

**A PROPOSE FOR ACCEPTION OF A SINGLE GENUS AS
JUDOLIA MULSANT, 1863 INSTEAD OF THE GENERA
JUDOLIA MULSANT, 1863 AND *PACHYTODES* PIC, 1891
(COLEOPTERA: CERAMBYCIDAE: LEPTURINAE: LEPTURINI)**

Hüseyin Özdikmen*

* Gazi Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 06500 Ankara / TÜRKİYE. E-mail: ozdikmen@gazi.edu.tr

[Özdikmen, H. 2011. A propose for acception of a single genus as *Judolia* Mulsant, 1863 instead of the genera *Judolia* Mulsant, 1863 and *Pachytodes* Pic, 1891 (Coleoptera: Cerambycidae: Lepturinae: Lepturini). Munis Entomology & Zoology, 6 (2): 900-904]

ABSTRACT: The paper presents a propose to use a single generic name, *Judolia* Mulsant, 1863 as valid instead of the genera *Judolia* Mulsant, 1863 and *Pachytodes* Pic, 1891. Since, M. Pic simplistically claimed the name *Pachytodes* as a subgenus of ancient genus *Judolia* Mulsant, 1863. His claim based on only a few speculative characters. In fact the characters of the North American *Judolia* does not allow to definite the subgenus *Pachytodes*.

KEY WORDS: *Judolia*, *Pachytodes*, Lepturini, Lepturinae, Cerambycidae, Coleoptera.

At present, *Judolia* and *Pachytodes* regarded as separate genera in the tribe Lepturini. In this case, the genus *Judolia* has Holarctic chorotype, while the genus *Pachytodes* has Palaearctic chorotype.

The genus *Judolia* was described by Mulsant (1863: 496) on the base of the species *Leptura sexmaculata* (Linnaeus, 1758), *Leptura cerambycifformis* (Schrank, 1781) and *Leptura erratica* (Dalman, 1817). The original description of Mulsant as follows:

Genre Judolia, Judolie,

CARACTÈRES. Tête suivie après les yeux d'une boursouffure des tempes, et brusquement rétrécie après cette boursouffure. Prothorax muni en devant d'un rebord étroit, non suivi d'un sillon transversal; élargi en ligne courbe, à partir de ce rebord, jusqu'aux deux cinquièmes ou un peu plus de ses côtés; subarrondi dans ce point chez les uns; subanguleux chez les autres, rétréci en devant des angles postérieurs: ceux-ci, dilatés en une pointe dépassant un peu la fossette humérale des élytres; sillonné au-devant de la base. Yeux notablement échancrés. Antennes insérées vers l'angle antérieur de l'échancrure des yeux; visiblement moins avancées au bord antérieur de leur base, que celui des yeux; à premier article ordinairement à peine aussi long que le troisième. Elytres plus ou moins rétrécies d'avant en arrière; subarrondies ou obtusément tronquées chacune à l'extrémité; ordinairement un peu débordées par le dernier arceau du dos de l'abdomen. Premier article des tarsi postérieurs au moins aussi long que les deux suivants réunis.

According to Löbl & Smetana (2010) and Monné et al. (2007), this genus includes a total of 13 species that 10 of them are distributed only in Nearctic region and 3 of them are distributed only in Palaearctic region, as *J. antecurrens* (Wickham, 1913) [USA, extinct species], *J. cordifera* (Olivier, 1795) [East of USA], *J. gaurotoides* (Casey, 1893) [West-Central of USA (Rocky Mts.)], *J. impura* (LeConte, 1857) [West of USA], *J. instabilis* (Haldeman, 1847) [West of North America, North-West of Mexico], *J. montivagans* (Couper, 1864) [North America (boreal regions), West of USA], *J. quadrata* (LeConte, 1873) [West of Canada – North-Central of USA], *J. scapularis* (Van Dyke, 1920) [West of USA, Mexico], *J. sexspilota* (LeConte, 1859) [South-West of USA, Mexico], *J. swainei* (Hopping, 1922) [West and South-West of USA, Mexico] in Nearctic region, and *J. japonica*

(Tamanuki, 1942) [Japan], *J. parallelopipeda* (Motschulsky, 1860) [European Russia, Siberia, Far East Russia, Japan, Mongolia, Korea], *J. sexmaculata* (Linnaeus, 1758) [Europe (Spain to Ukraine) to Kazakhstan] in Palaearctic region. In addition to this, Danilevsky (2011) stated that «*Leptura (Judolia) sexmaculata* var. *rufimembris* Pic, 1917: 3 was described from “Siberie Or.” Red legs and antennae are impossible in *Judolia parallelopipeda*, but (Danilevsky, 2011b: 316) according to the type (preserved in Pic’s collection in Paris) it is half-colored specimen (a female, see “gallery” in www.cerambycidae.net) of *Judolia parallelopipeda* (Motschulsky, 1860)». Löbl & Smetana (2010) regarded *Judolia rufimembris* (Pic, 1917) as nomen dubium. Finally, Danilevsky (2010) gave it as a synonym of *J. parallelopipeda* (Motschulsky, 1860).

Pachytodes was proposed by Pic (1891) on the base of the species *J. cerambycifformis* and *J. erratica* as a subgenus of *Judolia* Mulsant, 1863 during his study on the collection of Abeille de Perrin. Remaining species *J. sexmaculata* (Linnaeus, 1758) was stayed by Pic (1891) in the nominotypical subgenus.

According to Löbl & Smetana (2010), this genus includes 5 species that all are in Palaearctic region, as *P. cerambycifformis* (Schrank, 1781) [Europe (Portugal and Spain to Caucasus)], *P. cometes* (Bates, 1884) [Far East Russia, Japan, South Korea], *P. erraticus* (Dalman, 1817) [Europe to East Siberia and China (Spain to E Siberia and China)], *P. longipes* (Gebler, 1832) [East Siberia, Far East Russia, Mongolia, Korea, China] and *P. orthotrichus* (Plavilstshikov, 1936) [East Siberia, Mongolia, China (Inner Mongolia)].

In fact, M. Pic (1891) simplistically claimed the name *Pachytodes* as a subgenus of ancient genus *Judolia* Mulsant, 1863. His claim based on only a few speculative characters. These are as follows:

- Body slightly elongated, prothorax has not well marked impressions at the base; elytrons lengthened, a little shrunk.....*Judolia*.
- Body more or less rounded, prothorax has well marked impressions (from inside to outside) on every side at the base, elytrons not shrunk and very attenuated.....*Pachytodes*.

M. Pic’s approach based on only three Palaearctic species as *J. cerambycifformis* and *J. erratica* and *J. sexmaculata*. He never considered any North American species. In fact the characters of the North American *Judolia* does not allow to definite the subgenus *Pachytodes* which even considered as a true genus (see for North American species, <http://bugguide.net>). If Pic’s approach accepts as a true, so at least some North American species (e.g. *J. gaurotoides*, *J. instabilis*, *J. montivagans*) should be belong to the genus *Pachytodes*.

Interestingly, the descriptions of both Mulsant (1863) [*Judolia*] and Pic (1891) [*Pachytodes*] based on the same Palaearctic species as *Leptura sexmaculata* (Linnaeus, 1758), *Leptura cerambycifformis* (Schrank, 1781) and *Leptura erratica* (Dalman, 1817).

Consequently, I propose to combine into a single genus as *Judolia* Mulsant, 1863 of all known species that were included in the genera *Judolia* and *Pachytodes*. This approach is also supported by zoogeographical data. In this case, the Holarctic genus *Judolia* Mulsant, 1863 includes 17 species (with 8 subspecies) in the world fauna as follows (alphabetically on the base of Löbl & Smetana (2010) and Monné et al. (2007)):

Genus JUDOLIA Mulsant, 1863: 496Type species: *Leptura sexmaculata* Linnaeus, 1758*Pachytodes* Pic, 1891: 65 (Type sp.: *Leptura cerambyciformis* Schrank, 1781)*Julodia* Pic, 1891: 12 (Type sp.: *Leptura sexmaculata* Linnaeus, 1758)

cerambyciformis Schrank, 1781: 154 (*Leptura*) E: AB AL AR AU BE BH BU BY
CR CT CZ DE EN FR GB GE GG GR HU IR IT LA LS LT LU MC MD NL NT PL PT
RO SK SL SP ST SZ UK YU A: TR

anticeundulatus Pic, 1915a: 29 (*Leptura*)*bekidicus* Pic, 1915h: 18 (*Leptura*)*bisbistigma* Pic, 1906g: 67 (*Leptura*)*bisquadrastigmatus* Pic, 1915a: 29 (*Leptura*)*breveseparatus* Pic, 1953a: 9*decempunctatus* Olivier, 1795: 26 (*Leptura*)*digoniensis* Pic, 1915a: 29 (*Leptura*)*fauconneti* Pic, 1916b: 4 (*Leptura*)*humerifera* Pic, 1915h: 18 (*Leptura*)*lateseparatus* Pic, 1953a: 9*martialis* Pic, 1916b: 4 (*Leptura*)*multiinterrupta* Pic, 1915a: 30 (*Leptura*)*octomaculatus* Schaller, 1783: 299 (*Leptura*)*quadrinaculatus* Scopoli, 1763: 47 (*Leptura*) [HN]*salbachi* Pic, 1908b: 3 (*Leptura*)*sexmaculatus* Panzer, 1795: 272 (*Leptura*)*sexpunctatus* Mulsant, 1839: 244 (*Pachyta*)*urbisensis* Pic, 1915a: 29 (*Leptura*)*valesiaca* Pic, 1915a: 29 (*Leptura*)*cometes* Bates, 1884: 218 (*Leptura*) A: FE JA SC*connectus* Nishio, 1950: 20 (*Strangalia*)*cordifera* Olivier, 1795: 25 (*Leptura*) NAR: USA (East)*lunaris* Haldeman, 1847: 59*deceptiva* Casey, 1924: 283*longior* Casey, 1924: 284*erraticus bottcheri* Pic, 1911: 5 (*Leptura*) A: ES KZ WS XIN

erraticus erraticus Dalman, 1817: 490 (*Leptura*) E: AB AL AR AU BH BU BY CR
CT CZ FR GE GG GR HU IT KZ MC MD PL RO SK SL SP ST SZ TR UK YU A: IN
KZ SY TR

akbesianus Pic, 1898a: 6*antedivisus* Pic, 1914d: 14 (*Leptura*)*anticonotatus* Pic, 1914d: 13 (*Leptura*)*atroapicalis* Pic, 1913c: 186 (*Leptura*)*atrosuturalis* Pic, 1915a: 38 (*Leptura*)*eibesianus* Pic, 1914d: 13 (*Leptura*)*erythrurus* Küster, 1848c: 90 (*Pachyta*)*gasturius* Pic, 1915a: 38 (*Leptura*)*heyrovskiji* Pic, 1924c: 26 (*Leptura*)*hungaricus* Pic, 1913c: 186 (*Leptura*)*italicus* Pic, 1916b: 4*kalavaritanus* Pic, 1913c: 186 (*Leptura*)*quinquepunctatus* Pic, 1915h: 18 (*Leptura*)*ragusai* Pic, 1923d: 3*roberti* Pic, 1915a: 38 (*Leptura*)*rosinae* Pic, 1914d: 13 (*Leptura*)*rufopicalis* Pic, 1913c: 186 (*Leptura*)*rufonotatus* Pic, 1913c: 186 (*Leptura*)*russicus* Pic, 1898h: 54*septemsignatus* Küster, 1848c: 89 (*Pachyta*)*siculus* Pic, 1916b: 4

- subapicalis* Pic, 1914d: 15 (*Leptura*)
testaceofasciatus Pic, 1913c: 186 (*Leptura*)
unijunctus Pic, 1914d: 14 (*Leptura*)
gaurotoides gaurotoides Casey, 1893: 592 (*Leptura*) **NAR:** USA (West-Cent.: Rocky Mts.)
vivarium Casey, 1924: 282
knulli Swaine & Hopping, 1928: 46
gaurotoides auripilis Linsley & Chemsak, 1976: 50 **NAR:** USA (West)
impura LeConte, 1857: 64 (*Leptura*) **NAR:** USA (West)
instabilis Haldeman, 1847: 59 (*Pachyta*) **NAR:** Namer (West), Mexico (North-West)
convexa LeConte, 1850: 332
quadrata Horn, 1886: xiii (not LeConte, 1873)
flaviventris Schaeffer, 1908: 342
pacifica Casey, 1913: 249
trajecta Casey, 1913: 250
japonica Tamanuki, 1942: 179 (*Strangalia*) **A:** JA
longipes Gebler, 1832: 67 (*Pachyta*) **A:** ES FE MG NC NE NO SC
amurianus Pic, 1902f: 19
bodoi Pic, 1914c: 5
nigrosuturalis Pic, 1917g: 3 (*Leptura*)
octoguttatus Pic, 1914c: 5
montivagans montivagans (Couper, 1864: 87) **NAR:** Namer (boreal regions)
sexmaculata Kirby in Richardson, 1837: 182 (not Linnaeus, 1758)
seminigra Casey, 1924: 283
montivagans barberi (Fall, 1907: 250) **NAR:** USA (West)
orthotrichus Plavilstshikov, 1936: 393 (*Judolia*) **A:** ES MG NMO
parallelopipeda Motschulsky, 1860: 146 (*Grammoptera*) **E:** NT **A:** ES FE JA MG NC SC WS "Korea"
abbreviata Motschulsky, 1875: 143 (*Grammoptera*)
multidisjuncta Pic, 1914c: 5
rufimembris Pic, 1917g: 3 (*Leptura*)
shirarakensis Matsumura, 1911a: 137 (*Leptura*)
quadrata LeConte, 1873: 225 (*Leptura*) **NAR:** Canada (West) - USA (North-Central)
scapularis Van Dyke, 1920: 43 (*Leptura*) **NAR:** USA (West), Mexico
isabellae Hopping, 1922: 162
sexmaculata Linnaeus, 1758: 398 (*Leptura*) **E:** AN AU BY CT CZ EN FI FR GB GE GR HU IR IT LA LT NR NT PL RO SK SP ST SV SZ UK **A:** KZ
alpestris Pic, 1914c: 5
dentatofasciata Mannerheim, 1852b: 308 (*Grammoptera*)
helvetica Pic, 1914c: 5
milliati Pic, 1945b: 6
rostiana Pic, 1902f: 19 (*Judolia*)
testaceofasciata DeGeer, 1775: 133 (*Leptura*)
trifasciata Fabricius, 1792b: 349 (*Leptura*)
tyrolensis Pic, 1914c: 5
sexspilota LeConte, 1859: 80 (*Leptura*) **NAR:** USA (South-West), Mexico
minuta Casey, 1924: 284
swaini swaini Hopping, 1922: 163 (*Leptura*) **NAR:** USA (West), Mexico
swaini jacintana Linsley, 1940: 256 (*Anoplodera*) **NAR:** USA (South-West)

ACKNOWLEDGEMENT

Thank to Dr. M. L. Danilevsky (RUSSIA) for providing the reference, Pic (1891).

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