

OPINION 2027 (Case 3010)**Usage of 17 specific names based on wild species which are pre-dated by or contemporary with those based on domestic animals (Lepidoptera, Osteichthyes, Mammalia): conserved**

Abstract. The Commission has conserved the usage of 17 specific names based on wild species, which are pre-dated by or contemporary with those based on domestic forms. The majority of wild progenitors and their domestic derivatives share the same name, but in the 17 cases considered (1 Lepidoptera, 1 Osteichthyes and 15 Mammalia) the wild and domestic forms have been separately named and this has created confusion.

Keywords. Nomenclature; taxonomy; Mammalia; Perissodactyla; Artiodactyla; Rodentia; Carnivora; Lepidoptera; Osteichthyes; names for wild species with domestic derivatives; *Equus africanus*; *Equus ferus*; *Camelus ferus*; *Lama guanicoe*; *Vicugna vicugna*; *Bos primigenius*; *Bos gaurus*; *Bubalus arnee*; *Bos mutus*; *Capra aegagrus*; *Ovis orientalis*; *Cavia aperea*; *Canis lupus*; *Mustela putorius*; *Felis silvestris*; *Carassius gibelio*; *Bombyx mandarina*; ass; tarpan; Bactrian camel; guanaco; vicuña; aurochs; gaur; water buffalo; yak; bezoar; Asian mouflon; guinea pig; wolf; polecat; wildcat; Prussian carp; gibel carp; mulberry silk moth.

Ruling

- (1) Under the plenary power:
 - (a) it is hereby ruled that the name for each of the wild species listed in (2) and (3) below is not invalid by virtue of being pre-dated by a name based on a domestic form;
 - (b) the name *ferus* Falk, 1786, as published in the trinomen *Camelus dromedarius ferus*, and all uses of the name *Camelus ferus* prior to the publication of *Camelus ferus* Przewalski, 1878, is hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy.
- (2) The following names are hereby placed on the Official List of Specific Names in Zoology:
 - (a) *africanus* Heuglin & Fitzinger, 1866, as published in the binomen *Equus africanus* (North African wild ass) (Mammalia);
 - (b) *ferus* Boddaert, 1785, as published in the binomen *Equus ferus* (Russian wild horse, tarpan) (Mammalia);
 - (c) *ferus* Przewalski, 1878, as published in the trinomen *Camelus bactrianus ferus* (wild Bactrian camel, now restricted to the western Gobi desert) (Mammalia);
 - (d) *guanicoe* Müller, 1776, as published in the binomen *Camelus guanicoe* (South American guanaco) (Mammalia);
 - (e) *vicugna* Molina, 1782, as published in the binomen *Camelus vicugna* (South American vicuña) (Mammalia);

- (f) *primigenius* Bojanus, 1827, as published in the binomen *Bos primigenius* (aurochs of Europe, Asia and North Africa, extinct since 1627) (Mammalia);
 - (g) *arnee* Kerr, 1792, as published in the binomen *Bos arnee* (Indian water buffalo, arni) (Mammalia);
 - (h) *mutus* Przewalski, 1883, as published in the binomen *Poephagus mutus* (Asian yak) (Mammalia);
 - (i) *aegagrus* Erxleben, 1777, as published in the binomen *Capra aegagrus* (bezoar of the Middle East) (Mammalia);
 - (j) *orientalis* Gmelin, 1774, as published in the binomen *Ovis orientalis* (mouflon of Western Asia) (Mammalia);
 - (k) *aperea* Erxleben, 1777, as published in the binomen *Cavia aperea* (South American cavy) (Mammalia);
 - (l) *lupus* Linnaeus, 1758, as published in the binomen *Canis lupus* (wolf of the Palaearctic, India and North America) (Mammalia);
 - (m) *gibelio* Bloch, 1782, as published in the binomen *Cyprinus gibelio* (Prussian or gibel carp of Central Europe to East Asia) (Osteichthyes);
 - (n) *mandarina* Moore, 1872, as published in the binomen *Theophila mandarina* (mulberry silk moth of China, Korea and Japan) (Lepidoptera).
- (3) To the entries for the following specific names on the Official List of Specific Names in Zoology is hereby added an endorsement to record the ruling in (1)(a) above:
- (a) *gaurus* H. Smith, 1827, as published in the binomen *Bos gaurus* (gaur of India, Burma and Malaya) (Mammalia);
 - (b) *putorius* Linnaeus, 1758, as published in the binomen *Mustela putorius* (polecat of Europe, Middle East and Morocco) (Mammalia);
 - (c) *silvestris* Schreber, 1777, as published in the trinomen *Felis catus silvestris* (wildcat of Western Europe to Western China and Central India, much of Africa) (Mammalia).
- (4) The name *ferus* Falk, 1786, as published in the trinomen *Camelus dromedarius ferus* (Mammalia) and as suppressed in (1)(b) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 3010

An application for the conservation of usage of the first available specific name based on a wild population for 15 wild species of mammals with domestic derivatives was received from Mrs Anthea Gentry (*Cuckfield, Haywards Heath, West Sussex, U.K.*), Dr Juliet Clutton-Brock (*Working Group on Nomenclature, International Council of Archaeozoology, clo The Natural History Museum, London, U.K.*) and Prof Colin P. Groves (*The Australian National University, Canberra, A.C.T., Australia*) on 14 December 1995. The case was published in BZN 53: 28–37 (March 1996). Notice of the case was sent to appropriate journals.

Comments in support of the application were published in the following issues of the *Bulletin of Zoological Nomenclature*:

BZN 53: 125 (June 1996).

BZN 53: 192–200 (September 1996). 18 comments, with a note of support from a further five authors.

BZN 53: 286–288 (December 1996). Four comments.

BZN 54: 119–123 (June 1997). Four comments.

BZN 54: 189 (September 1997).

BZN 55: 43–46 (March 1998).

BZN 55: 119–120 (June 1998).

BZN 56: 72–73 (March 1999). Two comments.

BZN 58: 231–233 (September 2001).

Four comments opposing the application were published in BZN 54: 123–127 (June 1997). A reply by the authors of the application was published at the same time. Further replies were included in comments by Dr I. Lehr Brisbin (*The University of Georgia, Aiken, South Carolina, U.S.A.*; BZN 55: 43–46, March 1998), Dr Christian R. Altaba (*Institut Mediterrani d'Estudis Avançats, Palma de Mallorca, Illes Balears, Spain*; BZN 55: 119–120, June 1998) and Prof Hans-Peter Uerpman (*Institut für Ur- und Frühgeschichte und Archäologie des Mittelalters, Tübingen, Germany*; BZN 58: 231–233, September 2001).

An opposing comment was also published in BZN 56: 280–282 (December 1999). Replies to this comment were published by Prof Uerpman and by the authors of the application in BZN 58: 231–234 (September 2001).

A statement of the intention and scope of the application was published by the authors of the case in BZN 59: 48–50 (March 2002).

In his supportive comment, published in BZN 53: 194 (September 1996), Dr Achilles Gautier (*Universiteit Gent, Gent, Belgium*) recommended that for consistency *Cyprinus* (currently *Carassius*) *gibelio* Bloch, 1782 and *Theophila* (currently *Bombyx*) *mandarina* Moore, 1872 should be placed on the Official List as the specific names for the wild species of Prussian or gibel carp and the mulberry silk moth respectively (para. 10 of the application). On the voting paper it was proposed that these names be added to the list of those in para. 11(2) of the application and they have been included in the current ruling.

Dr A.V. Abramov (*Zoological Institute, Russian Academy of Sciences, St Petersburg, Russia*), also commenting in support of the application (BZN 53: 287, December 1996), noted that the name *Camelus ferus* (published as *C. bactrianus ferus*) dates from Przewalski (1878), and not Przewalski (1883) as given in the application. He proposed that the earlier homonym *C. dromedarius ferus* Falk, 1786 be suppressed to conserve Przewalski's (1878) name. The date for *C. ferus* Przewalski was emended in para. 11(2)(c) of the application, and the additional proposals published in BZN 53: 287 were submitted for voting. Suppression of the name *C. dromedarius ferus* Falk, 1786 has been incorporated in the current ruling.

The specific names of *Felis silvestris* Schreber, 1777 and *Bos gaurus* H. Smith, 1827 were placed on the Official List in Opinions 465 (May 1957) and 1348 (September 1985) respectively. The specific name of *Mustela putorius* Linnaeus, 1758 (type species of *Putorius* Cuvier, 1816, placed on the Official List in Opinion 91, October 1926) was placed on the Official List in Direction 22 (November 1955).

The names listed in the ruling above, which are the first available names in use based on wild populations, apply to wild species and include those for their domestic derivatives if these are not distinguishable.

Decision of the Commission

On 1 September 2002 the members of the Commission were invited to vote on the proposals published in BZN 53: 33 (with the emendment of the date of *Camelus bactrianus ferus* Przewalski to 1878), the proposals published in BZN 53: 287, and the addition of the specific names of *Cyprinus gibelio* Bloch, 1782 and *Theophila mandarina* Moore, 1872.

At the close of the voting period on 1 December 2002 the votes were as follows: 19 Commissioners voted FOR the proposals, 5 Commissioners voted AGAINST, Bouchet abstained, no votes were received from Böhme and Dupuis. Ng was on leave of absence.

Original references

The following are the original references to the names placed on an Official List, on an Official Index, and the names on an Official List for which the entries are endorsed, by the ruling given in the present Opinion:

- aegagrus*, *Capra*, Erxleben, 1777, *Systema regni animalis* . . . Classis 1 (Mammalia), p. 260.
africanus, *Equus*, Heuglin & Fitzinger, 1866, *Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe*, 54: 588.
aperea, *Cavia*, Erxleben, 1777, *Systema regni animalis* . . . Classis 1 (Mammalia), p. 348.
arnee, *Bos*, Kerr, 1792, *The animal kingdom or zoological system of the celebrated Sir Charles Linnaeus*, vol. 1, part 1 (Mammalia), p. 336.
ferus, *Camelus bactrianus*, Przewalski, 1878, *From Kul'dzha through Tyan'-Shan' to Lob-Nor*, pp. 20, 43. [In Russian].
ferus, *Camelus dromedarius*, Falk, 1786, *Beiträge zur topographischen Kenntnis des Russischen Reiches*, vol. 3, p. 292.
ferus, *Equus*, Boddaert, 1785, *Elenchus Animalium*, vol. 1 (Sistens Quadrupedia), p. 159.
gaurus, *Bos*, H. Smith, 1827, *The Ruminantia*. Vol. 4 in Griffith, E., Smith, C.H. & Pidgeon, E. (Eds.), *The animal kingdom arranged in conformity with its organisation, by the Baron Cuvier, with additional descriptions of all the species hitherto named, and of many not before noticed*, p. 399.
gibelio, *Cyprinus*, Bloch, 1782, *Oeconomische Naturgeschichte der Fische Deutschlands*, vol. 1, p. 71.
guanicoe, *Camelus*, Müller, 1776, *Des Ritters Carl von Linné . . . vouständigen Natursystems. Supplements und Register*, p. 50.
lupus, *Canis*, Linnaeus, 1758, *Systema Naturae*, Ed. 10: vol. 1, p. 39.
mandarina, *Theophila*, Moore, 1872, *Proceedings of the Zoological Society of London*, 1872: 576.
mutus, *Poephagus*, Przewalski, 1883, *Third journey in Central Asia. From Zaisan through Khami into Tibet and to the sources of the Yellow River*, p. 191. [In Russian].
orientalis, *Ovis*, Gmelin, 1774, *Reise durch Russland zur Untersuchung der drey Natur-Reiche*, vol. 3, pp. 432, 486.
primigenius, *Bos*, Bojanus, 1827, *Nova Acta Physico-Médica Academiae Caesareae Leopoldino Carolinae*, 13(2): 477.
putorius, *Mustela*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 46.
silvestris, *Felis catus*, Schreber, 1777, *Die Säugethiere in Abbildungen nach der Natur, mit Beschreibungen*, vol. 3, p. 39.
vicugna, *Camelus*, Molina, 1782, *Saggio sulle storia naturale del Chile*, p. 313.