

Revision of the species of *Pollenia* Robineau-Desvoidy described by Camillo Rondani (Diptera: Calliphoridae)

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The four nominal species of *Pollenia* Robineau-Desvoidy described by Camillo Rondani are revised. Lectotypes are designated and a synopsis of all names treated is provided. *Pollenia paupera* Rondani, 1862 is established as the valid name for *Pollenia longithecata* Rognes, 1987 (syn. n.). *Pollenia ruficrura* Rondani, 1862 (stat. rev.) is reestablished as a valid taxon.

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Introduction

Rondani (1862) described four nominal species in the genus *Pollenia* Robineau-Desvoidy. I am not aware of previous revisions of Rondani's *Pollenia* material. In the recent Catalogue of Palaearctic Diptera (Schumann 1986), the identity of one of them was cited, the other three were treated as nomina dubia. Since the Rondani species are based on material collected in the Mediterranean region it is essential that their identities be established. I have studied all material of Rondani's *Pollenia* species in Museo Zoologico 'La Specola', in Florence. Pape (1988, 1989) should be consulted for details of the Rondani collection. All specimens are in drawer no. 21 unless otherwise stated. I have designated lectotypes to fix the identities of the nominal species, and the specimens have been labelled accordingly by me. Some specimens have been dissected. These carry the dissected parts in glycerol in a vial on the pin, the tergites T1-5 being glued to a piece of card on the pin. The number labels (white labels with red numbers) are the same on the 'Additional material' as on the lectotypes, unless otherwise stated.

Lectotype ♂, here designated, ITALY, 'in collibus agri parmensis' [in the hills of the Parma countryside]. The lectotype is in good condition and covered only very slightly with debris and dust. I have dissected it.

Labels. - 1097.

Identity. - A specimen of *Pollenia vagabunda* (Meigen, 1826) as understood by Rognes (1991), i.e. with the tips of the paraphallic processes carrying a row of minute teeth.

Additional material. - 1 ♂ (without head) = *P. vagabunda* (Meigen); 1 ♂ = *P. angustigena* Wainwright; both are labelled by me as paralectotypes. The latter does not show the three thoracic presutural vittae, and may not belong to the original syntypic material.

Note. - Bezzi & Stein (1907: 526) erroneously listed *pulvillata* as the valid name for a species separate from *P. vagabunda* Meigen, even though Rondani's description, like Meigen's, makes explicit reference to the three distinct presutural thoracic vittae.

2. *levis* Rondani, 1862 (*Pollenia*): 195 (key), 200 (description).

Lectotype ♂, here designated, ITALY: 'in planitie agri parmensis' [on the plains of the Parma coun-

Catalogue

1. *pulvillata* Rondani, 1862 (*Pollenia*): 195 (key), 198 (description).

tryside] or 'Insubria'. It is in good condition lacking only the distal 2 segments of the left middle tarsus.

Labels. – 1102.

Identity. – *Pollenia atramentaria* (Meigen, 1826) as understood by Zumpt (1956).

Additional material. – 2♂ 1♀ = *P. atramentaria* (Meigen); all labelled as paralectotypes by me.

Note. – Bezzi & Stein (1907: 525) treated *levis* (as *laevis*) as the valid name for a species of *Pollenia*. Séguy (1928: 172) synonymised it with *atramentaria* Meigen (citing Villeneuve), an action followed by Schumann (1986). Bezzi & Stein's spelling (*laevis*) is an incorrect subsequent spelling.

3. *paupera* Rondani, 1862 (*Pollenia*): 196 (key), 200 (description).

Lectotype ♂, here designated, MALTA and GOZO. The lectotype is in fair condition and I have dissected it. It has a somewhat reduced median hypophallic lobe, a feature described previously by Rognes (1987: 488) in occasional specimens of this species. It has veins R_{2+3} and R_{4+5} joined at the wing margin.

Labels. – (1) 12 / Malta [old ink]; (2) 1103.

Identity. – A species of the *rudis* species group. *Pollenia paupera* Rondani, 1862 is a valid senior synonym of *Pollenia longithecica* Rognes, 1987 (**syn. n.**), which name it must replace. It was erroneously synonymised under '*Pollenia vespillio* Fabricius' [= *Pollenia amentaria* Scopoli, cf. Rognes 1991] by Bezzi & Stein (1907).

Additional material. – 1♂ 1♀ (labelled '393/406', Box F) = *P. pediculata* Macquart (*pseudorudis* Rognes); 2♂ 5♀ = *P. pediculata* Macquart; 4♂ 1♀ = *P. paupera* Rondani (*longithecica* Rognes) (1♂ also labelled Malta); 1♀ = *paupera* Rondani or *pediculata* Macquart; all have been labelled as paralectotypes by me.

Note. – *P. paupera* was described (in key p. 196) as having veins R_{2+3} and R_{4+5} joined before reaching the costa, i.e. cell r_{4+5} as being stalked or just closed in margin. This feature varies somewhat among the 16 specimens but none of them has the cell r_{4+5} broadly open. The ♂ and ♀ set apart in Box F differ in this respect, the ♂ has the cell narrowly open, the ♀ has it distinctly stalked.

4. *ruficrura* Rondani, 1862 (*Pollenia*): 196 (key), 202 (description).

Lectotype ♀, by designation of Rognes (*in press*), ITALY, 'in collibus agri parmensis' [in the hills of the Parma countryside].

Labels. – 1106.

Identity. – A perfectly good, easily identified but apparently extremely rare species belonging to the *viatica* (*pallida*) species group. Although showing a unique combination of characters among Palaearctic *Pollenia*, i.e. wholly black abdominal ground colour in combination with yellow tibiae and tips of femora (hence the name *ruficrura*), it was misunderstood by Bezzi & Stein (1907), who synonymised it under *rudis* Fabricius. It was ignored by later authors except reestablished as a valid taxon by Rognes (*in press*).

Additional material. – 1♀ conspecific with the lectotype. I have labelled it as paralectotype.

Note. – Further details on the type material are given in Rognes (*in press*).

Unavailable name

flavipalpis: Rondani, 1862: 202 (as 'Sp. 10. *P. flavipalpis* Macq. Mgn. 7.')

This name was assigned to Rondani by Bezzi & Stein (1907: 525, 527) and by Schumann (1986: 49). However, an examination of Rondani's text makes it obvious that the name is an incorrect subsequent spelling [ICZN, Articles 19 (a) and 33 (c)] of *fulvipalpis* Macquart, 1835 and not intended by Rondani as the name of a new nominal taxon. In the key on p. 196 the name is correctly spelled ('Sp. 10 *fulvipalpis* Macq. '), the same is the case in the index on p. 236.

I received 3♂ 4♀ as 'flavipalpis' from Florence, all labelled 1105. Their identities were as follows: 1♂ 1♀ = *P. viatica* Robineau-Desvoidy (*P. pallida* Rodendorf); 2♂ 2♀ = *P. mediterranea* Grunin; 1♀ = *P. pediculata* Macquart (*P. pseudorudis* Rognes). Thus, since none of them belong to the true *P. fulvipalpis* Macquart (cf. Rognes *in press*) all have been misidentified by Rondani.

Synopsis

Pollenia atramentaria (Meigen, 1826) (*Musca*)

Pollenia levis Rondani, 1862

Pollenia vagabunda (Meigen, 1826) (*Musca*)

Pollenia pulvillata Rondani, 1862 **syn. n.**

Pollenia paupera Rondani, 1862

Pollenia longithecica Rognes, 1987 **syn. n.**

Pollenia ruficrura Rondani, 1862 **stat. rev.**

flavipalpis: Rondani, 1862 (*Pollenia*). Incorrect subsequent spelling of *fulvipalpis* Macquart, 1835 (*Pollenia*). Unavailable.

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