

## OPINION 915

*TETRAHYMENA* FURGASON, 1940 (CILIOPHORA,  
HYMENOSTOMATIDA): PRESERVED UNDER THE PLENARY  
POWERS AND RELATED MATTERS

**RULING.**—(1) Under the plenary powers:

(a) the following names are hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy:

- (i) *Leptoglana* Grassé & de Boissezon, 1929;
- (ii) *Protobalantidium* Abé, 1927;
- (iii) *Ptyxidium* Perty, 1852;
- (iv) *Turchiniella* Grassé & de Boissezon, 1929;
- (v) *ovulum*, Müller, 1773, as published in the binomen *Enchelis ovulum*;
- (vi) *patula* Müller, 1786, as published in the binomen *Trichoda patula*;
- (vii) *pirum* Müller, 1786, as published in the binomen *Kolpoda pirum*;
- (viii) *pyrum* Ehrenberg, 1830, as published in the binomen *Trichoda pyrum*;
- (ix) LEUCOPHRYIDAE Mugard, 1949.

(b) the generic name *Tetrahymena* Furgason, 1940, is to be given precedence over the generic names *Lambornella* Keilin, 1921, *Leucophrydium* Roux, 1899, and *Paraglaucoma* Kahl, 1926, by any zoologist who considers the type-species of these genera to belong to the same genus-group taxon;

(c) the emendation to *Enchelys* of the generic name *Enchelis* Müller, 1773, is hereby validated;

(d) the emendation to *Colpoda* of the generic name *Kolpoda* Müller, 1773, is hereby validated;

(e) the specific name *patula* Ehrenberg, 1830, as published in the binomen *Leucophrys patula*, is hereby declared available despite the fact that Ehrenberg had no intention of publishing a new name;

(f) the emendation to *colpoda* of the specific name *kolpoda* (*Paramaecium*) Losana, 1829, is hereby validated;

(g) the specific name *pyriformis* Ehrenberg, 1830, as published in the binomen *Leucophrys pyriformis*, is to be given precedence over any earlier name published for the same species-group taxon.

(2) The following generic names are hereby placed on the Official List of Generic Names in Zoology with the Name Numbers specified:

(a) *Balantidium* Claparède & Lachmann, 1858 (gender: neuter), type-species, by monotypy, *Bursaria entozoon* Ehrenberg, 1838 (Name No. 1907);

(b) *Colpidium* Stein, 1860 (gender: neuter), type-species, by monotypy, *Paramaecium colpoda* Losana, 1829 (Name No. 1908);

(c) *Colpoda* (emend. under the plenary powers of *Kolpoda*) Müller, 1773 (gender: feminine), type-species, by designation by Taylor & Furgason, 1938, *Kolpoda cucullus* Müller, 1773 (Name No. 1909);



- (d) *Enchelys* (emend. under the plenary powers of *Enchelis*) Müller, 1773 (gender: feminine), type-species, by designation by Corliss & Dougherty, 1967, *Enchelis farcimen* Müller, 1773 (Name No. 1910);
- (e) *Glaucoma* Ehrenberg, 1830 (gender: feminine), type-species, by monotypy, *Glaucoma scintillans* Ehrenberg, 1830 (Name No. 1911);
- (f) *Tetrahymena* Furgason, 1940 (gender: feminine), type-species, by original designation, *Tetrahymena geleii* Furgason, 1940 (Name No. 1912).

(3) The following specific names are hereby placed on the Official List of Specific Names in Zoology with the Name Numbers specified:

- (a) *entozoon* Ehrenberg, 1838, as published in the binomen *Bursaria entozoon* (type-species of *Balantidium* Claparède & Lachmann, 1858) (Name No. 2388);
- (b) *colpoda* (emend. under the plenary powers of *kolpoda*) Losana, 1829, as published in the binomen *Paramaecium colpoda* (type-species of *Colpidium* Stein, 1860) (Name No. 2389);
- (c) *cucullus* Müller, 1773, as published in the binomen *Kolpoda cucullus* (type-species of *Colpoda* Müller, 1773) (Name No. 2390);
- (d) *farcimen* Müller, 1773, as published in the binomen *Enchelis farcimen* (type-species of *Enchelys* Müller, 1773) (Name No. 2391);
- (e) *scintillans* Ehrenberg, 1830, as published in the binomen *Glaucoma scintillans* (type-species of *Glaucoma* Ehrenberg, 1830) (Name No. 2392);
- (f) *pyriformis* Ehrenberg, 1830, as published in the binomen *Leucophrys pyriformis* (Name No. 2393);
- (g) *patula* Ehrenberg, 1830, as published in the binomen *Leucophrys patula* (Name No. 2394).

(4) The family-group name TETRAHYMENIDAE Corliss, 1952 (type-genus *Tetrahymena* Furgason, 1940) is hereby placed on the Official List of Family-Group Names in Zoology with the Name Number 448.

(5) The following generic names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology with the Name Numbers specified:

- (a) *Enchelis* Müller, 1773 (Ruled under the plenary powers in (1)(c) above to be an incorrect original spelling for *Enchelys*) (Name No. 1968);
- (b) *Kolpoda* Müller, 1773 (Ruled under the plenary powers in (1)(d) above to be an incorrect original spelling for *Colpoda*) (Name No. 1969);
- (c) *Leptoglana* Grassé & de Boissezon, 1929 (as suppressed under the plenary powers in (1)(a) above) (Name No. 1970);
- (d) *Leucopera* Gmelin, 1790 (an incorrect spelling for *Leucophra* Müller, 1780) (Name No. 1971);
- (e) *Leucophrus* Ehrenberg, 1838 (an incorrect spelling for *Leucophra* Müller, 1780) (Name No. 1972);
- (f) *Leucophrys* Ehrenberg, 1830 (an unjustified emendation of *Leucophra* Müller, 1780) (Name No. 1973);
- (g) *Paraglaucoma* Warren, 1932 (a junior homonym of *Paraglaucoma* Kahl, 1926) (Name No. 1974);



- (h) *Protobalantidium* Abé, 1927 (as suppressed under the plenary powers in (1)(a) above) (Name No. 1975);
  - (i) *Ptyxidium* Perty, 1852 (as suppressed under the plenary powers in (1)(a) above) (Name No. 1976);
  - (j) *Saprophilus* Stokes, 1887 (a junior homonym of *Saprophilus* Streubel, 1839) (Name No. 1977);
  - (k) *Tetrahymen* Mast & Pace, 1946 (an unjustified emendation of *Tetrahymena* Furgason, 1940) (Name No. 1978);
  - (l) *Tetrahymenia* Mugard, 1949 (an incorrect spelling for *Tetrahymena* Furgason, 1940) (Name No. 1979);
  - (m) *Turchiniella* Grassé & de Boissezon, 1929 (as suppressed under the plenary powers in (1)(a) above) (Name No. 1980).
- (6) The following specific names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology with the Name Numbers specified:

- (a) *kolpoda* Losana, 1829, as published in the binomen *Paramaecium kolpoda* (Ruled under the plenary powers in (1)(f) above to be an incorrect original spelling for *colpoda*) (Name No. 932);
  - (b) *ovulum* Müller, 1773, as published in the binomen *Enchelis ovulum* (as suppressed under the plenary powers in (1)(a) above) (Name No. 933);
  - (c) *patula* Müller, 1786, as published in the binomen *Trichoda patula* (as suppressed under the plenary powers in (1)(a) above) (Name No. 934);
  - (d) *piriformis* of the literature (an incorrect spelling of "*pyriformis*" which has caused considerable confusion) (Name No. 935);
  - (e) *pirum* Müller, 1786, as published in the binomen *Kolpoda pirum* (as suppressed under the plenary powers in (1)(a) above) (Name No. 936);
  - (f) *pyrum* Ehrenberg, 1830, as published in the binomen *Trichoda pyrum* (as suppressed under the plenary powers in (1)(a) above) (Name No. 937).
- (7) The following family-group names are hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology with the Name Numbers specified:

- (a) LEUCOPHRYIDAE Mugard, 1949 (type-genus *Leucophrys* Ehrenberg, 1830) (as suppressed under the plenary powers in (1)(a) above) (Name No. 451);
- (b) LEUCOPHRYENS Dujardin, 1841 (type-genus *Leucophrys* Ehrenberg, 1830) (a vernacular name) (Name No. 452);
- (c) LEUCOPHRYDAE Mugard, 1949 (type-genus *Leucophrys* Ehrenberg, 1830) (an incorrect original spelling for LEUCOPHRYIDAE) (Name No. 453).

#### HISTORY OF THE CASE (Z.N.(S.) 625)

The present case was submitted to the office of the Commission in a paper by Dr. John O. Corliss and the late Dr. Ellsworth C. Dougherty in February 1967. The application was sent to the printer on 3 March 1967 and was published on 30 June 1967 in *Bull. zool. Nomencl.* **24** : 155-185. Public Notice of the possible use of the plenary powers in the present case was given in the same part of the



*Bulletin* as well as to the other prescribed serial publications (Constitution Art. 12b; *Bull. zool. Nomencl.* **21** : 184). No comment was received.

#### DECISION OF THE COMMISSION

On 15 May 1969 the Members of the Commission were invited to vote under the Three-Month Rule on Voting Paper (69)26 either for or against the proposals set out in *Bull. zool. Nomencl.* **24** : 169–172. At the close of the prescribed voting period on 15 August 1969 the state of the voting was as follows:

Affirmative votes—twenty (20), received in the following order: China, Holthuis, Brinck, Lemche, Mayr, Eisenmann, Bonnet, Vokes, Obruchev, Uchida, Simpson, do Amaral, Evans, Jaczewski, Melville, Forest, Alvarado, Ride, Mertens, Kraus.

Negative votes—one (1): Starobogatov.

On Leave of Absence—one (1): Tortonese.

Voting Papers not returned—one (1): Munroe.

Commissioner Binder returned a late affirmative vote. Dr. Sabrosky did not vote. The following comments were made by Commissioners in returning their votes:

*Dr. L. B. Holthuis* (21.v.69): "This is one of the problems about which it is very difficult to get a good idea. The systematics of the group in question seem to be still in a state of confusion;

"I am afraid that if a name which is as recently proposed as *Tetrahymena* Furgason, 1940, is placed on the Official List, the Commission in the future will have to suppress still more names which—when the systematics of this group are straightened out—will prove to be senior synonyms of it.

"I wonder whether the name *Tetrahymena* is sufficiently commonly accepted that its replacement by an older name will really cause great confusion. This seems the more doubtful as several spellings have been used for it, and its usage is thus not uniform.

"Another thing that worries me is the fact that no reaction is received on this application. Other zoologists dealing with this group evidently are not interested in the problem at all.

"My first reaction therefore was to vote against the proposal in the hope that a strict application of the Code in this case would be simpler and in the end lead to a more stable solution than the very complicated procedure asked in the present application.

"On the other hand I know nothing about this group and Dr. Corliss seems to have very well considered all sides of the problem."

*Prof. P. Brinck* (22.v.69): "I agree that nomenclatorial stability is urgently needed among these ciliate protozoa and I vote for the proposal, but I question whether the type-species listed in 52(3) are all unequivocally characterized, i.e. definitely recognizable from the original descriptions. Therefore, definite references to the 'first revisers' or similar critical revisions would have been useful to avoid the names 'floating' from one taxonomic unit to another, as work on these ciliate species proceeds."



Dr. Y. Starobogatov (4.viii.69): "If we accept these proposals we shall have to emend them some years after. It is better to discuss each genus-group name separately."

Dr. W. D. L. Ride (14.viii.69): "This case is an unusual circumstance in which a group with little modern taxonomic literature has, nevertheless, a very large professional literature. Under usual circumstances the presentation by applicants of a poorly worked taxonomic situation to the Commission with a request that it suppress a whole host of available names because of their possible subjective synonymy would scarcely merit the use of the plenary powers. But the applicants have presented a convincing case that stability of nomenclature in this group would be well served by the Commission virtually giving to workers with the group a new starting date for nomenclature. In reaching a decision I find myself hampered by lack of specialist comment but, having accepted the assurance of the Secretary that he has verified the factual presentation, I vote in the affirmative. I am puzzled, though, why, in the midst of so many requests for suppression we are asked to agree to the disposal of the generic names *Acomia*, *Trichoda* and *Leucophras* (and the type-species associated with them) through introducing permanent instability by making them nomina dubia. I hope that sufficient Commissioners raise this to have the six names added to the list of names to be suppressed in para. 52 (1)(a)."

#### ORIGINAL REFERENCES

The following are the original references for names placed on Official Lists and Indexes by the Ruling given in the present Opinion:

*Balantidium* Claparède & Lachmann, 1858, *Mem. Inst. nat. genevois* **5** (3) : 247

*Colpidium* Stein, 1860, *SitzBer. Königl.-Böhm. Ges. Wiss.* **1860** (1) : 47

*Colpoda* Müller, 1773, *Verm. terrestr. fluviat. Hist.* **1** : 56

*colpoda*, *Paramaecium*, Losana, 1829, *Mem. R. Accad. Sci. Torino* **29** (Class Sci. Fis. e Mat.) : 45

*cucullus*, *Kolpoda*, Müller, 1773, *Verm. terrestr. fluviat. Hist.* **1** : 58

*Enchelis* Müller, 1773, an incorrect original spelling for *Enchelys* q.v.

*Enchelys* Müller, 1773, *Verm. terrestr. fluviat. Hist.* **1** : 34

*entozoon*, *Bursaria*, Ehrenberg, 1838, *Die Infusionsth.* : 327

*farcimen*, *Enchelis*, Müller, 1773, *Verm. terrestr. fluviat. Hist.* **1** : 34

*Glaucoma* Ehrenberg, 1830, *Organization syst. geogr. Verhalt. Infusionsth.* : 96

*Kolpoda* Müller, 1773, an incorrect original spelling for *Colpoda* q.v.

*kolpoda*, *Paramaecium*, Losana, 1829, an incorrect original spelling for *colpoda* q.v.

*Leptoglana* Grassé & de Boissezon, 1929, *Bull. Soc. zool. France* **54** (3) : 187

*Leucopera* Gmelin, 1790, in Linnaeus, *Syst. Nat.* (ed. 13) **1** : 3028

*Leucophras* Ehrenberg, 1838, *Die Infusionsth.* : 311

LEUCOPHRYDAE Mugard, 1949, an incorrect original spelling for LEUCOPHRYIDAE q.v.

LEUCOPHRYENS Dujardin, 1841, *Hist. nat. Zoophytes* : 456

LEUCOPHRYIDAE Mugard, 1949, *Ann. Sci. nat., Zool. Biol. animale* (3) **10** (2) :



- Leucophrys* Ehrenberg, 1830, *Organization syst. geogr. Verhalt. Infusionsth.*: 96  
*ovulum*, *Enchelis*, Müller, 1773, *Verm. terrestr. fluviat. Hist.* **1** : 36  
*Paraglaucoma* Warren, 1932, *Ann. Natal Mus.* **7** (1) : 11  
*patula*, *Leucophrys*, Ehrenberg, 1830, *Organization syst. geogr. Verhalt. Infusionsth.*: 95  
*patula*, *Trichoda*, Müller, 1786, *Anim. Infus. fluviat. marin.*: 181  
*pirum*, *Kolpoda*, Müller, 1786, *Anim. Infus. fluviat. marin.*: 108  
*pyriformis*, *Leucophrys*, 1830, *Organization syst. geogr. Verhalt. Infusionsth.*: 96  
*pyrum*, *Trichoda*, Ehrenberg, 1830, *Organization syst. geogr. Verhalt. Infusionsth.*: 96  
*Protobalantidium* Abé, 1927, *Dobutsugaku Zasshi* **39** (412) : 194  
*Ptyxidium* Perty, 1852, *Kenntniss Kleinster Lebensformen*: 148  
*Saprophilus* Stokes, 1887, *J. Trenton nat. Hist. Soc.* **1** (3) : 247  
*scintillans*, *Glaucoma*, Ehrenberg, 1830, *Organization syst. geogr. Verhalt. Infusionsth.*: 98  
*Tetrahymen* Mast & Pace, 1946, *Physiol. Zool.* **19** (3) : 232  
*Tetrahymena* Furgason, 1940, *Arch. Protistenk.* **94** (2) : 258  
*Tetrahymenia* Mugard, 1949, *Ann. Sci. nat., Zool. Biol. animale* (3) **10** (2) : 182  
TETRAHYMENIDAE Corliss, 1952, *Proc. Soc. Protozool.* **3** : 3  
*Turchiniella* Grassé & de Boissezon, 1929, *Bull. Soc. zool. France* **54** (3) : 187  
The following are the original references for designations of type-species for genera concerned in the present Ruling:  
For *Colpoda* Möller, 1773: Taylor & Furgason, 1938, *Arch. Protistenk.* **90** (2) : 321-322  
For *Enchelys* Müller, 1773: Corliss & Dougherty, 1967, *Bull. zool. Nomencl.* **24** (3) : 161-162.

#### CERTIFICATE

We certify that the votes cast on Voting Paper (69)26 were cast as set out above, that the proposal contained in that Voting Paper has been duly adopted under the plenary powers, and that the decision so taken, being the decision of the International Commission, is truly recorded in the present Opinion No. 915.

R. V. MELVILLE  
 Secretary

*International Commission on Zoological Nomenclature*

W. E. CHINA  
 Assistant Secretary

London

16 October 1969



International Commission on Zoological Nomenclature. 1970. "Opinion 915. Tetrahymena Furgason, 1940 (Ciliophora, Hymenostomatida): preserved under the plenary powers and related matters." *The Bulletin of zoological nomenclature* 27, 33–38.

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