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New Limoniidae (Diptera) from the Cretaceous Iberian and Kachin amber

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Abstract. *Gonomyia (Iberiana) penalveri* **subgen. et sp. nov.** and *Gonomyia (Cretagonomyia) burmitica* **subgen. et sp. nov.** are described.

INTRODUCTION

Kania-Kłosok *et al.* (2022) described two new subgenera and two new species in an electronic-only journal, but due to an oversight, the article was not registered in the Official Register of Zoological Nomenclature (ZooBank) before publication and thus is not published for the purposes of zoological nomenclature. That article was registered *a posteriori*: [urn:lsid:zoobank.org:pub:265B6297-9396-41AC-B662-977BE3E28DEA](https://zoobank.org/pub:265B6297-9396-41AC-B662-977BE3E28DEA), but in order to make the names available, a succinct, Code-compliant extract from that article is published here, including separate ZooBank registration numbers for the names of the new taxa as well as for this new work.

SYSTEMATIC PALAEOLOGY

Order Diptera Linnaeus, 1758

Infraorder Tipulomorpha Rohdendorf, 1961

Family Limoniidae Speiser, 1909

Subfamily Chioneinae Rondani, 1861

Genus *Gonomyia* Meigen, 1818

Gonomyia Meigen, 1818: 146. Type species: *Limnobia tenella* Meigen, 1818, by original designation.

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Subgenus *Iberiana* subgen. nov.

lsid:zoobank.org:act:D89ABC75-37D9-4554-B45D-0D00CD4BE6EC

Iberiana Kania-Kłosok, Arillo, Tuchowski, Zhang & Krzemiński, 2022: 2. Unavailable name; proposed in a work not complying with Art. 8.5.3.

Type species: *Gonomyia (Iberiana) penalveri* sp. nov., by present designation.

Diagnosis. The same as for the type species.

Etymology. The subgenus name is derived from *Iberia*, the Latin term for the Iberian Peninsula. Gender: feminine.

***Gonomyia (Iberiana) penalveri* sp. nov.**

lsid:zoobank.org:act:78FA9C6D-C4EE-41CA-890C-4EDCECD6C62B

Gonomyia (Iberiana) penalveri Kania-Kłosok, Arillo, Tuchowski, Zhang & Krzemiński, 2022: 3. Unavailable name; proposed in a work not complying with Art. 8.5.3.

Diagnosis. Antenna 10-segmented, shorter than palpus; last palpomere as long as three preceding combined. Wing: Sc ending beyond half length of Rs; Rs very long and almost straight; R₃ short, approximately 0.3× length of R₄, basal section of R₅ leaving Rs at almost right angle; crossvein m-cu behind fork of Mb into M₁₊₂ and M₃₊₄; d-cell small, only 1.5× as long as wide, almost rhomboidal; A₂ short, straight.

Remarks. For a more detailed description, including images, see Kania-Kłosok *et al.* (2022).

Etymology. The specific name is dedicated to the eminent biologist and paleontologist, Enrique Peñalver from the Museo Geominero, Madrid, Spain.

Material examined. Holotype No. MCNA 8818 (female), housed in the Museo de Ciencias Naturales de Álava (Vitoria-Gasteiz, Álava, Spain).

Horizon and locality. Lower Cretaceous (Upper Albian); Peñacerrada I amber site (Peñacerrada I, Moraza), eastern area of the Basque-Cantabrian Basin, Burgos, northern Spain (after Kania-Kłosok *et al.* (2022)).

For details of description see Kania-Kłosok *et al.* (2022).

Subgenus *Cretagonomyia* subgen. nov.

lsid:zoobank.org:act:99833E8E-B1DC-40E8-9339-1B68CF170E67

Cretagonomyia Kania-Kłosok, Arillo, Tuchowski, Zhang & Krzemiński, 2022: 4. Unavailable name proposed in a work not complying with Art. 8.5.3.

Type species: *Gonomyia (Cretagonomyia) burmitica* sp. nov., by present designation and monotypy.

Diagnosis. The same as for the type species.

Etymology. The specific name is derived from “*creta*” (Latin) = Cretaceous and “*Gonomyia*” from the name of the nominative genus. Gender: feminine.

***Gonomyia (Cretagonomyia) burmitica* sp. nov.**

lsid:zoobank.org:act:8751CC1E-C99E-40F5-B9A0-DB40CA940604

Gonomyia (Cretagonomyia) burmitica Kania-Kłosok, Arillo, Tuchowski, Zhang & Krzemiński, 2022: 3. Unavailable name proposed in a work not complying with Art. 8.5.3.

Diagnosis. Antenna 13-segmented, longer than palpus; scape and pedicel long, c. $2.5\times$ as long as wide, scape cylindrical, pedicel widened in the middle, first flagellomere elongate, narrow, c. $4\times$ as long as wide; palpus shorter than antenna, last palpomere shorter than two penultimate combined. Wing: Sc with its tip just before fork of M_{3+4} into M_3 and M_4 ; R_s long and almost straight; R_3 c. $1.5\times$ length of R_{2+3+4} and $0.75\times$ length of R_4 ; basal section of R_5 leaving R_s at acute angle; M_3 $1.5\times$ as long as R_{2+3+4} ; A_2 short, arched. Male genitalia: gonostyles very simple, gonostyles not strongly sclerotized, outer gonostylus narrow, elongate, pointed, longer than inner gonostylus, inner gonostylus as narrow as outer, pointed.

Remarks. For a more detailed description, including images, see Kania-Kłosok *et al.* (2022).

Etymology. The specific name is derived from the name of the variety of resin containing the inclusion—burmite.

Material examined. Holotype No. BA02-050 (male), housed in the Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing, China.

Horizon and locality. Lowermost Cenomanian, Hukawng Valley, northern Myanmar. The mining is done at a hill named Noiye Bum, near Tanai Village ($26^\circ 21' 33.41''\text{N}$, $96^\circ 43' 11.88''\text{E}$) (after Kania-Kłosok *et al.* (2022)).

For details of description see Kania-Kłosok *et al.* (2022).

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