



A new species of *Prorops* Waterston 1923 (Hymenoptera: Bethyridae) from Cambodia with a key to world species

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Prorops Waterston 1923 can be easily distinguished from the other genera of Sclerodermini (Bethyridae: Epyrinae) mainly by having frontal process of head well-developed; antenna twelve segmented; median, basal, and anal veins absent (Evans 1978; Terayama 2006).

The genus is a small group with four species known around the world: *P. nasuta* Waterston, 1923 (cosmopolitan), *P. petila* Evans, 1977 (Nearctic, Neotropical), *P. obsoleta* Evans, 1977 (Neotropical), *P. rakan* Terayama, 2006 (Palearctic). As an ectoparasitoid on coleopteran insects, *P. nasuta* Waterston have been studied as the natural enemy on the coffee berry borer, *Hypothenemus hampei* (Ferrari) (Coleoptera: Scolytidae) (Hargreaves 1926; Infante *et al.* 2005; Chiu-Alvarado *et al.* 2009; Vega *et al.* 2009).

Herein, we describe a new species of *Prorops* Waterston which is collected by the Malaise trap in the rain forest of Central Cardamom, Cambodia.

Materials and methods

The examined type material was collected from Central Cardamom Protected Forest (Cambodia) by Malaise trap which was established in 2010 and the holotype is deposited in the Insect Museum of College of Agriculture and Life Sciences, Seoul National University (SNU).

The terms of integument sculpture follow Harris (1979) and the following abbreviations in the description and biometric measurements are adopted from Evans (1978) and Terayama (2006): TL, total body length; LH, maximum length of head excluding mandibles; WH, maximum width of head; WF, minimum width of frons; LE, maximum length of compound eye; DAO, maximum diameter of anterior ocellus; WOT, width of ocellar triangle; POL; posterior ocellar line; AOL, antero-posterior ocellar line; OOL, ocello-ocular line; LPD, maximum length of propodeal disc; WPD, maximum width of propodeal disc; LFW, maximum length of fore wing; LM, maximum length of mesosoma in lateral view; LP, maximum length of pronotum excluding collar; WP, maximum width of pronotum.

For the illustrations, we used a Leica S8 APO Stereozoom (Leica, Solms, Germany), which was connected with the digital camera, Spot Insight TM (SPOT Imaging Solutions Inc., Sterling Heights, USA) (model no. 14.2 Color Mosaic) and the images were manipulated by IMT isolution System (IMT i-Solution Inc., Scarborough, Canada).

Genus *Prorops* Waterston 1923

Prorops Waterston 1923: 112. Type species: *Prorops nasuta* Waterston 1923, by monotypy.

Prorops mandibularis Lim, sp. nov.

(Figs 1–9)

Type material. Holotype ♀, Central Cardamom Protected Forest, Osom Commune, Veal Veng, Pursat, Cambodia, 12°03'41.6"N 103°14'40.8"E, altitude 588 m, 17–22.viii.2010, Malaise trap, Jongok LIM leg. (SNU).