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CATALOGUE OF TYPE SPECIMENS IN THE VERTEBRATE
COLLECTIONS OF THE MUSEUM OF GEOLOGY
AND PALAEONTOLOGY
OF THE UNIVERSITY OF FLORENCE (ITALY).
I. CARNIVORA, CANIDAE

Riassunto — Catalogo dei tipi presenti nelle collezioni di vertebrati del Museo di Geologia e Paleontologia dell'Università di Firenze. Carnivora, Canidae. Gli esemplari tipo dei Canidi conservati presso il Museo di Firenze appartengono a 6 specie diverse: *Canis falconeri*, *Canis etruscus*, *Canis majori*, *Canis olivolanus*, *Canis arnensis*, *Canis alopecoides*. Provengono tutti dalla Toscana, dai bacini del Valdarno e di Olivola. L'età è Villafranchiana.

Summary — The type specimens of Canids preserved in the Museum of Geology and Paleontology of the University of Florence belong to 6 different species: *Canis falconeri*, *Canis etruscus*, *Canis majori*, *Canis olivolanus*, *Canis arnensis*, *Canis alopecoides*. The material comes from Tuscany, from the basins of Valdarno and Olivola (Magra Valley). The age is Villafranchian.

Key words — Carnivora, types, Villafranchian.

The collections of the Museum of Geology and Palaeontology of the Florence University count several types of vertebrates and invertebrates. With the publication of the catalogue of types of Canids we open the series devoted to vertebrates which has as final object the publication of the catalogue of all the types preserved in the Museum. The catalogues of types of invertebrates — some of which published by L. DELLE CAVE (1980; 1982) on the Arthropods (Decapoda and Trilobita) — are to be added at this series.

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The type specimens belonging to the Family Canidae, preserved in the Geological and Palaeontological Museum of Florence, are composed by 36 specimens relating to 6 different species. These species are: *Canis falconeri*, *Canis etruscus*, *Canis majori*, *Canis olivolanus*, *Canis arnensis*, *Canis alopecoides*.

Among these species, *Canis falconeri*, *Canis etruscus*, *Canis arnensis*, are now considered valid (TORRE, 1967); *Canis alopecoides* has been transferred to the genus *Vulpes*, becoming *Vulpes alopecoides* (VIRET, 1954).

The species *Canis majori* and *Canis olivolanus* were established by DEL CAMPANA (1931) on the ground of morphological criteria which afterwards were not considered valid for a specific subdivision. So the two species established by DEL CAMPANA (1913) were placed in synonymy of *Canis etruscus* Major 1877 (TORRE, 1967).

The type specimens come from Tuscany, from the basins of Upper Valdarno and of Olivola (Magra Valley); two specimens (IGF 11781, IGF 11782) come from the Lower Valdarno (Peccioli).

The age of specimens from the Upper Valdarno and Olivola is Late Villafranchian. The two specimens of Peccioli (IGF 11781, IGF 11782) have been ascribed to Early Villafranchian (TORRE, 1967), even if this attribution is uncertain (Early or Late Villafranchian?) because of the inadequate stratigraphic indications supplied by their collector (R. LAWLEY, 1875).

This catalogue has been prepared in accordance with the type terminology of the International Code of Zoological Nomenclature (1964) and follows the outline of the preceding catalogues of type specimens in the palaeontological collections of the Florence Museum (DELLE CAVE, 1980, 1982).

All catalogue numbers of florentine Museum are preceded by the acronym «IGF» (Istituto di Geologia di Firenze).

Order: CARNIVORA BOWDICH, 1821

Suborder: FISSIPEDA Blumenbach, 1791

Infraorder: ARCTOIDEA Flower, 1869

Superfamily: CANOIDEA Simpson, 1931

Family: CANIDAE Gray, 1821

Subfamily: CANINAE Gill, 1872

Genus: *Canis* Linneus, 1758

Species of which are preserved type specimens	Correspondent species actually recognized
<i>Canis falconeri</i> Major 1877 IGF 883 (HOLOTYPE)	<i>Canis falconeri</i> Major 1877
<i>Canis etruscus</i> Major 1877 IGF 12334 (PLASTOLECTOTYPE); IGF: 856, 861, 864, 866, 871, 872, 873, 881, 888, 11779, 11780, 11783 (PARALECTO- TYPES) IGF 870 (PLASTOPARALECTOTYPE)	<i>Canis etruscus</i> Major 1877
<i>Canis majori</i> Del Campana 1913 IGF: 861, 864, 872, 873, 11779, 11780 (SYNTYPES)	/ <i>Canis etruscus</i> Major 1877
<i>Canis olivolanus</i> Del Campana 1913 IGF: 888, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4414, 4486, 11781, 11782 (SYNTYPES)	/ <i>Canis etruscus</i> Major 1877
<i>Canis arnensis</i> Del Campana 1913 IGF 867 (LECTOTYPE); IGF: 868, 869, 876, 877, 878, 887 (PARA- LECTOTYPES)	<i>Canis arnensis</i> Del Campana 1913
<i>Canis alopecoides</i> Del Campana 1913 (ex Major in schedis) IGF 12110 (HOLOTYPE)	<i>Vulpes alopecoides</i> (Del Campana 1913, ex Major in schedis)

1) *Canis falconeri* Major 1877

IGF 883 = HOLOTYPE. Fragment of skull with a portion of maxillaries with P3, P4, M1, M2, M3 (this one only on the right side) and very worn incisors and canines.

Upper Valdarno, Le Ville, near Terranuova Bracciolini. Purchased from F. Brilli in 1872 according to the Museum catalogue, from Pieralli according to Major (1877, p. 215).

Canis falconeri Major, 1877, p. 215 and 220, pl. 14, fig. 20.

Canis falconeri; Del Campana, 1913, p. 220-225, pl. 19, figs. 5a, 5b.

Canis falconeri; Torre, 1967, p. 132, pl. 5, figs. 3, 3a, p. 126, text-fig. 4h.

2) **Canis etruscus** Major 1877

IGF12334 = PLASTOLECTOTYPE. Skull and jaw, with almost all teeth. The original is in the Museum of Montevarchi, MCM 47. Ostine, near Renacci, Figline, Upper Valdarno. Late Villafranchian.

Canis etruscus Major, 1877, p. 215, pl. 14, figs. 1, 2, 3, 22.

Canis etruscus; Del Campana, 1913, p. 192, pl. 13, figs. 1a, 1b, 2, tab. measur. = A1, B3.

Canis etruscus; Torre, 1967, p. 117, pl. 1, figs. 1, 1a, 1b.

IGF856 = PARALECTOTYPE. Right mandibular ramus. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 208, pl. 14, fig. 13.

Canis etruscus; Del Campana, 1913, p. 212, pl. 14, figs. 3a, 3b.

Canis etruscus; Torre, 1967, p. 117-118, pl. 4, figs. 4,4a.

IGF861 = PARALECTOTYPE. Right maxillary. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 215, specimen n. 4.

Canis majori Del Campana, 1913, p. 213.

Canis etruscus; Torre, 1967, p. 117.

IGF864 = PARALECTOTYPE. Left mandibular ramus, with P3, P4, M1, M2. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 208.

Canis majori Del Campana, 1913, p. 213, pl. 18, figs. 3a, 3b.

Canis etruscus; Torre, 1967, p. 117.

IGF866 = PARALECTOTYPE. Left mandibular ramus. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 209, pl. 14, fig. 14.

Canis etruscus; Del Campana, 1913, p. 212, pl. 14, figs. 2a, 2b.

Canis etruscus; Torre, 1967, p. 117-118.

IGF870 = PLASTOPARALECTOTYPE. Right mandibular ramus (cast) with P4, M1, M3. From the Strozzi Collection, 1875. Upper Valdarno. Late Villafranchian.

Canis etruscus Major, 1877, p. 209, pl. 13, fig. 10.

Canis etruscus; Torre, 1967, p. 117.

IGF871 = PARALECTOTYPE. Right mandibular ramus. Upper Valdarno. From Strozzi Collection, 1870. Late Villafranchian.

Canis etruscus Major, 1877, p. 208, pl. 13, fig. 8.

Canis etruscus; Torre, 1967, p. 117-118, pl. 4, figs. 1, 1a, 1b, p. 126, text-fig. 4.

IGF872 = PARALECTOTYPE. Left mandibular ramus. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 209, pl. 13, fig. 2 (figured as right).

Canis majori Del Campana, 1913, p. 213, pl. 16, figs. 1a, 1b.

Canis etruscus; Torre, 1967, p. 117-118, pl. 4, fig. 3.

IGF873 = PARALECTOTYPE. Right mandibular ramus. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 208.

Canis majori Del Campana, 1913, p. 213, pl. 18, figs. 2a, 2b.

Canis etruscus; Torre, 1967, p. 117.

IGF881 PARALECTOTYPE. Left mandibular ramus with P4, M1, M3. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 210-211, pl. 13, fig. 4.

Canis etruscus; Torre, 1967, p. 117-118.

IGF888 = PARALECTOTYPE. Complete jaw with P2, P3, P4, M1 both left and right, and left M2. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 210-211, pl. 13, fig. 3.

Canis olivolanus Del Campana, 1913, p. 213, pl. 14, figs. 1a, 1b.

Canis etruscus; Torre, 1967, p. 117-118.

IGF11779 = PARALECTOTYPE. Left maxillary, fragment with P4, M1, M2. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877, p. 215, specimen n. 3.

Canis majori Del Campana, 1913, p. 213.

Canis etruscus; Torre, 1967, p. 117.

IGF11780 = PARALECTOTYPE. Fragment of right maxillary with P4 and M1. Upper Valdarno. According to Major (1877) purchased in 1873 from the collector Pieralli (p. 215); according to the Museum catalogue, purchased in 1865. Late Villafranchian.

Canis etruscus Major, 1877, p. 215, specimen n. 5, p. 219, pl. 14, figs. 7, 11, 15.

Canis majori Del Campana, 1913, p. 213, pl. 19, figs. 3a, 3b.

Canis etruscus; Torre, 1967, p. 117.

IGF11783 = PARALECTOTYPE. Two fourth upper right premolars, one third lower right premolar, one first lower right molar. Upper Valdarno, Vacchereccia. Late Villafranchian.

Canis etruscus Major, 1877, p. 209, pl. 13, fig. 7, pl. 14, figs. 6, 10.

Canis etruscus; Torre, 1967, p. 117-118.

Referred specimens:

IGF11781 = Left mandibular ramus, lacking of the ascending ramus, with well preserved I3, C, P1, P2, P3, P4, M1, M2. Lower Valdarno, Podere «Il Tesoro», near Peccioli. Present of Cav. R. Lawley, 1880. Early or Late Villafranchian?

Canis etruscus Major?, 1877, p. 212-214, pl. 14, figs. 27, 28.

Canis olivolanus Del Campana, 1913, p. 213, pl. 17, figs. 2a, 2b.

Canis etruscus; Torre, 1967, p. 117-118.

IGF11782 = First upper right molar tooth. Lower Valdarno, Poderone «Il Tesoro», near Peccioli. Present of Cav. R. Lawley, 1875. Early or Late Villafranchian?

Canis etruscus Major?, 1877, p. 215, specimen n. 6, pl. 14, fig. 17.

Canis olivolanus Del Campana, 1913, p. 193, p. 214.

Canis etruscus; Torre, 1967, p. 117.

3) **Canis majori** Del Campana 1913

IGF861 = SYNTYPE. Right maxillary. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 215, specimen n. 4.

Canis majori Del Campana, 1913, p. 213.

Canis etruscus; Torre, 1967, p. 117.

IGF864 = SYNTYPE. Left mandibular ramus with P3, P4, M1, M2. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 208.

Canis majori Del Campana, 1913, p. 213, pl. 18, figs. 3a, 3b.

Canis etruscus; Torre, 1967, p. 117.

IGF872 = SYNTYPE. Left mandibular ramus. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 209, pl. 13, fig. 2 (figured as right).

Canis majori Del Campana, 1913, p. 213, pl. 16, figs. 1a, 1b.

Canis etruscus; Torre, 1967, p. 117-118, pl. 4, fig. 3.

IGF873 = SYNTYPE. Right mandibular ramus. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 208.

Canis majori Del Campana, 1913, p. 213, pl. 18, figs. 2a, 2b.

Canis etruscus; Torre, 1967, p. 117.

IGF11779 = SYNTYPE. Left maxillary, fragment with P4, M1, M2. Upper Valdarno. From Grand Ducal Collections. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 215, specimen n. 3.

Canis majori Del Campana, 1913, p. 213.

Canis etruscus; Torre, 1967, p. 117.

IGF11780 = SYNTYPE. Fragment of right maxillary, with P4, M1. Upper Valdarno. According to Major (1877) purchased in 1873 from the collector Pieralli (p. 215); in the Museum catalogue dated 1865. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 215, specimen n. 5, p. 219, pl. 14, figs. 7, 11, 15.

Canis majori Del Campana, 1913, p. 213, pl. 19, figs. 3a, 3b.

Canis etruscus; Torre, 1967, p. 117.

4) **Canis olivolanus** Del Campana 1913

IGF888 = SYNTYPE. Complete jaw with both right and left P2, P3, P4, M1 and M2 left. Upper Valdarno. Late Villafranchian.

Canis etruscus Major, 1877 (partim), p. 210-211, pl. 13, fig. 3.

Canis olivolanus Del Campana, 1913, p. 213, pl. 14, figs. 1a, 1b.

Canis etruscus; Torre, 1967, p. 117-118.

IGF4406 = SYNTYPE. Skull lacking of the anterior part, until the carnassials; it preserves some fragments of the carnassials and right M1 broken. Olivola, Magra Valley. From Mr. Major, 1890.

Canis olivolanus Del Campana, 1913, p. 193, p. 213, tab. measur. = A IX.

Canis etruscus; Torre, 1967, p. 117, pl. 3, figs. 1, 1a, 1b.

IGF4407 = SYNTYPE. Incomplete skull, lacking of the braincase and the zygomatic arches, but preserving C, P3, P4, M1, M2 right and P3, P4, M1, M2 left. Olivola, Magra Valley. Collected by Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 213, pl. 15, figs. 1a, 1b, 1c.

Canis etruscus; Torre, 1967, p. 117, p. 119, text-fig. 1, pl. 2, figs. 3, 3a, 3b, 3c.

IGF4408 = SYNTYPE. Facial region of skull with left I1, I2, I3 and right I1, I2; right C; right P4, M1, M2; left P3, P4, M1, M2. Olivola, Magra Valley. From Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 213, tab. measur. = A X.

Canis etruscus; Torre, 1967, p. 117.

IGF4409 = SYNTYPE. Skull with only the braincase. Olivola, Magra Valley. From Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 213, p. 193.

Canis etruscus; Torre, 1967, p. 117, pl. 2, figs. 2, 2a, 2b.

IGF4410 = SYNTYPE. Skull lacking of the zygomatic arches, of the left premaxillary, maxillary, frontal and parietal bones and of the canines and right P1. Olivola, Magra Valley. From Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 213, pl. 18, fig. 1, pl. 17, figs. 1a, 1b.

Canis etruscus; Torre, 1967, p. 117-118, pl. 1, figs. 3, 3a.

IGF4411 = SYNTYPE. Anterior region of skull, with P4, M1, M2 both right and left. Olivola, Magra Valley. Collected by Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 193, p. 213, tab. measur. = A XIII.

IGF4412 = SYNTYPE. Skull with the jaw, included in the rock, transversally deformed. Olivola, Magra Valley. Collected by Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 193, p. 213.

Canis etruscus; Torre, 1967, p. 117, p. 119, text-fig. 1, p. 122, text-fig. 3, pl. 3, figs. 2, 2a.

IGF4413 = SYNTYPE. Left mandibular ramus lacking of the coronoid process and of the teeth P1, P2, M2, M3. Olivola, Magra Valley. Collected by Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 213, pl. 16, figs. 2a, 2b.

Canis etruscus; Torre, 1967, p. 117, pl. 5, fig. 1.

IGF4414 = SYNTYPE. Right mandibular ramus, lacking of the incisors and of third molar tooth. Olivola, Magra Valley. Collected by Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 213, pl. 15, fig. 2, pl. 16, fig. 3.

Canis etruscus; Torre, 1967, p. 117, p. 125, pl. 5, fig. 2.

IGF4486 = SYNTYPE. Fragment of right maxillary, with P3, P4, M1, M2. Olivola, Magra Valley. Collected by Mr. Major, 1890. Late Villafranchian.

Canis olivolanus Del Campana, 1913, p. 193, p. 213.

Canis etruscus; Torre, 1967, p. 117.

IGF11781 = SYNTYPE. Left mandibular ramus, lacking of the ascending ramus, with well preserved I3, C, P1, P2, P3, P4, M1, M2. Lower Valdarno, Podere «Il Tesoro», near Peccioli. Present of Cav. R. Lawley, 1880. Early or Late Villafranchian?

Canis etruscus Major, 1877 (partim), p. 212-214, pl. 14, figs. 27, 28.

Canis olivolanus Del Campana, 1913, p. 213, pl. 17, figs. 2a, 2b.

Canis etruscus; Torre, 1967, p. 117-118.

IGF11782 = SYNTYPE. First upper right molar tooth. Lower Valdarno, Podere «Il Tesoro», near Peccioli. Present of Cav. R. Lawley, 1875. Early-Late Villafranchian?

Canis etruscus Major, 1877 (partim), p. 215, specimen n. 6, pl. 14, fig. 17.

Canis olivolanus Del Campana, 1913, p. 193, p. 214.

Canis etruscus; Torre, 1967, p. 117.

5) ***Canis arnensis*** Del Campana 1913

IGF867 = LECTOTYPE. Skull, laterally compressed, lacking in the condyles and part of the zygomatic arches, complete of the jaw, without the anterior part of right ramus and the ascending ramus. It is probably a very old specimen. Le Strette al Tasso, Upper Valdarno. Purchased in 1882 from the farmer Pacciani. Late Villafranchian.

Canis arnensis Del campana, 1913, p. 230, pl. 21, fig. 2, pl. 22, fig. 2.

Canis arnensis; Torre, 1967, p. 134, pl. 6, figs. 2, 2a, pl. 7, fig. 1.

IGF868 = PARALECTOTYPE. Skull and complete jaw; it keeps the left part of the facial region with all the teeth, excepted I3, part of the right maxillary, with P2 and C. The jaw is completely preserved, only lightly compressed transversally. Le Strette al Tasso, Upper Valdarno. Purchased in 1882 from the farmer Pacciani. Late Villafranchian.

Canis arnensis Del Campana, 1913, p. 230, pl. 22, figs. 1a, 1b, 1c, table of measurements, specimen n. 3.

IGF869 = PARALECTOTYPE. Skull deformed and lacking of zygomatic arches, with nearly complete jaw; the teeth are not worn, probably the specimen in question is young. Il Tasso, Upper Valdarno. Purchased from the farmer Pacciani in 1882.

Canis arnensis Del Campana, 1913, p. 230, pl. 20, fig. 1, pl. 21, fig. 1.

Canis arnensis; Torre, 1967, p. 134, pl. 5, fig. 6, pl. 6, figs. 1a, 1b, 1c, 1d.

Note = other pieces presumably belong to the same specimen:

IGF 11793 = pelvis and incomplete backbone.

IGF 11794 = right radius, carpus, metacarpals, II, IV, V phalanges.

IGF 11795 = right tibia (distal fragment), calcaneus and astragalus.

IGF 11796 = right II, III, IV and V metatarsals, proximal and middle phalanges of the fourth digit.

IGF 11797 = right humerus, ulna and proximal fragment of radius.

IGF 11798 = left metacarpals and first phalanx.

IGF 11799 = left femur (distal fragment).

IGF876 = PARALECTOTYPE. Jaw and fragment of palate with the left incisors, P2, P3. The ascending rami of the jaw are lacking and there is a strong transverse deformation. Il Tasso, Upper Valdarno. Purchased from the farmer Pacciani in 1882. Late Villafranchian.

Canis arnensis Del campana, 1913, p. 230, pl. 22, fig. 4, table of measurements, specimen n. 6.

Canis arnensis; Torre, 1967; p. 134.

IGF877 = PARALECTOTYPE. Incomplete skull and jaw. The skull is restricted to the anterior region with left C, P3, P4, M1 and right P2, P3, P4, M1, M2. The jaw is lacking of the anterior region, until P1, and of a part of the right ascending ramus. Il Tasso, Upper Valdarno. Purchased in 1882 from the farmer Pacciani. Late Villafranchian.

Canis arnensis Del Campana, 1913, p. 230, table of measurements, specimen n. 5.

Canis arnensis; Torre, 1967, p. 134.

IGF878 = PARALECTOTYPE. Incomplete skull and jaw. The skull consists merely of the braincase, strongly compressed, with a portion of left maxillary complete of the two molar teeth. The jaw lacks the anterior part. Le Strette al Tasso, Upper Valdarno. Purchased from the farmer Pacciani in 1882. Late Villafranchian.

Canis arnensis Del Campana, 1913, p. 230, table of measur, specimen n. 4.

Canis arnensis; Torre, 1967, p. 134.

IGF887 = PARALECTOTYPE. Left and incomplete maxillary and jaw. The maxillary preservs P2, P3, M1, M2; the jaw lacks the ascending ramus, the anterior part and, therefore, the incisors and the canines. Il Tasso, Upper Valdarno. Purchased from the farmer Pacciani, 1882. Late Villafranchian.

Canis arnensis Del Campana, 1913, p. 231, pl. 22, figs. 3a, 3b, 3c, table of measurements, n. 7.

Canis arnensis; Torre, 1967, p. 134.

In reference to all the types of *Canis armensis* above mentioned DEL CAMPANA (1913) writes: «I resti... in origine si trovavano inclusi in varie zolle di argilla turchina sabbiosa» (p. 231) (¹).

6) *Canis alopecoides* Del Campana 1913 (ex Major in schedis)

IGF 12110 = HOLOTYPE. Small fragment of right maxillary with well preserved M1 and M2. Collected in 1880 by Mr. E. Berigli, at the locality «Il Tasso», Upper Valdarno. Late Villafranchian.

Canis alopecoides Del Campana, 1913, p. 246, pl. 22; fig. 6.

Vulpes alopecoides; Viret, 1954, p. 35.

The author of the species *Canis alopecoides* is to be believed DEL CAMPANA, in accordance with the article 9(5) of the International Code of Zoological Nomenclature, and not FORSYTH MAJOR as usually quoted in the literature. MAJOR in fact did not publish nor describe or figure anything under this binomial. About the maxillary fragment of Il Tasso (IGF 12110) DEL CAMPANA (1913) writes: «Questa specie non è mai stata oggetto di una descrizione da parte del Forsyth Major. ...Il Major nelle sue frequenti fermate presso il Museo di Geologia e Paleontologia di Firenze, vide il fossile in questione e riconosciutolo da un sommario esame come specie affatto distinta, lo pose sotto il nome nuovo di *Canis alopecoides*.» (²).

This new specific name however did not acquire any validity until the species description made by DEL CAMPANA (1913), who so becomes the author of this species.

According to the rules of the International Code of Zoological Nomenclature (1964), the actual exact denomination is: *Vulpes alopecoides* (Del Campana 1913, ex Major in schedis).

(¹) [«The pieces... originally were included in several clods of blue sandy clay» (p. 231).]

(²) [«This species has never been described by Forsyth Major... Major during his frequent visits to the Museum of Geology and Paleontology of Florence saw the specimen in question and recognized it as a new different species, from a summary examination, placing this specimen under the new binomial: *Canis alopecoides*.»]

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