



## A new species of *Hoeneidia* (Lepidoptera: Noctuidae, Noctuinae: Noctuini) from China

JÁNOS BABICS<sup>1</sup>, BALÁZS BENEDEK<sup>2</sup> & AIDAS SALDAITIS<sup>3,4</sup>

<sup>1</sup>*H-1042 Budapest, Munkásotthon utca 70-72, Hungary. E-mail: janos.babics@gmail.com*

<sup>2</sup>*H-2045 Törökbálint, Árpád u. 53, Hungary. E-mail: benedekbalazs@icloud.com*

<sup>3</sup>*Nature Research Centre, Akademijos str. 2, LT-08412 Vilnius-21, Lithuania. E-mail: saldrasa@gmail.com*

<sup>4</sup>*Corresponding author*

The monotypic genus *Hoeneidia* Boursin, 1954 was erected by Ch. Boursin for the *H. cidarioides*. In his article, Boursin (1954) included the genus *Hoeneidia* (*Höneidia* in the original description) with the trifine noctuids of the subfamily Noctuinae and between the genera *Rhyacia* Hübner, [1821] and *Standfussiana* Boursin, 1946. In his original description, Boursin (1954) indicated that the new genus was only provisional but several basic *Hoeneidia* characters did differentiate it from the other two genera.

With the addition of the new species to the genus, the authors would propose separating *Hoeneidia* from the related two genera based on external appearance and genitalia. However, the genus needs further investigation to confirm its accurate placement. Current position of the genus is in the family Noctuidae, tribe Noctuini according modern classification of the Noctuidae (Lafontaine & Schmidt 2010).

Institutional abbreviations used are as follows: AFM—Alessandro Floriani (Milan, Italy); BBT—Balázs Benedek (Törökbálint, Hungary); GBG/ZSM—Gottfried Behounek (Grafing, Germany)/Zoologische Staatssammlung, München (Germany); HNHM—Hungarian Natural History Museum (Budapest, Hungary); NRCV—Nature Research Centre (Vilnius, Lithuania).

The following external and genital characters are used to diagnose the *Hoeneidia* genus: head and thorax densely hairy, mouse- or dark grey coloured with fine black and white coloured scales; palpi relatively short to medium length, densely hairy; antennae finely bipectinated or finely serrulated; tibia proximally smooth by spines, middle covered by only one spine; distally slightly covered by small spines; tarsus robust with relatively broad and elongated spine, contains two rows of well-developed, but smaller spines; forewing elongated, narrow or broad and short; ground colour similar to thorax; orbicular stigma circular; reniform stigma kidney shaped, followed distally with a rounded, pale brown cloud; claviform stigma well discernible, narrow; hindwing uniformly darkened, with indistinct discal spot; uncus narrow and elongated; basally or medially turned; apically finely hooked; vinculum relatively short and sclerotized, with broad margins; valvae symmetrical with parallel margins; straight or curved along, relatively sclerotized; harpe short and arcuate or Broad and curved; harpe basis relatively broad and elongated, heavily sclerotized; cucullus reduced into two variably shaped, small but characteristic triangular costal extensions; aedeagus short and cylindrical; carinal plate membranous, ventrally covered with a well developed, broad, thorn-like carinal process; vesica proximally extended, spherical, dorsally narrow and cylindrical; ovipositor conical, heavily sclerotized; apophysis elongated but broad, heavily sclerotized, distally extended; bursae heavily sclerotized, basin shaped; ductus and corpus bursae membranous, relatively small.

The *Hoeneidia* genus includes the following two species: *H. cidarioides* Boursin, 1954 and *H. quadrata* sp. n.

### Description of the new species

#### *Hoeneidia quadrata* Saldaitis, Benedek & Babics sp. n.

(Figs 1, 2, 7–9, 12, 13, 16)

**Type material. Holotype:** male (Fig. 2), China, N. Sichuan, road Barkam/Hong Yuan, 3200 m, 23.ix.2011, N32°10.353", E102°29.692", Floriani leg., in the collection of GBG/ZSM; (JB1952m).

## Acknowledgements

The authors would like to extend their thanks to Alessandro Floriani (Milan, Italy) for kindly loaning his material and to Zsolt Bálint (Budapest, Hungary) for his helpful assistance from the HNHM. The authors are grateful to Gottfried Behounek (Grafing, Germany) and Jolanta Rimsaite (Vilnius, Lithuania) for taxonomy suggestions, Tomas Zubacikas (Vilnius, Lithuania) for assistance with imago pictures and Robert Borth (Milwaukee, United States) for English grammar and DNA suggestions.

## References

- Boursin, Ch. (1954) Die „Agrotis“-Arten aus Dr. h.c. H. Höne's China-Ausbeuten (Beitrag zur Fauna Sinica). *Bonner zoologische Beiträge*, 5 (3–4), 213–309.  
<http://dx.doi.org/10.1007/978-3-663-07024-5>
- Hebert, P.D.N., Cywinska, A., Ball, S.L. & de Waard, J.R. (2003) Biological identifications through DNA barcodes. *Proceedings of the Royal Society B*, 270, 313–321.  
<http://dx.doi.org/10.1098/rspb.2002.2218>
- Lafontaine, J.D. & Schmidt, B.C. (2010) Annotated check list of the Noctuoidea (Insecta, Lepidoptera) of North America north of Mexico. *ZooKeys*, 40, 1–239.  
<http://dx.doi.org/10.3897/zookeys.40.414>
- Ronkay, L. & Varga, Z. (1997) New Taxa of the genera *Auchmis* Hübner, [1821] and *Nekrasovia* Ronkay & Varga, 1993, (Lepidoptera, Noctuidae). *Acta Zoolologica Academia Scientiarum Hungarica*, 43 (2), 149–161.