 6, see Fig. 5, currently referred to *Strombomonas acuminata* (Schmarda) Deflandre; Fells & al. 2023). Lorica of *Strombomonas ovata* is, however, definitely oval in shape, while that of the latter is always trapezoidal. The collar is shorter at one side than the other and as a consequence, the mouth is obliquely truncate. The crenulations along the border of the mouth are so minute that they could only be observed under very high magnification. The granulations attached to the surface of the lorica are of different size and those larger ones are seen to be elevated from the surface for a considerable distance. As the lorica is rather clear and semi-transparent, the protoplasmic body may be observed with great ease. In addition to the numerous chromatophores, an ovoid stigma and a large contractile vacuole are present at the anterior end, one close to another (Wang & Nie 1934). *Strombomonas*

*ovata* is also completely different morphologically to *Trachelomonas ovata* Y.V.Roll (see Fig. 1) as well as from the later described *Trachelomonas ovata* f. *minor* Tell & Zalocar de Domitrovic 1985: 367, pl. IX [9]: fig. 6 (see Fig. 2).

I am grateful to the Heng Zou (Wuhan, Institute of Hydrobiology, Chinese Academy of Sciences, P. R. China) for the help with old Chinese literature, and to the reviewers for their helpful comments leading to improvement of the manuscript.

Fells, A., Jiang, X., Jankowska, K., Łukomska-Kowalczyk, M., Milanowski, R., Wang, Q. & Zakryś, B. (2023). Molecular and morphological delimitation of species in *Strombomonas* (Euglenaceae) including a protocol for DNA isolation utilising a chelating resin. *Taxon* 72(4): 733–750, 2 figures, 2 tables.

Roll, Y.V. (1925). New species of algae found in the vicinity of the North-Donetsk Biological Station. *Archives Russes de Protistologie* 4(3–4): 137–152, plates 5, 6, with French abstract [in Russian: Ролл, Я.В. (1925). Новые виды водорослей найденные в окрестностях Сев.-Донецкой биологической станции. *Русский Архив Протистологии* 4(3–4): 137–152].

Shi, T. & Fu, L. (2022). Chia Chi Wang and his research on Protozoology. *Protein & Cell* 13(7): 473–475.

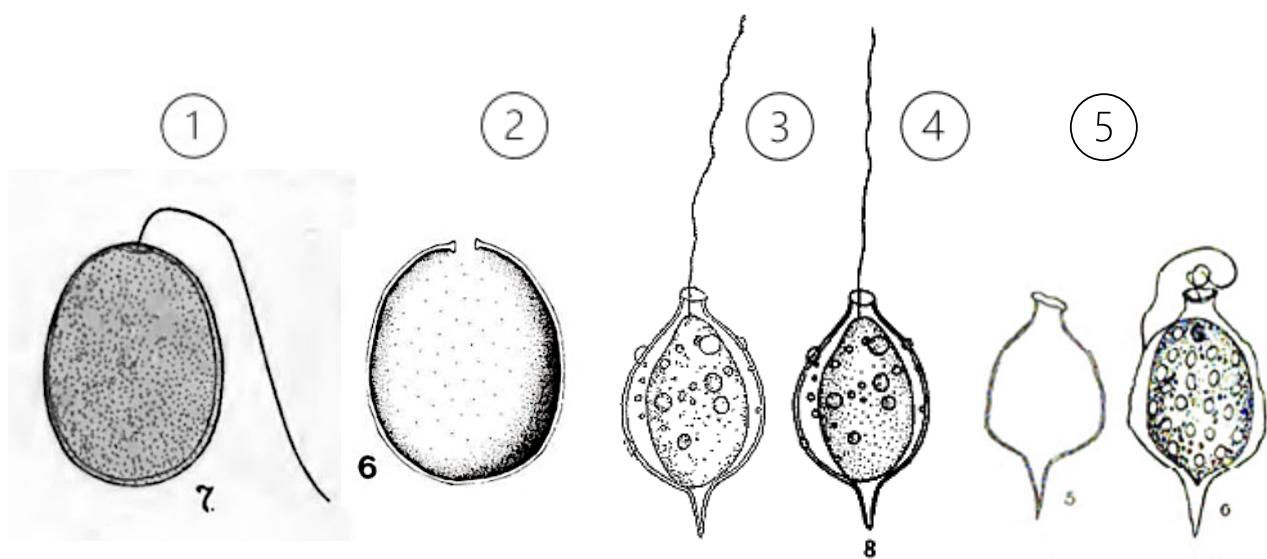
Shi Zhixin [Shi, Z.X.] & al. (1999). *Flora algarum sinicarum aquae dulcis. Tomus VI. Euglenophyta*. Science Press, Beijing: 1–414, LXXXVI [86] plates [in Chinese].

Svirenko, D.O. (1914). Zur Kenntnis der russischen Algenflora, I. Die Euglenaceen Gattung *Trachelomonas*. *Archiv für Hydrobiologie und Planktonkunde* 9: 630–647, Plates XIX and XX. [in German].

Tell, G. & Zalocar de Domitrovic, Y. (1985). Euglenophyta pigmentadas de la Provincia del Chaco (Argentina). *Nova Hedwigia* 41: 353–393, 17 plates [in Spanish with English and French summaries].

Turland, N.J., Wiersema, J.H., Barrie, F.R., Gandhi, K.N., Gravendyck, J., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Klopper, 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]–xlvii, 1–303. Chicago & London: The University of Chicago Press.

Wang, C.C. & Nie, D.S. (1934). Notes on *Trachelomonas* of Nanking. *Sinensis* 5(1&2): 122–146.



**Fig. 1.** *Trachelomonas ovata* Y.V.Roll (after Roll 1925). **Fig. 2.** *Trachelomonas ovata* f. *minor* Tell & Y.Zalocar de Domitrovic (after Tell & Zalocar de Domitrovic 1985). **Figs 3-4.** *Strombomonas ovata* Z.X.Shi & Q.X.Wang (3 - after Wang & Nie 1934; 4 – after Shi & al. 1999). **Fig. 5.** *Trachelomonas zmiewika* Svirenko (after Svirenko 1914).