A review of the Cetoniinae (Coleoptera: Scarabaeidae) from Argentina and adjacent countries: systematics and geographic distributions

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A total of 30 species of Gymnetini (Coleoptera: Scarabaeidae: Cetoniinae) are known from Argentina: *Allorhina cornifrons* (Gory & Percheron, 1833); *Blaesia atra* Burmeister, 1842; *Blaesia subrugosa* Moser, 1905; *Desicasta purpurascens* Schoch, 1898, dubious record; *Gymnetis bajula* (Olivier, 1879); *Gymnetis bonplandi* Schaum, 1844, new country record; *Gymnetis bouvieri* Bourgoin, 1912; *Gymnetis bruchi* Moser, 1910, new status (= *Aemilius wagneri* Le Moul, 1939, new synonymy); *Gymnetis carbo* (Schürhoff, 1937); *Gymnetis chalcipes* Gory & Percheron, 1833; *Gymnetis cordobana* (Schürhoff, 1937), new status; *Gymnetis flavomarginata* Blanchard, 1847; *Gymnetis gory Janson, 1877, new status; *Gymnetis hebraica* (Drapié, 1820), new country record; *Gymnetis hepatica* Di Iorio, new species; *Gymnetis litigiosa* Gory & Percheron, 1833, new status; *Gymnetis pantherina* Burmeister, 1842 (= *Gymnetis meleagris* Burmeister, 1842, = *Paragymnetis rubrocincta* Schürhoff, 1937, new synonymy), new country record; *Gymnetis puddybunda* Burmeister, 1866; *Gymnetis schistacea* Burmeister, 1847, new status; *Gymnetis undata* (Olivier, 1789); *Heterocotinis semiopaca* (Moser, 1907); *Hologymnetis* sp. (= *Gymnetis rubida*, not Gory & Percheron, 1833); *Hoplopyga albiventris* (Gory & Percheron, 1833); *Hoplopyga brasiliensis* (Gory & Percheron, 1833); *Hoplopyga liturata* (Olivier, 1879); *Hoplopygothrix atropurpurea* (Schaun, 1841), new country record; *Marmarina insculpta* (Kirby, 1819), new status, new country record; *Marmarina tigrina* (Gory & Percheron, 1833), (= *Maculinetis litora* Schürhoff, 1937, new synonymy); *Neocorvicoana reticulata* (Kirby, 1819); *Neocorvicoana tricolor* (Schürhoff, 1937). *Marmarina argentina* Moser, 1917 is considered a *nomen dubium* until a redescription and illustration of the type specimen facilitates the proper identification of this species. The following type specimens were examined: *Blaesia atra* Burmeister, 1842 (holotype); *Gymnetis alauda* Burmeister, 1842 (holotype, = *G. pantherina*); *G. bruchi* (lectotype, here designated); *G. dysoni* Schaum, 1844 (paralactotype); *G. meleagris* Burmeister, 1842 (paralactotype, = *G. pantherina*); *G. perplexa* Burmeister, 1842 (holotype, = *G. bajula*); *G. puddybunda* (holotype); *G. puddybunda porteri* Dallas, 1930 (holotype, = *G. puddybunda*); *G. punctipennis* Burmeister, 1844 (paralactotype); *G. strobeli* Burmeister, 1866 (holotype, = *Marmarina tigrina*); *G. platensis* Brèthes, 1925 (holotype, = *Heterocotinis semiopaca*); *G. platensis tandilensis* Brèthes, 1925 (holotype, = *H. semiopaca*); *Coelocratus rufipennis* (Gory & Percheron, 1833) (lectotype, here designated); *Trigonopeltastes geometricus* Schaum in Burmeister & Schaum, 1841 (lectotype, here designated). Four species are endemic to Argentina (*G. bouvieri*, *G. bruchi*, *G. cordobana*, and *G. puddybunda*), but records of these species might be expected in the Bolivian and Paraguayan Chaco, as well as in Uruguay. Male parameres, armature of the internal sac of the aedeagus, and the general aspects of adults are presented. An additional six species of Cetoniinae bring the total number in Argentina to 36 species: *Euphoria lurida* (Fabricius, 1775) (Cetoniini); *Cyclidius elongatus* (Olivier, 1789) (Cremastocheilini); and *Inca bonplandi* (Gyllenhal, 1817), *Inca clathrata clathrata* (Olivier, 1792), *Inca pulverulenta* (Olivier, 1879), and *Trigonopeltastes triangulus* (Kirby, 1819) (Trichiini). New records in adjacent countries are four species for Bolivia from a total of 18, 127 of 24 for Paraguay, and two of 10 for Uruguay; 25 species are shared between Argentina and Brazil (three are new records for Brazil).

**Key words:** fruit chafer, distributions, South America

**Introduction**

The systematics of Cetoniinae (Coleoptera: Scarabaeidae) has a complicated nomenclatural history, summarized in part by Burmeister & Schaum (1840, 1841), Schaum (1844, 1849), Kraatz (1888), Martínez (1949), Hardy (1975), Krikken (1984), and Antoine (2001). Some recent taxonomic reviews of New World taxa have been published: the