

Short scientific note

On the type specimen of *Otiorhynchus (Dodecastichus) ambrosii* Bertolini, with a catalogue of *Dodecastichus* (Coleoptera: Curculionidae)

Enzo COLONNELLI^{1,*}, Roberto CASALINI²

¹ Via delle Giunchiglie 56, I-00172 Rome, Italy - ecolonnelli@yahoo.it

² Museo Civico di Zoologia - Via Ulisse Aldrovandi 18, I-00195 Rome, Italy - casalini.roberto@gmail.com

* Corresponding author

Abstract

Study of the type specimen of *Otiorhynchus ambrosii* Bertolini, 1893 allowed to reinstate the synonymy: *Dodecastichus mastix* (Olivier, 1807) [= *Otiorhynchus (Dodecastichus) ambrosii* Bertolini, 1893; **syn. n.**]. As a consequence, the following synonymy is also established: *Dodecastichus consentaneus* (Boheman, 1842) [= *Otiorhynchus (Dodecastichus) consentaneus alticola* A. Solari & F. Solari, 1915; **syn. n.**]. A revised list of *Dodecastichus* Stierlin, 1861 is also drawn up to correct some errors in the latest 2013 catalogue, to include the revised synonymies above, and additional data on all the species of the genus. The alternative original spelling *Dodecastichus oligostictus* (J. Müller, 1946) is selected over *Dodecastichus oligolepis* (J. Müller, 1946), both used in the description of this species.

Key words: Coleoptera, Curculionidae, *Otiorhynchus*, *Dodecastichus*, new synonymies, catalogue.

Alonso-Zarazaga (2013: 77) in the recently published volume 8 of the Catalogue of Palaearctic Coleoptera wrote that: “*Otiorhynchus ambrosii* Bertolini, 1893 is currently placed in synonymy of *Dodecastichus dolomitae alticola* (A. Solari & F. Solari, 1915)”, and accordingly selected the former name as the valid one for this taxon.

Otiorhynchus (Dodecastichus) ambrosii Bertolini, 1893 was described upon a single specimen from Sella (Trentino, northern Italy) by Bertolini (1893), and was then listed as a valid species by the same author in his checklists of Italian beetles (Bertolini 1899, 1904). This species was unknown by Reitter (1914), and by both the Italian authors Luigioni (1929) and Porta (1932: 16 and 455), who drew up respectively the former a checklist of Italian Coleoptera, and the latter keys to Italian beetle species. Luigioni (1929: 853) placed with a question mark *O. ambrosii* as a synonym of *Otiorhynchus (Dodecastichus) mastix* (Olivier, 1807), followed few years later by Porta (1932: 16) who in the addenda on page 455 agreed with the synonymy between *O. ambrosii* and *O. mastix* proposed by Lona (1931) during the printing process of the Porta volume. Lona (1931) based his synonymy on the study of the type specimen of *O. ambrosii*. The same synonymy is of course reported as such in the Junk catalogue by Lona himself (1936).

Subsequently, Angelov (1975), after examining a non-type male specimen from “Italy” surely wrongly identi-

fied as *O. ambrosii*, tentatively considered *O. ambrosii* as a senior synonym of *O. consentaneus alticola* (A. Solari & F. Solari, 1915) by writing: “Das in Frage kommende Exemplar hat nichts mit *mastix* zu tun, da sie aber nicht der Typus ist, kann es nicht entschieden werden, wo sie zu beziehen ist” (Angelov 1975: 54). Indeed, he still used the name *alticola* as the valid one for this taxon, by him considered a subspecies of *O. dolomitae* Stierlin, 1862. The Angelov uncertain synonymy quoted by Alonso-Zarazaga (2013) was accepted by none of the Italian authors who subsequently drew up checklists of Italian weevils (Abbazzi e al. 1995, Abbazzi & Osella 1992, Colonnelli 2003, Abbazzi & Maggini 2009). To *Dodecastichus* was rightly given full generic status by Magnano (1998).

To definitively solve the question we studied the single type of *Dodecastichus ambrosii* preserved in the Museo delle Scienze di Trento, Italy. It is an immature female pinned through the right elytron (figs 1-2), bearing a white handwritten label “Sella”, a double bordered red label “23”, and another handwritten white label “Ambrosii Bert” (fig. 3). It is, as already ascertained by Lona (1931) a female of the widespread and variable *D. mastix*, and thus the following synonymy is here again established: *Dodecastichus mastix* (Olivier, 1807) [= *Otiorhynchus (Dodecastichus) ambrosii* Bertolini, 1893, **syn. rev.**].

At this point, arises the question of the taxonomic status of *Dodecastichus consentaneus alticola* (A. Solari & F.

Solari, 1915) from the upper level of the Abruzzes mountains (Di Marco & Osella 2001). It is sure that *D. dolomitae* has nothing to do with *D. alticola*, due to the posterior tibiae of the latter not strongly granulate in males, male pigidium lacking of two lateral tufts of centripetal setae, elytra devoid of obvious patches of rather dense setae and less convex in females. All those features are shared with *D. consentaneus*, and we agree with Di Marco & Osella (2001), who, after examining 1537 specimens of *D. consentaneus* Boheman, 1842 from the central Apennines, considered *alticola* just an alpine form of the above species, and thus a synonym of it.

As a result, the following synonymy is here established: *Dodecastichus consentaneus* (Boheman, 1842) [= *Otiorrhynchus* (*Dodecastichus*) *consentaneus alticola* A. Solari & F. Solari, 1915; **syn. n.**].

Although an in-depth studium of the Italian forms of *Dodecastichus* is still to be made with the aid of molecular techniques, it should be noted that the populations of *D. consentaneus* living south of Apennines probably differ at subspecific level from the ones occurring in the Balkans. The same happens for the Apennine forms of *D. mastix*, which are all more strongly sculptured than the Alpine and Balcanic ones of the same species. As a matter of fact, it is sometime rather difficult to separate the both variable *D. consentaneus* and *D. mastix* found in peninsular Italy only considering the sculpture of their dorsal surface, although the female elytra somewhat mucronate and the feebly granulate male posterior tibiae of *D. consentaneus* versus the broadly acute female elytra and strongly granulate posterior male tibiae of *D. mastix* let to recognise these species.

To correct some errors by Magnano & Alonso-Zarazaga (2013), and to include the revised synonymies above, we catalogue below the hitherto known *Dodecastichus* species, all from western Palaearctic, with the format used by our late friend Luigi Magnano who was drawing up a world list of Otiorrhynchini, and which in part follows the Colonnelli (2004) catalogue of Ceutorhynchinae of the world in the including of unavailable names, either because being infrasubspecific or incorrect spellings. Abbreviations are the same as in the catalogue of Palaearctic Coleoptera (Magnano & Alonso-Zarazaga 2013). Here we select the alternative original spelling *Dodecastichus oligostictus* (Müller 1946: 119) over *Dodecastichus oligolepis* (Müller 1946: 120).

Dodecastichus Stierlin, 1861

Otiorrhynchus (*Dodecastichus*) Stierlin, 1861: 18
Otiorrhynchus (*Dodecastichus*) [incorrect subsequent spelling]; Marseul, 1872: 109
Otiorrhynchus (*Dodecastichus*) [incorrect subsequent spelling]; J. Müller, 1916: 104

TYPE SPECIES: *Otiorrhynchus pulverulentus* Germar, 1824 by original designation.

atripes (Apfelbeck, 1918)

Otiorrhynchus (*Dodecastichus*) *atripes* Apfelbeck, 1918: 168

Balkans: AL BH ME SB

TYPE LOCALITY. “Prokletje, Zljetje” (Albania, Montenegro).

REPRODUCTION. Bisexual.

aurosignatus (Apfelbeck, 1889)

Otiorrhynchus (*Dodecastichus*) *geniculatus* var. *aurosignatus* Apfelbeck, 1889: 72

Otiorrhynchus (*Dodecastichus*) *aurosignatus* ab. *obscuripes* [infrasubspecific name] Apfelbeck, 1895: 653

Otiorrhynchus (*Dodecastichus*) *aurosignatus* var. *vlasuljensis* Apfelbeck, 1894b: 791

Otiorrhynchus (*Dodecastichus*) *aurosignatus* var. *rhodopensis* Apfelbeck, 1894a: 219

Otiorrhynchus (*Dodecastichus*) *aurosignatus crassirostris* Apfelbeck, 1907: 35, nomen nudum

Otiorrhynchus (*Dodecastichus*) *aurosignatus* var. *mokragorensis* Apfelbeck, 1928: 76

Otiorrhynchus (*Dodecastichus*) *aurosignatus* var. *vlasuliensis* [incorrect subsequent spelling]: Kovačević, 1971: 6

Otiorrhynchus (*Dodecastichus*) *aurosignatus* ab. *opscuribes* [incorrect subsequent spelling]: Kovačević, 1971: 6

Otiorrhynchus (*Dodecastichus*) *aurosignatus* var. *vlassuljensis* [incorrect subsequent spelling]: Angelov, 1975: 50

Balkans: BH BU CR MC ME SB

TYPE LOCALITY. “Vučja Luka” (Bosnia and Herzegovina).

REPRODUCTION. Bisexual.

brevipes (Apfelbeck, 1894)

brevipes brevipes (Apfelbeck, 1894)

Otiorrhynchus (*Dodecastichus*) *turgidus* var. *brevipes* Apfelbeck, 1894b: 790

Otiorrhynchus (*Dodecastichus*) *turgidus* var. *bilekensis* Apfelbeck, 1894b: 790

Otiorrhynchus (*Dodecastichus*) *sinjanus* Penecke, 1907: 17

Otiorrhynchus (*Dodecastichus*) *brevipes* [incorrect subsequent spelling]; Angelov, 1975: 43

Balkans: AL AU BH CR ME

TYPE LOCALITY. «Hercegovina» (Bosnia and Herzegovina).

REPRODUCTION. Bisexual

brevipes tarentinus (A. Solari & F. Solari, 1915)

Otiorrhynchus (*Dodecastichus*) *turgidus* var. *tarentinus* A. Solari & F. Solari, 1915: 288

Italy: Its

TYPE LOCALITY. “Grottaglie” (southeastern Italy).

REPRODUCTION. Bisexual.

cirrogaster (Apfelbeck, 1928)

Otiorrhynchus (*Dodecastichus*) *cirrogaster* Apfelbeck, 1928: 75

Macedonia: MC

TYPE LOCALITY. “Šar planina” (Macedonia).

REPRODUCTION. Bisexual.

consentaneus (Boheman, 1842)

Otiorrhynchus consentaneus Boheman, 1842: 278

Otiorrhynchus (Dodecastichus) inflatus ab. *florentinus* Apfelbeck, 1894b: 790

Otiorrhynchus (Dodecastichus) consentaneus var. *alticola* A. Solari & F. Solari, 1915: 283; **syn. rev.**

Otiorrhynchus (Dodecastichus) consentaneus var. *dimorphus* A. Solari & F. Solari, 1915: 283

Otiorrhynchus (Dodecastichus) consentaneus var. *latialis* A. Solari & F. Solari, 1915: 283

Otiorrhynchus (Dodecastichus) consentaneus ssp. *troglovensis* Apfelbeck, 1922c: 45

Dodecastichus consentaneus ssp. *pentricus* Di Marco & Osella, 2001: 17

Southeastern Europe: AU BH CR IT ME RO SL

TYPE LOCALITY. “Dalmatia” (Croatia).

REPRODUCTION. Bisexual.

contractus (Stierlin, 1861)

Otiorrhynchus (Dodecastichus) contractus Stierlin, 1861: 32

Otiorrhynchus (Dodecastichus) moldovensis Apfelbeck, 1894b: 793

Otiorrhynchus moldoviensis [incorrect subsequent spelling]; Petri, 1912: 36

Balkans: HU MD RO

TYPE LOCALITY. “Siebenbürgen” (Romania).

REPRODUCTION. Bisexual.

corallipes (Stierlin, 1890)

Otiorrhynchus (Dodecastichus) corallipes Stierlin, 1890: 163

Balkans: BH ME RO SB

TYPE LOCALITY. “Visočica” (Bosnia and Herzegovina).

REPRODUCTION. Bisexual.

dalmatinus (Gyllenhal, 1834)

Otiorrhynchus dalmatinus Gyllenhal, 1834: 559

Pachygaster dalmatinus Dejean, 1821: 90, nomen nudum

Otiorrhynchus (Dodecastichus) lauri Stierlin, 1861: 35

Otiorrhynchus (Dodecastichus) dalmatinus var. *velezianus* Apfelbeck, 1894b: 791

Otiorrhynchus (Dodecastichus) pulverulentus var. *orni* Apfelbeck, 1894b: 790

Otiorrhynchus (Dodecastichus) dalmatinus var. *maculosus* A. Solari & F. Solari, 1915: 289

Otiorrhynchus (Dodecastichus) dalmatinus var. *rubripes* A. Solari & F. Solari, 1915: 289

Otiorrhynchus (Dodecastichus) sutomorensis Apfelbeck, 1920: 16

Amphiadriatic: AU BH CR IT ME SB

TYPE LOCALITY. “Dalmatia” (Croatia).

REPRODUCTION. Bisexual.

dolomitae (Stierlin, 1862)

dolomitae dolomitae (Stierlin, 1862)

Otiorrhynchus (Dodecastichus) dolomitae Stierlin, 1862: 368

Northern Balkans, Austria, northern Italy: AU BH CR IT

TYPE LOCALITY. “Tyrol” (Austria, Italy).

REPRODUCTION. Bisexual.

dolomitae crivoscianus (Apfelbeck, 1894)

Otiorrhynchus (Dodecastichus) consentaneus var. *crivoscianus* Apfelbeck, 1894b: 791

Otiorrhynchus (Dodecastichus) dolichocephalus Apfelbeck, 1922: 46

Otiorrhynchus (Dodecastichus) crivoscianus subsp. *metkovicensis* Apfelbeck, 1922: 46

Otiorrhynchus (Dodecastichus) dolichocephalus [incorrect subsequent spelling]: Angelov, 1975: 54

Balkans: AL BH CR ME

TYPE LOCALITY. “southern Dalmatia” (Croatia).

REPRODUCTION. Bisexual.

dolomitae dryadis (Apfelbeck, 1894)

Otiorrhynchus (Dodecastichus) consentaneus var. *dryadis* Apfelbeck, 1894a: 218

Balkans: BH ME

TYPE LOCALITY. “Sabrani near Volujka” (Bosnia and Herzegovina).

REPRODUCTION. Bisexual.

ephialtes (Apfelbeck, 1911)

Otiorrhynchus (Dodecastichus) ephialtes Apfelbeck, 1911: 220

Balkans: BH CR

TYPE LOCALITY. “Troglav” (Bosnia and Herzegovina).

REPRODUCTION. Bisexual.

geniculatus (Germar, 1817)

Curculio geniculatus Germar, 1817: 240

Otiorrhynchus irroratus Dejean, 1835: 268, nomen nudum

Otiorrhynchus (Dodecastichus) pulverulentus var. *conspurcatus* Stierlin, 1883: 422

Otiorrhynchus (Dodecastichus) geniculatus var. *gangelbaueri* Apfelbeck, 1889: 72 [incorrect original spelling to be corrected in *ganglbaueri*] not *Otiorrhynchus ganglbaueri* Stierlin, 1888

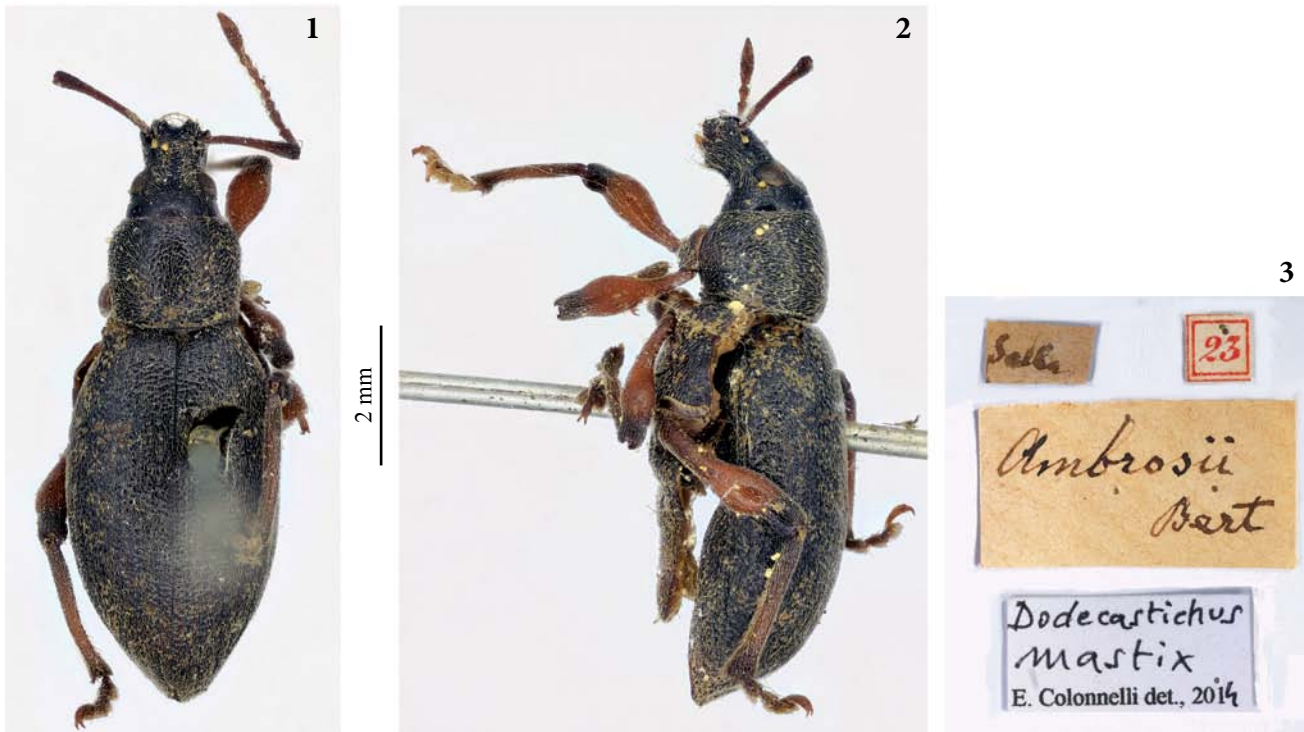
Otiorrhynchus (Dodecastichus) geniculatus var. *eppelsheimi* Apfelbeck, 1889: 72

Otiorrhynchus (Dodecastichus) geniculatus var. *herbiphagus* Apfelbeck, 1889: 73

Otiorrhynchus (Dodecastichus) geniculatus ab. *capellae* [infrasubspecific name] Apfelbeck, 1895: 640

Otiorrhynchus (Dodecastichus) eppelsheimi var. *herbiphagus* [incorrect subsequent spelling]; Apfelbeck, 1899a: 775

Otiorrhynchus (Dodecastichus) geniculatus var. *szoerenyensis* Csiki, 1913: 16



Figs 1-3 – 1, habitus of *Otiorrhynchus (Dodecastichus) ambrosii* Bertolini, 1893, holotype in dorsal view; 2, idem in lateral view; 3, labels borne by the holotype specimen *O. (D.) ambrosii*.

Otiorrhynchus (Dodecastichus) geniculatus var. *aurotomentosus* Csiki, 1913: 16

Otiorrhynchus (Dodecastichus) geniculatus ab. *capelle* [incorrect subsequent spelling]; Angelov, 1975: 50

Central-eastern Europe: AL AU BH BU CR CZ GE HU IT PL RO SB SK SZ UK

TYPE LOCALITY. “Krain” (Slovenia).

REPRODUCTION. Bisexual.

heydenii (Stierlin, 1861)

Otiorrhynchus (Dodecastichus) heydenii Stierlin, 1861: 39

Central-eastern Europe: AL BH CR HU IT ME RO SI
TYPE LOCALITY. “Dalmatien, Hungary” (Bosnia and Herzegovina, Hungary).

REPRODUCTION. Bisexual.

inflatoides (Reitter, 1913)

Otiorrhynchus (Dodecastichus) inflatoides Reitter, 1913: 29

Croatia: CR

TYPE LOCALITY. “Lika, Jasikovač bei Gospič” (Croatia).

REPRODUCTION. Bisexual.

inflatus (Gyllenhal, 1834)

Otiorrhynchus inflatus Gyllenhal, 1834: 566

Otiorrhynchus salebrosus Boheman, 1842: 299

Otiorrhynchus (Dodecastichus) inflatus var. *picipennis* Stierlin, 1883: 421

Eastern Europe: AU BH BU CR CZ GE HU IT HU PL RO SB SK SL UK

TYPE LOCALITY. “Austria, Illyria” (Austria, the Balkans).

REPRODUCTION. Bisexual.

mastix (Olivier, 1807)

Curculio mastix Olivier, 1807: 376

Curculio pruinosis Germar, 1817: 237

Curculio scabricollis Germar, 1817: 239

Curculio dulcis Germar, 1817: 238

Curculio turgidus Germar, 1817: 236

Pachygaster pruinosis var. *angusticollis* Dejean, 1821: 90, nomen nudum

Otiorrhynchus angusticollis Dejean, 1835: 282, nomen nudum

Otiorrhynchus (Dodecastichus) ambrosii Bertolini, 1893: 221; **syn. n.**

Otiorrhynchus (Dodecastichus) turgidus ab. *velebiticus* [infraspecific name] Apfelbeck, 1894b: 790 not *Otiorrhynchus velebiticus* Stierlin, 1893

Otiorrhynchus (Dodecastichus) reiseri Apfelbeck, 1894b: 787

Otiorrhynchus (Dodecastichus) vranensis Apfelbeck, 1894b: 218

Otiorrhynchus (Dodecastichus) mastix var. *nigrociliatus* Reitter, 1913: 26

Otiorrhynchus (Dodecastichus) mastix var. *scabrior* Reitter, 1913: 26

Otiorrhynchus (Dodecastichus) mastix var. *perlongus* A. Solari & F. Solari, 1915: 287

- Otiorrhynchus (Dodecastichus) turgidus* ssp. *dinaricus* J. Müller, 1916: 106 not *Otiorrhynchus dinaricus* Apfelbeck, 1898
Otiorrhynchus (Dodecastichus) turgidus var. *muellerianus* Winkler, 1932: 1403, replacement name for *O. dinaricus* J. Müller, 1916
Otiorrhynchus (Dodecastichus) turgidus ab. *velebiticola* [unnecessary replacement name for *O. velebiticus* Apfelbeck] Winkler, 1932: 1403
Otiorrhynchus (Dodecastichus) turgidus [incorrect subsequent spelling] ; Kovačević, 1971: 6

Central-eastern Europe: AL AU BH BU CR CZ GE HU IT LT MC ME PL RO SB SK SL SV(i) SZ UK
 TYPE LOCALITY. «Allemagne, Genève» (Germany, Switzerland).
 REPRODUCTION. Bisexual.

montissancti (J. Müller, 1946)

Otiorrhynchus (Dodecastichus) montissancti J. Müller, 1946: 118

Croatia: CR
 TYPE LOCALITY. «Velebit» (Croatia).
 REPRODUCTION. Bisexual.

obsoletus (Stierlin, 1861)

- Otiorrhynchus (Dodecastichus) obsoletus* Stierlin, 1861: 31
Otiorrhynchus (Dodecastichus) pulverulentus var. *hopffgarteni* Stierlin, 1883: 422
Otiorrhynchus (Dodecastichus) obsoletus var. *vicinus* Apfelbeck, 1894a: 220
Otiorrhynchus (Dodecastichus) speiseri Apfelbeck, 1894a: 219
Otiorrhynchus (Dodecastichus) obsoletus var. *aethiops* Apfelbeck, 1894: 791
Otiorrhynchus (Dodecastichus) bulgaricus Apfelbeck, 1894a: 791
Otiorrhynchus (Dodecastichus) obsoletus var. *versipellis* Apfelbeck, 1894a: 791
Otiorrhynchus (Dodecastichus) pulverulentus var. *hopfgarteni* [incorrect subsequent spelling] ; Angelov, 1975: 51

Southeastern Europe: AU BH BU CR HU IT MD ME PL RO SL SB
 TYPE LOCALITY. «Krain» (Slovenia).
 REPRODUCTION. Bisexual.

oligostictus (J. Müller, 1946)

- Otiorrhynchus (Dodecastichus) oligostictus* J. Müller, 1946: 119, alternative original spelling, here selected
Otiorrhynchus (Dodecastichus) oligolepis J. Müller, 1946: 120, alternative original spelling, here rejected

Albania: AL
 TYPE LOCALITY. «Okol di Boga» (Albania).
 REPRODUCTION. Bisexual.

ovoideus (Reitter, 1913)

- Otiorrhynchus (Dodecastichus) heydeni* var. *ovoideus* Reitter, 1913: 26

Italy: IT

TYPE LOCALITY. «Monte Gargano» (southern Italy)
 REPRODUCTION. Bisexual.

pulverulentus (Germar, 1824)

- Otiorrhynchus adumbratus* Dejean, 1833: 268, nomen nudum
Otiorrhynchus pulverulentus Germar, 1824: 352
Otiorrhynchus interstitialis Germar, 1824: 353
Otiorrhynchus periscelis Gyllenhal, 1834: 570
Otiorrhynchus pulverulentus var. *geniculatus* Villa & Villa, 1844: 86, nomen nudum
Otiorrhynchus pulverulenti [incorrect subsequent spelling] ; Taschenberg, 1869: 148
Otiorrhynchus (Dodecastichus) pulverulentus var. *rumicis* Apfelbeck, 1895: 642
Otiorrhynchus (Dodecastichus) pulverulentus var. *adumbratus* Stierlin, 1883: 422
Otiorrhynchus (Dodecastichus) consentaneus var. *preslicensis* Apfelbeck, 1894b: 791
Otiorrhynchus (Dodecastichus) pulverulentus bulgaricus Apfelbeck, 1932: 153, nomen nudum
Otiorrhynchus purvelulentus [incorrect subsequent spelling] ; Knutelski, 1993: 104

East Europe: AT BA BG CZ HR HU ITn PL RO UA SQ
 TYPE LOCALITY. «Carniolia» (Slovenia).
 REPRODUCTION. Bisexual.

Acknowledgements – We gratefully thank Mauro Gobbi of the Museo delle Scienze of Trento, Italy for the loan of the type specimen of *Otiorrhynchus ambrosii*, and Leonardo Latella of the Museo Civico di Storia Naturale di Verona, Italy for hand delivering the above specimen. Maurizio Gigli, Rome, Italy is thanked for taking pictures of the type of *O. ambrosii*.

References

- Abbazzi P., Colonnelli E., Masutti L., Osella G. 1995. Coleoptera Polyphaga XVI (Curculionoidea). In: Minelli A., Ruffo S., La Posta S. (eds). Checklist delle specie della fauna italiana, 61. Calderini, Bologna, 68 pp.
 Abbazzi P., Maggini L. 2009. Elenco sistematico-faunistico dei Curculionoidea italiani, Scolytidae e Platypodidae esclusi (Insecta, Coleoptera). *Aldrovandia*, 5: 29–216.
 Abbazzi P., Osella G. 1992. Elenco sistematico-faunistico degli Anthribidae, Rhinomaceridae, Atelabidae, Apionidae, Brentidae, Curculionidae italiani (Insecta, Coleoptera: Curculionoidea). I parte. *Redia*, 75(2): 267–414.
 Alonso-Zarazaga M.Á. 2013. Curculionidae Entiminae Otiorrhynchini. Priority (pp. 77-78). In: Löbl I., Smetana A. (eds). Catalogue of Palaearctic Coleoptera. Volume 8. Curculionoidea II. Brill, Leiden-Boston, 700 pp.
 Angelov P.A. 1975. Eine neue Bearbeitung der *Otiorrhynchus (Dodecastichus)*-Arten (Coleoptera, Curculionidae). *Acta Zoologica Bulgarica*, 2: 38–57.
 Apfelbeck V. 1889. Nove vrste i varijetete *Otiorrhynchus*-a iz južne Bosne i Hercegovine. *Otiorrhynchorum species et varietates novae e Bosnia meridionali et Hercegovina*. Glasnik zemaljskog muzeja u Bosni i Hercegovini, 1: 68–74.
 Apfelbeck V. 1894a. Rezultati koleopteroloskog ispitivanja iz alpinske regije južno-bosanskih planina. *Enumeratio coleop-*

- terorum in alpium Bosniae meridionalis regione alpina collectorum. Glasnik zemaljskog muzeja u Bosni i Hercegovini, 6(2): 209–223.
- Apfelbeck V. 1894b. Vrste varijetete i odlike rilastikh kukatsa iz roda „*Otiorrhynchus*“ (podrazreda „*Dodecastichus* Stierlin“). Glasnik Zemaljskog Muzeja u Bosni i Hercegovini, 6: 785–794.
- Apfelbeck V. 1895. Monographische Bearbeitung der zwölfstreifigen *Otiorrhynchus*-Arten (*Dodecastichus* Stirl.) (Mit zwei Tafeln). Wissenschaftliche Mittheilungen aus Bosnien und der Hercegovina, 3: 626–656 + 2 pl.
- Apfelbeck V. 1899. Zur Kenntniss der paläarktischen Curculioniden. Synonymische und zoogeographische Beiträge nebst Beschreibungen neuer Arten von der Balkanhalbinsel. I. *Otiorrhynchini* et *Brachyderini*. Wissenschaftliche Mittheilungen aus Bosnien und der Hercegovina, 6: 773–816.
- Apfelbeck V. 1907. Bericht über der im Jahre 1906 durchgeführte zoologische Reise nach Ost-Albanien in das Gebiet des Schar Dagh. Jahresbericht des Naturwissenschaftlichen Orientvereins, 12: 31–36.
- Apfelbeck V. 1911. Contributions ad Coleopterorum faunam peninsulae balcanicae. Pars II. Prinosi posnavanu faune koleoptera balkanskog poluostrova. II: Dio. Glasnik Zemaljskog Muzeja u Bosni i Hercegovini, 23(1/2): 209–224.
- Apfelbeck V. 1918. Koleopteren aus dem nordalbanisch-montenegrinischen Grenzgebiete (Ergebnisse einer von der Kaiserl. Akademie der Wissenschaften in Wien veranlaßten naturwissenschaftlichen Forschungsreise in Nordabtanien). Sitzungsberichte der Mathematisch-naturwissenschaftliche Klasse der Akademie der Wissenschaften in Wien, Abteilung I, 127(1/10): 159–176.
- Apfelbeck V. 1920. K poznavanju roda *Otiorrhynchus* Germ. Ispravci, nadopune i opaske Reitterovim: “Bestimmungstabellen der europäischen Coleopteren” Heft 66, 67, 69 i 70, koji se odnose na rd *Otiorrhynchus* Germ. Ad cognitionem generis *Otiorrhynchus* Germar. Emendationes, supplementa atque adnotationes ad Dom. E. Reitteri: “Bestimmungstabellen der europ. Coleopteren”, genus *Otiorrhynchus* Germ. pertinentia. Glasnik Zemaljskog Muzeja u Bosni i Hercegovini, 32: 13–28.
- Apfelbeck V. 1922. Sur les valeurs spécifiques chez les parents du *Otiorrhynchus consentaneus* Boh. Une contribution aux changements de forme produits par l’influence de la region alpine chez les *Otiorrhynchus*. O specifénim vrijednostima kod srodnika *Otiorrhynchus consentaneus* Boh. Prilog za promjenu oblika, izazvanih kod *Otiorrhynchus*-a utjecajem alpskoga region. Glasnik Zemaljskog Muzeja u Bosni i Hercegovini, 33/34[1921/1922]: 43–47.
- Apfelbeck V. 1928. Fauna insectorum balcanica IX. Ad cognitionem Curculionidarum (Col.). Mit 4 Bildern im Texte. Glasnik Zemaljskog muzeja u Bosni i Hercegovini, 40(1): 75–86.
- Apfelbeck V. 1932. Beiträge zur Kenntnis der bulgarischen Curculioniden (Col.). I. Mitteilungen aus den Königlichen Naturwissenschaftlichen Instituten in Sofia, 5: 153–161.
- Bertolini S. de. 1893. Contribuzione alla fauna trentina dei coleotteri (Continuazione: vedi Bullettino, anno XXIV. p. 346–368.). Bullettino della Società entomologica italiana, 25(3): 221–247.
- Bertolini S. de. 1899b. Catalogo dei coleotteri d’Italia. Trento, 145 pp.
- Bertolini S. de. 1904. Catalogo dei coleotteri d’Italia. Siena, 145 p.
- Boheman C.H. 1842. [descriptions]. In: Schoenherr C.J.: Genera et species curculionidum, cum synonymia hujus familiae. Species novae aut hactenus minus cognitae, descriptionibus a Dom. L. Gyllenhal, C.H. Boheman, O.J. Fahraeus, et entomologiis aliis illustratae. Tomus septimus. Pars prima. Supplementum continens. Roret, Paris; Fleischer, Lipsiae, [II] + 479 pp.
- Colonnelli E. 2003. A revised checklist of Italian Curculionoidea (Coleoptera). Zootaxa, (337): 1–142.
- Colonnelli E. 2004. Catalogue of Ceutorhynchinae of the world, with a key to genera (Insecta: Coleoptera: Curculionidae). Argania editio, Barcelona, 124 pp.
- Csiki E. 1913. Zur Kenntnis einiger *Otiorrhynchus*. Wiener Entomologische Zeitung, 32(1): 16.
- Dejean P.F.M.A. 1821. Catalogue de la collection de coléoptères de M. le Baron Dejean. Crevot, Paris, [2] + VIII + 136 pp.
- Dejean, P. F. M. A. 1833. Catalogue des coléoptères de la collection de M. le Comte Dejean. Méquignon-Marvis & fils, Paris, 443 pp.
- Dejean P.F.M.A. 1835. Catalogue des coléoptères de la collection de M. le Comte Dejean. Méquignon-Marvis & fils, Paris, IV: 257–360.
- Di Marco C., Osella G. 2001. Gli *Otiorrhynchus* Germar, 1824 ed i generi ad esso strettamente affini: *Dodecastichus* Stierlin, 1861, *Limatogaster* Apfelbeck, 1898 e *Cirorrhynchus* [sic!] Apfelbeck, 1899 dell’Appennino abruzzese-molisano (Coleoptera, Curculionidae). Memorie del Museo Civico di Storia Naturale di Verona (II serie). Sezione Scienze della Vita, (15): 1–116.
- Germar E.F. 1817. Reise nach Dalmatien und in das Gebiet von Ragusa. Mit 9 illum. Kupfern und 2 Charten. F.A. Brockhaus, Leipzig und Altenburg, XII + 523 pp + 11 pl.
- Germar E.F. 1824. Insectorum species novae aut minus cognitae, descriptionibus illustratae. Vol. I. Coleoptera. Hendel & Sons, Halle, XXIV + 624 pp. + 2 pl.
- Gyllenhal L. 1834. [descriptions]. In: C. J. Schoenherr. Genera et species curculionidum, cum synonymia hujus familiae. Species novae aut hactenus minus cognitae, descriptionibus a Dom. Leonardo Gyllenhal, C. H. Boheman, et entomologis aliis illustratae. Tomus secundus. Pars secunda. Roret, Paris; Fleischer, Lipsiae, pp. 329–669 [+ 3 pp., corrigenda].
- Knutelski S. 1993. Ryjkowce (Coleoptera: Curculionidae) Tatr Polskich: I. Zgrupowania ryjkowców charakterystycznych środowisk Tatr Zachodnich. Zeszyty Naukowe Uniwersytetu Jagiellońskiego, Prace Zoologiczne, 38(1044): 73–179.
- Kovačević Ž. 1971. *Otiorrhynchus*-vrste i njihovo rasprostranjenje u Jugoslaviji (Coleoptera-Curculionidae). Acta Instituti protectionis plantarum facultatis agronomicae. Zagreb, 103 pp.
- Lona C. 1931. Studi sugli *Otiorrhynchus*. Bollettino della Società Entomologica Italiana, 63(10): 172–175.
- Lona C. 1936. Coleopterorum Catalogus auspicii et auxilio W. Junk editus a S. Schenckling. Pars 148. Curculionidae: *Otiorrhynchinae* I. Junk, ‘s-Gravenhage, pp. 1–226.
- Magnano L. 1998a. Notes on the *Otiorrhynchus* Germar, 1824 complex (Coleoptera: Curculionidae) (pp. 51–80). In: Colonnelli E., Louw S., Osella G. (eds). Taxonomy, ecology and distribution of Curculionoidea (Coleoptera: Polyphaga). Proceedings of a Symposium (28 August, 1996, Florence, Italy). XX International Congress of Entomology. Atti del Museo Regionale di Scienze Naturali, Torino, 294 pp.
- Magnano[†] L., Alonso-Zarazaga M.Á. 2013. Tribe *Otiorrhynchini* Schoenherr, 1826 (pp. 302–347). In: Löbl I., Smetana A. (eds). Catalogue of Palaearctic Coleoptera. Volume 8. Curculionoidea II. Brill, Leiden-Boston, 700 pp.
- Marseul S.A. de. 1872. Pages 1–104. In: S. A. de Marseul. 1872/1873. Monographie des otiorhynchides d’après les travaux de MM. les docteurs Seidlitz & Stierlin, coordonnés par M. S.-A. de Marseul. L’Abeille, Journal d’Entomologie, 10[1871/1872]: [3] + IV + 452 pp.
- Müller J. [G.] 1916. Coleopterologische Beiträge zur Fauna der österreichischen Karstprovinzen und ihrer Grenzgebiete. Entomologische Blätter, 1916 (4/6): 73–109.
- Müller [J.] G. 1946. Nuovi coleotteri della regione balcanica oc-

- cidental. (Dalmazia, Montenegro, Albania e Grecia). Redia, 31[1945/1946]: 107–122.
- Olivier A.G. 1807. Entomologie, ou histoire naturelle des insectes, avec leur caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée. Coléoptères. Tome cinquième. Desray, Paris, [2] + 612 pp. + 59 pl.
- Penecke K.A. 1907. II. Beschreibung der neuen Arten (pp. 13–19). In: Penecke K.A., Müller J. – Koleopterologische Ergebnisse einer Sammelreise nach Dalmatien in Sommer 1905. Verhandlungen der kaiserlich-königlich zoologisch-botanische Gesellschaft in Wien, 57: 1–19.
- Petri K. 1912. Siebenbürgens Käferfauna auf Grund ihrer Erforschung bis Jahre 1911. LXXII. Curculionidae (pp. 289–345). Friedländer & Sohns, Berlin, 376 pp.
- Porta A. 1932. Fauna Coleopterorum italica. Vol. V. Rhynchophora-Lamellicornia. Piacenza, 476 pp.
- Reitter E. 1913. Bestimmungstabellen der *Otiorrhynchus*-Arten mit ungezähnten Schenkeln aus der palaearktischen Fauna. Wiener Entomologische Zeitung, 32(2/3): 25–118.
- Reitter E. 1914. Bestimmungstabellen der *Otiorrhynchus*-Arten mit gezähnten Schenkeln aus der palaearktischen Fauna. Abteilung: *Dorymerus* und *Tournieria*. Verhandlungen des Naturforschenden Vereines in Brünn, 52[1913]: 129–242.
- Stierlin G. 1861. Revision der europäischen *Otiorrhynchus*-Arten. Berliner Entomologische Zeitschrift, 5, Beiheft, 344 pp.
- Stierlin G. 1862. Erster Nachtrag zur Revision der europäischen *Otiorrhynchus*-Arten. Berliner Entomologische Zeitschrift, 6(2): 358–378.
- Stierlin G. 1883. Bestimmungstabellen europäischen Coleoptern. IX. Curculionidae. Mittheilungen der Schweizerischen entomologischen Gesellschaft, 6(8/9): 403–645.
- Stierlin G. 1890. Bemerkungen über Curculioniden. Mittheilungen der schweizerischen entomologischen Gesellschaft, 8[1888/1893](4): 162–166.
- Taschenberg E. [L.] 1869. Verzeichniss der im zoologischen Museum der Universität Halle-Wittenberg aufgestellten Rüsselkäfer. Zeitschrift für die Gesamten Naturwissenschaften, 1869(1/2): 129–248.
- Villa A., Villa G.B. 1844. Catalogo dei coleopteri della Lombardia (pp. 406–478). In: Cattaneo C. – Notizie naturali e civili su la Lombardia. Vol. 1. Bernardoni, Milano, CXII+492 pp. + 3 pl.
- Winkler A. 1932. Catalogus coleopterorum regionis palearcticae. Pars 12: 1393–1520. A. Winkler, Wien.