

**CHECKLIST OF THE GENUS *LEPTOMIAS* FAUST
(COLEOPTERA: CURCULIONIDAE: ENTIMINAE)
OF THE WORLD**

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ABSTRACT: The paper to be published is based on an annotated checklist of *Leptomias* Faust (Entiminae: Curculionidae: Coleoptera) comprising 131 species with their updated nomenclature, synonyms and distribution. The analysis indicates that the genus is predominantly distributed in Oriental region. China (including Tibet) and India are the areas where the genus is well known, particularly the Himalayan and Sub-Himalayan regions. Currently, China is the single largest country with 81 species, followed by India with 35 species of *Leptomias*.

KEY WORDS: *Leptomias*, checklist, synonyms, distribution.

Weevils are among the most important insect herbivores and their species diversity is well documented worldwide, particularly in the tropics (Anderson, 1993, 1995; Farrell, 1998). The family Curculionidae comprises about 4600 genera and 51000 described species. It is larger than any other in weevils and comprises more than 80% of all weevil species (Oberprieler et al., 2007). The broad nosed weevils of the subfamily Entiminae, with more than 12000 described species form the largest group of weevils and they are distributed world-wide, mostly in tropical regions. The Entiminae includes many serious agriculturally important pests (Yunakov & Nadein, 2006). *Leptomias* Faust is one of the important genera within the tribe Tanymecini (Entiminae: Curculionidae). *Leptomias* Faust was first described by Faust (1886) with *Pachynotus angustatus* Redtenbacher as the type species. Marshall (1916) studied the genus and provided a key to species from the Oriental region. He referred the generic names *Heteromias* Faust and *Parisomias* Faust as synonyms of *Leptomias* Faust. Gunther & Zumpt (1933) added *Cneorrhinus* Redtenbacher also in the list of synonyms of *Leptomias* Faust. The genus was redefined by Aslam (1961) and Chen (1991) based on their finding from Indo-Pakistan region and China, respectively. Apart from the work of Gandhi & Pajni (1988a,b, 1989), who described four species from India no notable work has come out from India and adjacent countries. As far as its economic importance is concerned, the species *Leptomias nigroguttatus* Gandhi & Pajni has been reported as a pest of beans in Jammu and Kashmir (Gandhi & Pajni, 1988a). Moreover, no comprehensive studies have been undertaken during recent times.

MATERIAL AND METHODS

This checklist is mainly based on available literature rather than on extensive taxonomic studies. It has been compiled mainly with the aid of Zoological Record (Insecta), Coleopteran Catalogues and original descriptions, whenever available.

RESULTS AND DISCUSSION

Annotated checklist of *Leptomias* of the world (Table 1)

Genus *Leptomias* Faust

Leptomias Faust, 1886: 132

Heteromias Faust, 1897: 344; Marshall, 1916: 172

Parisomias Faust, 1897: 342; Marshall, 1916: 172

Cneorrhinus Redtenbacher, 1844: 543 (nec *Cneorrhinus* Schoenherr, 1823);
Gunther & Zumpt, 1933

Neoleptomias Voss, 1961: 183

Type: *Pachynotus angustatus* Redtenbacher, 1844

An analysis of the fauna described by the different coleopterists indicates that Chao & Chen (1980-1992) contributed by far the most extensive work on *Leptomias*. They have described 66 species including a few subspecies from China (including Tibet). Faust (16 species), Aslam (15 species) Marshall (14 species) and Voss (11 species) were the other important contributors on the genus. Gandhi & Pajni (1988-89) described four new species with genitalia description from India. Hoffman (1963), Bajfenov (1980), Zumpt (1937), Redtenbacher (1944) and Hustache (1928) (one species each) were the other contributors in the field.

The zoogeographical distribution of the genus indicates that it predominantly exists in Oriental region. China (including Tibet) and India are the areas, where the genus is well known, particularly the Himalayan and Sub-Himalayan regions. China is the largest single region contributing with 81 species. From India, 35 species have been recorded, mainly in the states of Jammu and Kashmir, Uttarakhand, Himachal Pradesh and Sikkim.

While a great deal of taxonomic work is needed, a review of existing literature is necessary to facilitate future studies on the genus. Hence, in the present study an attempt has been made on preparation of checklist of world species of the genus *Leptomias* Faust. It includes 131 species with current updated valid names including synonyms and distribution. Synonyms are listed under their respective alphabetical order too. The names of the subgenera, if any, are given in parentheses after species name. Species previously included in the genus but now placed in the other genera are also included in the alphabetical order but neither numbered nor given distribution.

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Table 1. Annotated checklist of *Leptomias* of the world.

S.No	Species	Distribution
1.	<i>acuminatus</i> Aslam, 1961: 333	Tibet, China
2.	<i>acutus</i> Aslam, 1961: 328	Tibet, China
2a.	<i>acutus zayuensis</i> Chao in Chao and Chen, 1981: 538	Tibet, China
3.	<i>aeneus</i> Marshall, 1955: 150	India
4.	<i>alternans</i> Chao in Chao and Chen, 1980: 100	China
	<i>ampliocollis</i> Chao in Chao and Chen, 1981: 534 see <i>schoenherrii</i>	
	<i>amplifrons</i> Chao in Chao and Chen, 1981: 541 transferred to <i>Xizanomias magnus</i> Chao, 1980; Chen, 1991: 266	
5.	<i>angustatus</i> (Redtenbacher, 1844) <i>Pachynotus angustatus</i> Redtenbacher, 1844: 542; Faust, 1886: 132 <i>Cneorrhinus pictus</i> Redtenbacher, 1844: 543; <i>Leptomias angustatus</i> ; Marshall, 1916: 177 (= <i>Cneorrhinus pictus</i> Redtenbacher, 1844)	India
6.	<i>aphelocnemius</i> Aslam, 1961: 330	Tibet, China
7.	<i>arcuatus</i> Chen, 1987: 412	China
8.	<i>argenteus</i> Hoffmann, 1963: 80	Iraq
9.	<i>audax</i> Faust, 1886: 134	India
10.	<i>bicaudatus</i> Chen, 1987: 412	China
11.	<i>bimaculatus</i> (Faust, 1886) <i>Parisomias bimaculatus</i> (Faust, 1886: 132) Aslam, 1961: 321; <i>Leptomias bimaculatus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	Turkistan, India
12.	<i>bipustulatus</i> Faust, 1897: 342	India
13.	<i>bispiculatus</i> Chen, 1987: 412	China
14.	<i>bituberculatus</i> Marshall, 1916 <i>Leptomias bituberculatus</i> Marshall, 1916: 179 <i>Parisomias bituberculatus</i> ; Aslam, 1961: 321; <i>Leptomias bituberculatus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
15.	<i>brevicornutus</i> Chao in Chao and Chen, 1981: 540	Tibet, China
16.	<i>chagyabensis</i> Chao and Chen, 1981: 542	Tibet, China
17.	<i>chaoi</i> Chen, 1983: 401	China
18.	<i>clarus</i> Chao in Chao and Chen, 1980: 98	China
19.	<i>clavellatus</i> Chen, 1992: 850	China
20.	<i>clavicus</i> Marshall, 1955: 147	India
21.	<i>clavipes</i> (Faust, 1897) <i>Heteromias clavipes</i> Faust, 1897: 345; Gunther and Zumpt, 1933	Mongolia, China

22.	<i>costatus</i> (Faust, 1897) <i>Parisomias costatus</i> Faust, 1897: 345; Aslam, 1961: 321; <i>Leptomias costatus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
	<i>crassus</i> Chen in Chao and Chen, 1981: 533 transferred to <i>Odontomias</i> : Chen, 1991: 265	
23.	<i>crinitarsus</i> Aslam, 1961: 326	Tibet, China
24.	<i>curtus</i> Marshall, 1916 <i>Leptomias curtus</i> Marshall, 1916: 180 <i>Parisomias curtus</i> ; Aslam, 1961: 321; <i>Leptomias curtus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
	<i>curvipes</i> Marshall, 1916: 190 transferred to <i>Achlaeonomus</i> : Aslam, 1961: 322	
	<i>cylindricus</i> Marshall, 1916: 186 see <i>jekeli</i>	
25.	<i>damxungensis</i> Chen in Chao and Chen, 1981: 530	Tibet, China
	<i>dentatus</i> Chen in Chao and Chen, 1981: 533 transferred to <i>Odontomias</i> : Chen, 1991: 265	
26.	<i>depressus</i> Chao in Chao and Chen, 1981: 546	Tibet, China
27.	<i>dilatipes</i> Gandhi and Pajni, 1989: 131	India
	<i>discaris</i> Chao in Chao and Chen, 1980: 98 transferred to <i>Triangulomias</i> : Chen, 1991: 264	
28.	<i>elongatoides</i> Chen, 1987: 411	China
29.	<i>elongatulus</i> Marshall, 1916 <i>Leptomias elongatulus</i> Marshall, 1916: 181; <i>Parisomias elongatulus</i> ; Aslam, 1961: 321; <i>Leptomias elongatulus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i> but did not mention the species)	India
30.	<i>elongitus</i> Chao in Chao and Chen, 1981: 543	Tibet, China
31.	<i>errans</i> Faust, 1887: 158	Central Asia
32.	<i>errectus</i> Chao in Chao and Chen, 1981: 539	Tibet, China
33.	<i>ferganensis</i> Bajtenov, 1980: 127	Kyrgyzstan
34.	<i>foveicollis</i> (Voss, 1935) <i>Xylinophorus foveicollis</i> Voss, 1935: 58; Emden and Emden, 1939: 264	China, Szetschwan
35.	<i>foveolatus</i> Chao in Chao and Chen, 1981: 536	Tibet, China
	<i>gerensis</i> Chen in Chao and Chen, 1981: 531 see <i>sagaensis</i>	
36.	<i>gibbus</i> Aslam, 1961: 335	India
37.	<i>globoicollis</i> Aslam, 1961: 332	Tibet, China
38.	<i>globosus</i> Chen, 1987: 412	China
39.	<i>granulatus</i> Chao, 1980: 30	China
40.	<i>griseus</i> Chao, 1980: 30	China
41.	<i>hirsutus</i> Chao in Chao and Chen, 1981: 540	Tibet, China
42.	<i>huangi</i> Chao in Chao and Chen, 1981: 537	Tibet, China
43.	<i>humilis</i> (Faust, 1882) <i>Piazomias humilis</i> Faust, 1882: 264; Korotyayev, 1991: 886 <i>korbi</i> Pic, 1905: 98; Korotyayev, 1991: 886 <i>Formanekia sibirica</i> Fleischer, 1923:16; Luk'yanovich, 1938: 239	China
	<i>impar</i> Chao and Chen, 1980: 98 transferred to <i>Triangulomias</i> : Chen, 1991: 264	
44.	<i>inclusens</i> Voss, 1970: 448	Nepal
45.	<i>indicus</i> Gandhi and Pajni, 1988b: 235	India
46.	<i>inquinatus</i> Voss, 1959: 87	Afghanistan

47.	<i>invidus</i> Faust, 1886: 136	India
48.	<i>irrisus</i> (Faust, 1890) <i>Eutinopus irrisus</i> Faust, 1890: 434; Zumpt, 1931: 124	China
49.	<i>jekeli</i> Faust, 1886: 135 <i>cylindricus</i> Marshall, 1916: 186; Aslam, 1961: 321	India, Pakistan
50.	<i>kamdeschanus</i> Voss, 1959: 88	Afghanistan
51.	<i>kangmarensis</i> Chao in Chao and Chen, 1981: 535	Tibet, China
52.	<i>kashmirensis</i> Aslam, 1961: 337	India
53.	<i>kingdomwardi</i> Marshall, 1955: 149 <i>korbi</i> Pic, 1905: 98 see <i>humalis</i>	India
54.	<i>laoshanensis</i> Chao, 1980: 31	China
55.	<i>laticnemius</i> Aslam, 1961: 331 <i>latus</i> Chao in Chao and Chen, 1981: 532 transferred to <i>Odontomias</i> : Chen, 1991: 265	Tibet, China
56.	<i>lhazeensis</i> Chen, 1991: 264	China
57.	<i>lineatus</i> Aslam, 1961: 326	Tibet, China
58.	<i>lineostriatus</i> Gandhi and Pajni, 1988b: 236 <i>lituratus</i> (Redtenbacher); Marshall, 1916: 179 transferred to <i>Achlaeonomus</i> : Aslam, 1961: 322	India
59.	<i>lobatus</i> Aslam, 1961: 334	India
60.	<i>longicollis</i> Chao in Chao and Chen, 1981: 542	Tibet, China
61.	<i>longiscapus</i> Aslam, 1961: 337	Pakistan
62.	<i>longisetosus</i> Chao in Chao and Chen, 1981: 534 <i>longulus</i> (Faust, 1897: 345); Marshall, 1916: 189 transferred to <i>Achlaeonomus</i> : Aslam, 1961: 322	Tibet, China
63.	<i>mainlingensis</i> Chao in Chao and Chen, 1981: 541	Tibet, China
64.	<i>mangkamensis</i> Chao in Chao and Chen, 1981: 543	Tibet, China
65.	<i>marshalli</i> Hustache, 1928: 4	India
66.	<i>micans</i> Chao in Chao and Chen, 1981: 544 <i>microdentatus</i> Chao and Chen, 1981: 529 transferred to <i>Triangulomias</i> : Chen, 1991: 264	Tibet, China
67.	<i>mildineatus</i> Chao in Chao and Chen, 1981: 536	Tibet, China
68.	<i>monticola</i> Voss, 1959: 89	Afghanistan
69.	<i>moxiensis</i> Chen, 1992: 851 <i>mundali</i> Marshall, 1933: 565 see <i>lituratus</i>	China
70.	<i>nagarzeensis</i> Chen, 1991: 263	China
71.	<i>niger</i> Chen, 1983: 401 <i>nigrinitidus</i> Chen, 1992: 850 see <i>nigrinitidus</i>	China
72.	<i>nigroguttatus</i> Gandhi and Pajni, 1988a: 151 <i>nigrolatus</i> Chao and Chen, 1981: 532 transferred to <i>Odontomias</i> : Chen, 1991: 265	India
73.	<i>nigrinitidus</i> Chen, 1992: 850 (also spelt <i>L. nigrinitidus</i>) <i>nitor</i> Chao in Chao and Chen, 1980: 98 transferred to <i>Triangulomias trianguloplatus</i> Chao, 1980: 98; Chen, 1991: 264	China
74.	<i>nubilus</i> Chen, 1983: 401	China
75.	<i>obconicus</i> Chao in Chao and Chen, 1981: 541	Tibet, China
76.	<i>obfuscatus</i> Voss, 1961: 183 (<i>Neoleptomias</i>)	Afghanistan
77.	<i>ochrolineatus</i> Chen, 1987: 412 <i>odontcnemus</i> Chao in Chao and Chen, 1981: 532 transferred to <i>Odontomias</i> : Chen, 1991: 265	China
78.	<i>opacus</i> Chao in Chao and Chen, 1981: 543 <i>orbiculatus</i> Chen, 1983: 402 transferred to <i>Odontomias</i> : Chen, 1991: 265	Tibet, China
79.	<i>pandus</i> Chen in Chao and Chen, 1981: 528 <i>parvilatus</i> Chen, 1983: 401 transferred to type species of	Tibet, China

	<i>Odontomias</i> Chen, 1991: 265	
80.	<i>persicus</i> Zumpt, 1937: 15	Faristan
81.	<i>persimilis</i> Marshall, 1916 <i>Leptomias persimilis</i> Marshall, 1916: 187; <i>Parisomias persimilis</i> ; Aslam, 1961: 321; <i>Leptomias persimilis</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
82.	<i>pilosus</i> Aslam, 1961: 338	India
83.	<i>pinnatus</i> Chen in Chao and Chen, 1981: 530	Tibet, China
84.	<i>planocollis</i> Chao in Chao and Chen, 1981: 535	Tibet, China
	<i>planus</i> Chen in Chao and Chen, 1981: 533 transferred to <i>Odontomias crassus</i> Chen, 1981: 533; Chen, 1991: 265	
85.	<i>porcellus</i> Marshall, 1916 <i>Leptomias porcellus</i> Marshall, 1916: 180; <i>Parisomias porcellus</i> ; Aslam, 1961: 321; <i>Leptomias porcellus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	Beludschistan
86.	<i>possibialis</i> Voss, 1970: 449	Nepal
87.	<i>praetermissus</i> Marshall, 1916: 186	India
88.	<i>puncticollis</i> Voss, 1955: 296	Afghanistan
	<i>pusillus</i> Chen in Chao and Chen, 1981: 533 transferred to <i>Odontomias crassus</i> Chen, 1981: 533; Chen, 1991: 265	
89.	<i>qamdoensis</i> Chao and Chen, 1981: 542	Tibet, China
90.	<i>qomolangmaensis</i> Chao and Chen, 1981: 530	Tibet, China
91.	<i>ramosus</i> Chen in Chao and Chen, 1981: 531	Tibet, China
92.	<i>rubiginosus</i> Chen, 1983: 402	China
93.	<i>sabulosus</i> Faust, 1897 <i>Leptomias sabulosus</i> Faust, 1897: 341; <i>Parisomias sabulosus</i> ; Aslam, 1961: 321; <i>Leptomias sabulosus</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
94.	<i>sagaensis</i> Chen, 1981: 531 <i>gerensis</i> Chao and Chen, 1981: 531; Chen, 1991: 264	Tibet, China
95.	<i>schoenherri</i> (Faust, 1882) <i>Heteromias schoenherri</i> Faust, 1882: 296; Marshall, 1916: 172 <i>amplicollis</i> Chao in Chao and Chen, 1981: 534; Morimoto and Kojima, 2003	Tibet, China
96.	<i>scrobicollis</i> Marshall, 1916 <i>Leptomias scrobicollis</i> Marshall, 1916: 181; <i>Parisomias scrobicollis</i> Aslam, 1961: 321; <i>Leptomias scrobicollis</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
97.	<i>semicircularis</i> Chao in Chao and Chen, 1981: 538	Tibet, China
98.	<i>seriatosetulus</i> Voss, 1940: 50	China
99.	<i>setulosus</i> Marshall, 1916: 177	India
100.	<i>siahus</i> (Aslam, 1969) <i>Parisomias siahus</i> (Aslam, 1969: 551); Chao and Chen, 1981: 541	India
	<i>simulans</i> Chao in Chao and Chen, 1981: 541 see <i>tsanghoensis</i>	
101.	<i>spinifer</i> Marshall, 1916 <i>Leptomias spinifer</i> Marshall, 1916: 176;	India

	<i>Parisomias spinifer</i> ; Aslam, 1961: 321; <i>Leptomias spinifer</i> ; Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	
102.	<i>squamosetosus</i> Chao and Chen, 1981: 539	Tibet, China
103.	<i>stoliczkae</i> Faust, 1886: 137	India
104.	<i>strictus</i> Chen in Chao and Chen, 1981: 533	Tibet, China
105.	<i>stultus</i> Faust, 1897: 340	India
106.	<i>subaeneus</i> Chen in Chao and Chen, 1981: 527	Tibet, China
107.	<i>sublongicollis</i> Chen, 1987: 411	China
108.	<i>submidlineatus</i> Chen, 1988: 367	China
109.	<i>subundulans</i> Chen, 1988: 367	China
110.	<i>sulcicollis</i> Marshall, 1916 <i>Leptomias sulcicollis</i> Marshall, 1916: 187; <i>Parisomias sulcicollis</i> ; Aslam, 1961: 321; <i>Leptomias sulcicollis</i> Chao and Chen, 1980: 105 (implicit combination, as they synonymised <i>Parisomias</i> back into <i>Leptomias</i>)	India
111.	<i>sulcus</i> Chen, 1992: 851	China
112.	<i>tenuis</i> Chen, 1992: 850	China
113.	<i>thibetanus</i> Faust, 1888 <i>Heteromias thibetanus</i> Faust, 1888: 285; 1890: 437	Tibet, China
114.	<i>transversicollis</i> Voss, 1940: 49	Turkistan
	<i>trianguloplatus</i> Chao in Chao and Chen, 1980: 98 transferred to type species of <i>Triangulomias</i> Chen, 1991: 264	
115.	<i>triangulus</i> Chao and Chen, 1981: 527	Tibet, China
116.	<i>trilineatus</i> Chao in Chao and Chen, 1980: 99	China
117.	<i>tsanghoensis</i> Aslam, 1961: 329 <i>simulans</i> Chao in Chao and Chen, 1981: 541; Chen, 1991: 264	Tibet, China
118.	<i>tuberculatus</i> Chao in Chao and Chen, 1980: 99	China
119.	<i>tuberosus</i> Chen, 1984: 105	China
120.	<i>undulans</i> Marshall, 1955: 147	India
121.	<i>uniseriis</i> Chen, 1983: 402	China
122.	<i>varians</i> Chen, 1987: 411	China
123.	<i>verrucicollis</i> Faust, 1886: 138	India
124.	<i>viridicantis</i> Chen, 1988: 367	China
125.	<i>viridilinearis</i> Chen, 1984: 105	China
126.	<i>viridirostris</i> Voss, 1961: 185 (<i>Leptomias</i>)	Afghanistan
127.	<i>waltersi</i> Aslam, 1961: 333	India
	<i>waltoni</i> Marshall, 1916: 189 transferred to <i>Triangulomias</i> : Chen, 1991: 264	
128.	<i>wenchuanensis</i> Chen, 1992: 851	China
129.	<i>yuhuensis</i> Chen, 1992: 850	China
130.	<i>yulogshanensis</i> Chen, 1992: 850	China
131.	<i>zheduoshanensis</i> Chen, 1992: 851	China