



## **First Supplement to the Monograph of the Oriental Dryinidae (Hymenoptera: Chrysidoidea): Description of *Neodryinus lohmani*, a New Species from Thailand**

Authors: Olmi, Massimo, Xu, Zaifu, and Guglielmino, Adalgisa

Source: Florida Entomologist, 96(4) : 1556-1558

Published By: Florida Entomological Society

URL: <https://doi.org/10.1653/024.096.0438>

---

BioOne Complete ([complete.BioOne.org](https://complete.BioOne.org)) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at [www.bioone.org/terms-of-use](https://www.bioone.org/terms-of-use).

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

---

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

FIRST SUPPLEMENT TO THE MONOGRAPH OF THE ORIENTAL  
DRYINIDAE (HYMENOPTERA: CHRYSIDOIDEA): DESCRIPTION OF  
*NEODRYINUS LOHMANI*, A NEW SPECIES FROM THAILAND

MASSIMO OLMI<sup>1,\*</sup>, ZAIFU XU<sup>2</sup> & ADALGISA GUGLIELMINO<sup>3</sup>

<sup>1</sup>Tropical Entomology Research Center, Via De Gasperi 10, I-01100 Viterbo, Italy

<sup>2</sup>College of Natural Resources and Environment, South China Agricultural University, Guangzhou, Guangdong 510640, P.R. China

<sup>3</sup>Department of Agriculture, Forests, Nature and Energy, University of Tuscia, Via San Camillo de Lellis, I-01100 Viterbo, Italy

\*Corresponding author; E-mail: olmi@unitus.it

ABSTRACT

*Neodryinus lohmani* **sp. nov.** is described from Thailand. *Neodryinus lohmani* can be distinguished from the related Oriental species *N. phuphayonensis* Olmi by the different shape of the dorsal process of paramere (scythe-shaped in *N. lohmani*; not scythe-shaped in *N. phuphayonensis*).

Key Words: Taxonomy, Trang Province, Oriental region, Gonatopodinae, key

RESUMEN

Se describe una nueva especie, *Neodryinus lohmani*, para la Tailandia. *N. lohmani* puede ser reconocida de la especie oriental más cercana (*N. phuphayonensis* Olmi) por el aspecto diferente del proceso dorsal del parámetro (falciforme en *N. lohmani*; no falciforme en *N. phuphayonensis*).

Palabras Clave: Taxonomía, Provincia de Trang, región Oriental, Gonatopodinae, clave

Dryinidae are parasitoids of Hemiptera Auchenorrhyncha (Guglielmino & Bückle 2010; Guglielmino et al. 2006; Guglielmino & Olmi 2013; Guglielmino & Virla 1998).

The genus *Neodryinus* Perkins 1905 is distributed in all zoogeographical regions (Olmi 1984) and contains 50 species, among which 18 are known from the Oriental region (Olmi 1984, 1991, 1995, 1998, 2008, 2011; Xu et al. 2003, 2013; Xu & He 1996, 1997).

The species of *Neodryinus* are known as parasitoids of Flatidae, Nogodinidae and Ricanidae (Guglielmino & Bückle 2003; Guglielmino & Olmi 2013; Xu et al. 2013).

In 2013, after the publication of the monograph by Xu et al. (2013), a specimen of *Neodryinus* collected in Thailand, Trang Province, was studied, resulting in the new species described below.

MATERIAL AND METHODS

The descriptions follow the terminology of Olmi (1984), Olmi & Guglielmino (2010) and Xu et al. (2011, 2012a, 2012b, 2013). The measure-

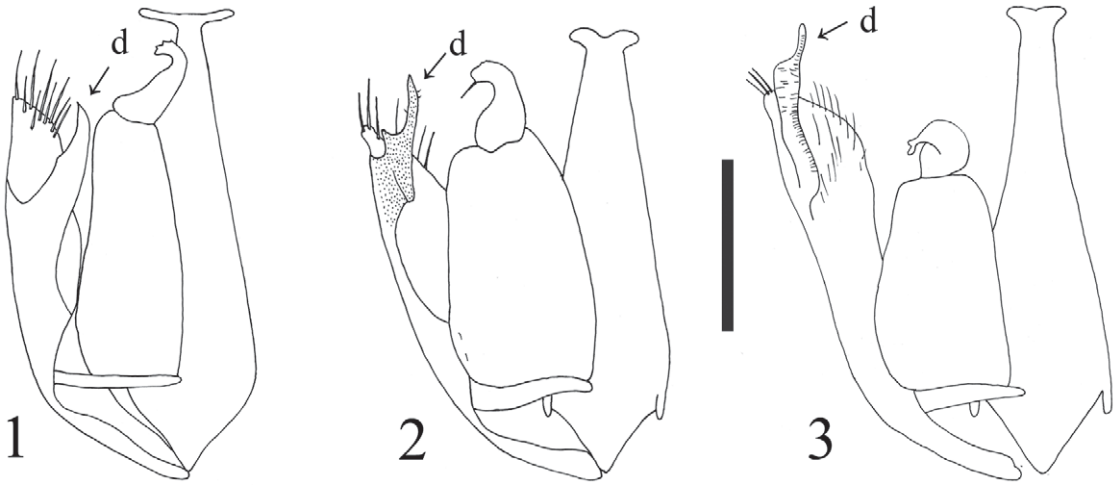
ments reported are relative, except for the total length (head to abdominal tip, excluding the antennae), which is expressed in millimetres. In the descriptions POL is the distance between the inner edges of the lateral ocelli; OL is the distance between the inner edges of a lateral ocellus and the median ocellus; OOL is the distance from the outer edge of a lateral ocellus to the compound eye; OPL is the distance from the posterior edge of a lateral ocellus to the occipital carina; and TL is the distance from the posterior edge of an eye to the occipital carina.

The specimens studied in this paper are deposited in the collection of the Oberösterreichisches Landesmuseum, Linz, Austria (OLL).

*Neodryinus lohmani* **sp. nov.** (Fig. 1)

Description

**HOLOTYPE** male. Fully winged. Length 3.0 mm (paratype 2.8 mm). Head black, except mandible partly testaceous; antenna brown-testaceous, except scape and pedicel testaceous;



Figs. 1-3. Male genital capsules of *Neodryinus lohmani* sp. nov. (1, holotype), *N. phuphayonensis* Olmi (2, holotype) and *N. javanus* (3, from Malaya) (right half removed); d = dorsal process of paramere. Scale bars: 0.17 mm for 1, 0.20 mm for 2, 0.15 mm for 3.

mesosoma black; metasoma brown; legs brown, except protibia and protarsus testaceous and first segment of meso- and metatarsus whitish. Antenna filiform; antennal segments in following proportions: 5:4:12:10:9:10:9:9:7:8. Head granulated and reticulate rugose; frontal line incomplete, shortly present in front of median ocellus; occipital carina absent; temple absent; POL = 7; OL = 2; OOL = 4; greatest breadth of lateral ocellus longer than OL (2.5:2). Scutum dull, granulated. Notauli complete, posteriorly separated; minimum distance between notauli shorter than POL (4:7); in holotype, notauli hardly visible near posterior margin of scutum. Scutellum granulated. Metanotum unsculptured. Propodeum dull, reticulate rugose; dorsal region with two lateral large areolae sculptured by longitudinal keels. Forewing hyaline, without dark transverse bands; distal part of stigmal vein longer than proximal part (15:12). Paramere (Fig. 1) with long, sharp, regularly curved and slightly scythe-shaped distal dorsal process.

Female

Unknown.

Material examined:

- 6. Distal part of stigmal vein longer than proximal part; dorsal process of paramere regularly bent, slightly scythe-shaped (Fig. 1) . . . . . *N. lohmani* Olmi, Xu & Guglielmino sp. nov.
- Distal part of stigmal vein about as long as proximal part; dorsal process of paramere twisted (Figs. 2 and 3) . . . . . 7

HOLOTYPE: male, THAILAND: Trang Province, Koa Chong Mt., N 07° 32' E 99° 47', 140 m, V-2005, D. Lohman. Paratype: 1 male, same locality label as holotype.

Etymology

Species named after the collector, Dr. D. Lohman.

Remarks

The characters distinguishing the new species are the following: frontal line incomplete; scutellum granulated; forewing hyaline, without dark transverse bands; distal part of stigmal vein longer than proximal part; dorsal process of paramere long and sharp, regularly curved, slightly scythe-shaped, located in distal region of paramere. *N. lohmani* is close to *N. phuphayonensis* Olmi 2008 and *N. javanus* Roepke 1916. The main difference among these 3 species is the shape of the dorsal process of the paramere: regularly curved and slightly scythe-shaped in *N. lohmani* (Fig. 1), twisted and not scythe-shaped in *N. phuphayonensis* (Fig. 2) and *N. javanus* (Fig. 3)). Following the description of *N. lohmani*, the key to the males of the Oriental species of *Neodryinus* published by Xu et al. (2013) can be modified as follows:

7. Dorsal process of paramere with medial and distal apices rounded (Fig. 3); frontal line present between antennal toruli . . . . . *N. javanus* (Roepke)
- Dorsal process of paramere with medial and distal apices sharp (Fig. 2); frontal line absent . . . . . *N. phuphayonensis* Olmi

## ACKNOWLEDGMENTS

Many thanks to Dr. Martin Schwarz (OLL) for the loan of the specimens studied in the present paper.

## REFERENCES CITED

- GUGLIELMINO, A., AND BÜCKLE, C. 2003. Description of larval instars of *Neodryinus typhlocybae* (Ashmead, 1893) (Hymenoptera Dryinidae), with remarks on its biology. Mitt. Mus. Naturk. Berlin-D. Entomol. Zeit. 50(1): 143-150.
- GUGLIELMINO, A., AND BÜCKLE, C. 2010. Description of larval instars of *Mystrophorus formicaeformis* Ruthe (Hymenoptera: Dryinidae). Zootaxa 2602: 57-66.
- GUGLIELMINO, A., BÜCKLE, C., AND MOYA-RAYGOZA, G. 2006. Description of the larval instars of *Gonatopus bartletti* Olmi, 1984 (Hymenoptera: Dryinidae). Zootaxa 1226: 51-60.
- GUGLIELMINO, A., AND OLMÍ, M. 2013. An updated host-parasite catalog of world Dryinidae (Hymenoptera: Chrysidoidea). Zootaxa. In press.
- GUGLIELMINO, A., AND VIRLA, E. G. 1998. Postembryonic development of *Gonatopus lunatus* Klug (Hymenoptera: Dryinidae: Gonatopodinae), with remarks on its biology. Ann. Soc. entomol. France (N. S.) 34(3): 321-333.
- OLMI, M. 1984. A revision of the Dryinidae (Hymenoptera). Mem. American Entomol. Inst. 37: 1-1913.
- OLMI, M. 1991. Supplement to the revision of the world Dryinidae (Hymenoptera: Chrysidoidea). Frustula entomol. (1989), N. S. 12: 109-395.
- OLMI, M. 1995. A contribution to the knowledge of the Dryinidae of Taiwan (Hymenoptera Chrysidoidea). Boll. Zool. Agric. Bachic., Ser. ii, 27: 19-34.
- OLMI, M. 1998. New Embolemidae and Dryinidae (Hymenoptera Chrysidoidea). Frustula entomol. (1997), N. S. 20: 30-118.
- OLMI, M. 2008. Descriptions of new species of Dryinidae (Hymenoptera: Chrysidoidea) from Thailand. Oriental Insects 42: 227-235.
- OLMI, M. 2011. A contribution to the knowledge of world Dryinidae (Hymenoptera Chrysidoidea). Frustula entomol. (2009), N. S. 32: 43-76.
- OLMI, M., AND GUGLIELMINO, A. 2010. Description of Erwiniinae, new subfamily of Dryinidae from Ecuador (Hymenoptera: Chrysidoidea). Zootaxa 2605: 56-62.
- PERKINS, R. 1905. Leafhoppers and their natural enemies (Pt. I. Dryinidae). Rept. Work Exp. Sta. Hawaiian Sugar Planters' Assoc., Div. Entomol. Bull. No. 1(I): 1-69.
- ROEPKE, W. 1916. Eine neue Dryinide aus Java (*Phanero-dryinus javanus* n. g. n. sp.). Tijds. Entomol. 59: 287-292.
- XU, Z., AND HE, J. 1996. A new species of the genus *Neodryinus* (Hymenoptera: Dryinidae). Zool. Res. 7: 30-32.
- XU, Z., AND HE, J. 1997. Two new species of the genus *Neodryinus* from China (Hymenoptera: Dryinidae). Acta Zootax. Sinica 22(4): 414-417.
- XU, Z., OLMÍ, M., GUGLIELMINO, A., AND CHEN, H. 2011. A new species of Dryinidae (Hymenoptera: Chrysidoidea) from China. Florida Entomol. 94(4): 848-852.
- XU, Z., OLMÍ, M., GUGLIELMINO, A., AND CHEN, H. 2012a. Checklist of Dryinidae (Hymenoptera) from Shaanxi Province, China, with descriptions of two new species. Zootaxa 3164: 1-16.
- XU, Z., OLMÍ, M., GUGLIELMINO, A., AND CHEN, H. 2012b. Checklist of Dryinidae (Hymenoptera) from Guangdong Province, China, with descriptions of two new species. Zootaxa 3231: 1-28.
- XU, Z., OLMÍ, M. & HE, J. 2003. Three new species of Dryinidae from China (Hym., Chrysidoidea). Entomol. Monthly Mag. 139: 233-236.
- XU, Z., OLMÍ, M., AND HE, J. 2013. Dryinidae of the Oriental region (Hymenoptera: Chrysidoidea). Zootaxa 3614: 1-460.