

## ***Naticornus*, a new genus of Neurigoninae (Diptera, Dolichopodidae) from Laos**

JIŘÍ OLEJNÍČEK

*Institute of Parasitology, Academy of Sciences of the Czech Republic, Branišovská 31,  
370 05 České Budějovice, Czech Republic; e-mail: jo@paru.cas.cz*

OLEJNÍČEK J. 2005: *Naticornus*, a new genus of Neurigoninae (Diptera, Dolichopodidae) from Laos. *Acta Musei Moraviae, Scientiae biologicae* (Brno) **90**: 247–250. – *Naticornus luteum* gen.nov., sp.nov. is described from Laos. The new genus is characterized by conspicuously formed fifth abdominal tergite bearing a long horn in the male. Key to Oriental genera of Neurigoninae is appended.

**Key words.** Dolichopodidae, *Naticornus luteum*, new genus, new species, Laos

### **Introduction**

The subfamily Neurigoninae contained to date two genera in the Oriental region. DYTE (1975) recorded 12 species of the cosmopolitan genus *Neurigona* Rondani, 1856 and one undescribed species of *Tenuopus* Curran, 1924. Several species of *Neurigona* were described from China by YANG (1999); some of them may be common for both the Palaearctic and Oriental regions. The species of this subfamily are characterised above all by mostly yellow coloration, dorsal postcranium flat, thorax with strongly flattened posterior scope, proepisternum with setae, femora without praeapical bristles and by relatively large hypopygium (BICKEL 1998). The subfamily is much richer in genera and species in regions south of the Holarctic.

In material collected by Vít Kubáň (Laos Expedition 1999), a hitherto undescribed species with conspicuously formed abdomen. It is described here as a new genus.

### ***Naticornus* gen.nov.**

**Type species:** *Naticornus luteum* sp.nov.

**Description.** Small (body length about 2 mm), pale yellow flies. Occiput more or less flat, slightly concave above. Face relatively broad, slightly narrowed downwards. Proboscis slightly prolonged. Postocellar cilia uniseriate. Antenna short, scape bare, arista subapical. Mesonotum with flattened area posteriorly. Acrostichals biseriate, relatively long; 6 dorsocentrals. Scutellum with 2 long marginal bristles and 2 very tiny marginal hairs. Coxae with pale hairs; femora without praeapical bristles. Hind metatarsus shorter than subsequent joint. All tarsi with claws. Wing veins R4+5 and M1+2 parallel. Anal vein represented by a short fold. Abdomen cylindrical, 5th tergite conspicuously formed dorsally. Hypopygium relatively large, not projecting far forward.

**Etymology.** Gender is neuter.

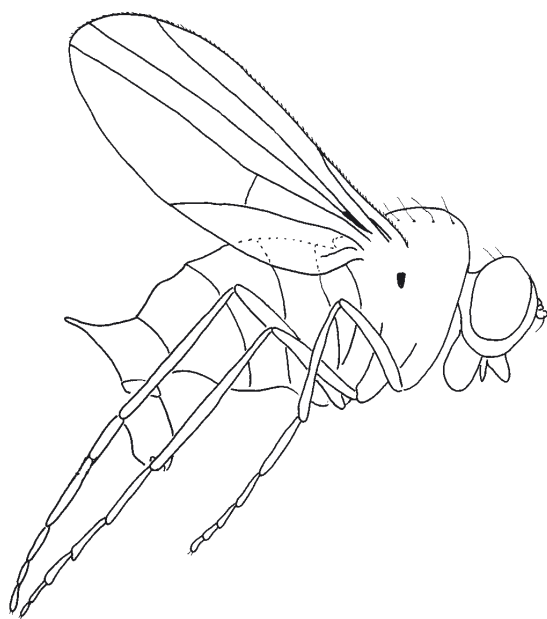
**Differential diagnosis.** The new genus is a member of the tribe Neurigonini Naglis, 2002. For differentiation from the other two Oriental genera of the subfamily Neurigoninae see key below.

**Remarks.** Monotypical, *N. luteum* is the only species known so far.

**Key to Oriental genera of Neurigoninae**

- 1(2) Posterior slope of mesonotum flattened. .... 2.
- Posterior slope of mesonotum not flattened. .... *Tenuopus* Curran
- 2(1) Male abdominal segment 5 with dorsal projection forming cornet-like thorn. Postpedicel shorter than high, reniform, arista subapical. Male tarsi simple. Smaller species. .... *Naticornus* gen.nov
- Male abdominal segment 5 with or without ventral projection. Postpedicel usually about as long as high, arista dorsal. Male tarsi often ornamented. Larger species ..... *Neurigona* Rondani

***Naticornus luteum* sp.nov.** (Figs 1, 2)



**Fig. 1.** *Naticornus luteum* sp.nov.: Body outline laterally.

**Material examined.** Holotype male and 2 paratypes (male and female): “North Laos, Louang Phrabang Province, 5 km west of Ban Song Cha (20°33–4’N, 102°14’E), 1200 m, 24.iv – 16.v.1999, Vit KUBÁŇ leg.” All material in alcohol, holotype hypopygium on microscope slide in Canada balsam. Holotype and female paratype coll. Moravské Museum Brno, paratype male in the author’s collection (Institute of Parasitology, České Budějovice).

**Description (male).** Body length 2 mm, wing length 2 mm.

Head. Frons and face pale brown, densely covered with pale grey pollen. Ocellar triangle fawn. Face about as wide as postpedicel high, almost parallel, slightly narrowing downwards. Palpus and proboscis yellow with yellow hairs. Clypeus elongated triangle. Length of proboscis about 1/2 of

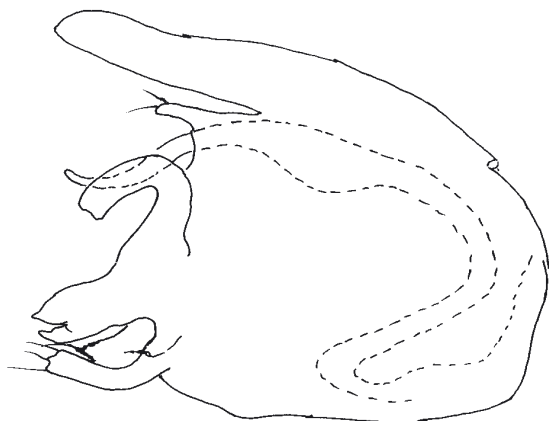


Fig. 2. *Naticornus luteum* sp.nov.: Hypopygium.

height of head. Antenna including arista yellow, scape bare. Postpedicel short (its length is about half of its height at its base), reniform. Arista subapical. Occiput brown-green, sub-iridescent. Postocular bristles in single row. All bristles on head and thorax pale brown.

Thorax yellow-white. Acrostichals biseriate, ending before praescutellar depression, length more than half of length of dorsocentrals. Line of 6 dorsocentrals tinged light grey. Two long and two very tiny scutellars. Pleura, coxae and all

legs of same colour as thorax. Proepisternum with several short hairs. Bristles and hairs on legs also yellow. Fore coxa with several hair-like bristles; tibia without long bristles. Mid coxa with one bristle in middle; tibia with 2 anterodorsals and 1 posterodorsal. Hind coxa with 1 bristle; femur without praeapical. Hind tibia with 1 dorsal bristle. Relative length of tibia:tarsomeres 1–5 = [I] 4:2:1.5:1:0.7:0.5, [II] 5.5:3:1.6:1.5:0.8:0.7, [III] 6.2:1.3:2.5:1.2:0.9:0.7.

Wing hyaline with yellow-brown veins. Halter and squamma yellow-white, the latter with white bristles.

Abdomen yellow, 5th tergite forming conspicuous thorn. Hypopygium (Fig. 2) large.

Female. Similar to male except for thorn on 5th abdominal tergite and hypopygium. Veins R4+5 and M1+2 parallel to slightly divergent at tip.

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### References

- BICKEL D. J. 1998: The Dolichopodidae (Diptera) of Midway Atol with a new species of *Dactylomyia* Aldrich, and taxonomic notes on the subfamily Neurigoninae. *Bishop museum occasional papers* No. 55: 45–55.
- DYTE C. E. 1975: Family Dolichopodidae. In: DELFINADO M. D., HARDY D. E. (eds.): A catalog of the Diptera of the Oriental region. Vol. II Suborder Brachycera through division Aschiza. Suborder Cyclorhapha. The University Press of Hawaii, Honolulu, Pp. 212–258.

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- NAGLIS S. M. 2002: Revision of the Neotropical Neurigoninae (Diptera, Dolichopodidae) III: *Bickelomyia* gen. nov., with the description of a new tribe Neurigonini. *Studia Dipterologica* **9**: 225–241.
- YANG D. 1999: New and little known species of Dolichopodidae from China (IV). *Bull. Inst. Roy. Sci. Natur. Belg. Ent.* **69**: 197–214.