



## Research article

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# On a collection of Leucosioidea (Crustacea, Decapoda, Brachyura) from Papua New Guinea, with the description of a new species

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**Abstract.** The collection of deep-sea pebble crabs (Leucosioidea) during the BIOPAPUA Expedition, comprising 8 species, including a species new to science, is significant because although the previously described species had not been recorded from the Bismarck and western Solomon Seas, they occurred in at least one nearby location (New Caledonia, Vanuatu, Solomon Is). *Praebebalia fungifera* sp. nov. is described and illustrated. It differs from its closest congener, *P. septemspinosa* Sakai, 1983, in bearing fungiform granules dorsally on carapace, shorter chelipeds, the relatively stout male first gonopod with a preapical row of setae and the beak-like tip, as compared to the rounded granules dorsally on the carapace, greatly elongate chelipeds and the slim, elongate, distally curved gonopod of *P. septemspinosa*, preapically set with very long setae and a hook-like tip.

**Keywords.** Decapoda, Leucosiidae, *Praebebalia* sp. nov., Papua New Guinea, new records.

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## Introduction

Papua New Guinea (PNG) is considered as a region of high marine biodiversity. It is centrally located in the Indo-Pacific gradient of biodiversity and referred to as the coral triangle. However, the biological data of its deep-sea areas are still largely unavailable and these seas are poorly explored by marine biologists. The current body of knowledge on the New Guinean deep sea benthic fauna stems almost exclusively from the study of highly specialized hydrothermal vents. As data on other benthic habitats are missing, patterns of possible faunal connectivity across the deep waters of the western Pacific Ocean remain vague (Pante *et al.* 2012).

Over the past decade the need for metals has rocketed, making deep-sea deposits increasingly appealing to commercial operators. The most likely targets for deep-sea mining are polymetallic sulphides, manganese nodules and cobalt-rich ferromanganese crusts. Deep seabed mining is emerging as a locally significant anthropogenic stressor through emission of toxic materials and discharge of fine particulate material, though their spatial and temporal scales depend on the particular habitat and the technology utilized. The seabed of the Bismarck and Solomon Seas harbors immense polymetallic sulphide deposits formed around submarine volcanic arcs that precipitate from hydrothermal fluid at the vicinity of

hydrothermal vent sites (Hoagland *et al.* 2010). In 2011 the government of PNG licensed deepwater copper and gold mining in the Bismarck Sea. Production at the ‘Solwara 1’ mine, located at a depth of 1600 m in the Bismarck Sea, had been scheduled for late 2013. A recently resolved legal dispute with the government of PNG has the license holder targeting production in three years (<http://www.businessadvantagepng.com/nautilus-targets-solwara-1-production-three-years>). The potential seabed wealth of high-value strategic ores had already drawn intense commercial interest. PNG, Tonga, Fiji, the Solomon Islands, Vanuatu and New Zealand have issued exploration licenses to assess the commercial feasibility of mineral resources development in their EEZs and mining will potentially affect extensive areas of the seabed (<http://www.nautilusminerals.com/s/Home.asp>).

It is, therefore, with a sense of urgency that the benthic biodiversity of the unique Bismarck Sea and West Solomon Sea, barely explored and due for destructive exploitation, is studied. Many deep-sea habitats extend over large areas, but the extent of individual species and habitat ranges is largely unknown. Greater knowledge is needed on the species diversity and range in order to gauge connectivity, resilience and recovery of deep-sea fauna. The purpose of the BIOPAPUA Expedition, conducted in 2010 by the Muséum National d’Histoire Naturelle, Paris (MNHN), Institut de Recherche pour le Développement (IRD) and the University of PNG, was to explore remote and uncharted territory and to describe the deep benthic fauna in the southwestern Pacific. BIOPAPUA was designed to sample specific habitats and to examine the deep benthic biodiversity in the Bismarck Sea and in the western Solomon Sea (in the EEZ of PNG) in order to understand patterns of faunal connectivity across the deep waters of the western Pacific Ocean (Pante *et al.* 2012). This research is critically relevant as commercial, political and public interest in the exploitation of the deep seabed increases.

The present collection, comprising 8 species, including a species new to science, is significant for although prior to the BIOPAPUA expedition the previously described species have not been recorded from the

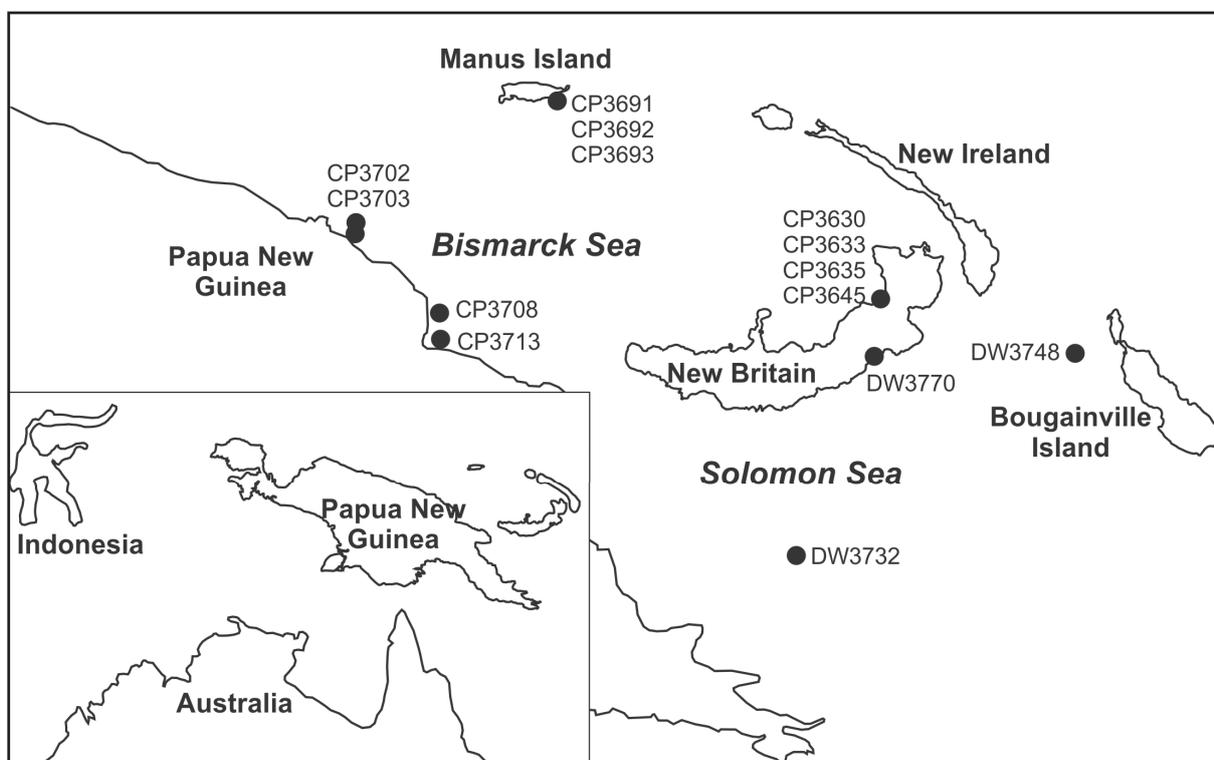


Fig. 1. Map of Papua New Guinea with stations cited in this paper.

Bismarck and western Solomon seas, they occurred in at least one nearby location (New Caledonia, Vanuatu, Solomon Is), and three species have been recorded in all three. Clearly, this small collection of leucosioids, collected at shelf and mid-slope depths, is insufficient for discerning biogeographic patterns and more extensive studies on the deep slope and bathyal leucosioids are needed. Indeed, a subsequent expedition to Madang Province, in 2012, provided a richer leucosioid collection comprising 25 species, seven of which were new to science and 15 species were new records for Papua New Guinea (Galil & Ng 2015).

## Material and methods

The BIOPAPUA research cruise aboard R/V ‘Alis’, took place between 21 Aug. and 19 Oct. 2010. 156 stations were sampled at depths between 100 and 1300 m in the Bismarck Sea and in the western Solomon Sea. Stations cited in this paper are mapped (Fig. 1). The standard French beam trawl is 4 m wide, 0.35 m high, with a conical sac of fine mesh (15, 12 mm) and double-layered cod-end. The trawl is generally deployed at 2.5–4.5 knots and towed at 1.5 knots ground speed. The Warén dredge, with an inner sac of fine mesh (3–5 mm) protected by one or two outer layers of coarse mesh (20–50 mm), was towed at 1–2 knots, or slower, depending on the bottom morphology. The material is deposited in the MNHN, Paris.

Carapace length is measured in mm along the mid-line from the frontal margin to the posterior margin (not including posterior spine where present).

## Abbreviations

cl	=	carapace length
DW	=	Warén dredge
CP	=	chalut à perche (trawl)
G1, G2	=	first, second gonopods
I., Is.	=	Island, Islands
ovi	=	ovigerous
Stn	=	station
juv.	=	young specimen

## Results

Infraorder Brachyura Latreille, 1802  
 Superfamily Leucosioidea Samouelle, 1819  
 Family Iphiculidae Alcock, 1896  
 Genus *Pariphicus* Alcock, 1896

*Pariphicus agariciferus* Ihle, 1918

*Pariphicus agariciferus* Ihle, 1918: 250, fig. 136 (type locality: Rote I., Lesser Sunda Is., Indonesia).

*Pariphicus agariciferus* – Galil & Ng 2007: fig. 3b (color photo).

## Material examined

PAPUA NEW GUINEA: Jacquinot Bay, BIOPAPUA Stn DW 3770, 05°34' S, 151°32' E, 220–294 m, 16 Oct. 2010, 1 ♀, cl 12.4 mm (MNHN-IU-2011-3871).

## Distribution

Indonesia, South China Sea, Philippines, Japan, Vanuatu (Galil & Ng 2007, 2010).

Family Leucosiidae Samouelle, 1819  
Subfamily Ebaliinae Stimpson, 1871  
Genus *Arcania* Leach, 1817

*Arcania gracilis* (Henderson, 1893)

*Arcania septemspinosa* var. *gracilis* Henderson, 1893: 403 (type locality: Gulf of Martaban, Myanmar).

*Arcania gracilis* – Galil 2001a: 184, figs 2c, 5d, synonymy. — Galil & Ng 2007: 82, fig. 1f (color photo).

**Material examined**

PAPUA NEW GUINEA, Sepik River: BIOPAPUA Stn CP 3702, 03°57' S, 144°40' E, 80–91 m, 1 Oct. 2010, 1 ♀, ovi, cl 14.7 mm; 1 ♀, cl 14.1 mm (MNHN-IU-2013-7013). BIOPAPUA Stn CP 3702, 03°57' S, 144°40' E, 80–91 m, 1 Oct. 2010, 1 ♂, cl 10.6 mm; 1 ♀, ovi, cl 14.5 mm (MNHN-IU-2013-7014).

**Distribution**

Red Sea to Solomon Is, Vanuatu, New Caledonia; at depths of 21–366 m (Galil 2001, 2007; Galil & Ng 2007, 2010).

*Arcania septemspinosa* (Fabricius, 1787)

*Cancer septemspinus* Fabricius, 1787: 325 (type locality: Indian Ocean).

*Arcania septemspinosa* – Galil 2001a: 193, figs 3b, 7b, synonymy. — Galil & Ng 2007: 87, fig. 2a (color photo).

**Material examined**

PAPUA NEW GUINEA, Sepik River: BIOPAPUA Stn CP 3702, 03°57' S, 144°40' E, 80–91 m, 1 Oct. 2010, 1 ♀, cl 16.1 mm; 1 ♀, parasitized, cl 16.8 mm; 1 juv. (MNHN-IU-2011-2276). BIOPAPUA Stn CP 3703, 03°53' S, 144°41' E, 361–750 m, 1 Oct. 2010, 1 ♀, cl 16.8 mm (MNHN-IU-2011-1833).

**Remarks**

The fauna collected at stations CP3702 and CP3703 comprised seep fauna, i.e., mussels, clams, siboglonid polychaetes. The specimens of *A. septemspinosa* may have been collected in their vicinity.

**Distribution**

Red Sea to Australia, Vanuatu, Fiji, at depths of 7–182 m depth (Galil 2001a; Galil & Ng 2009, 2010).

Genus *Parilia* Wood-Mason, 1891

*Parilia major* Sakai, 1961

*Parilia major* Sakai, 1961: 137, pl. 3, fig. 5 (type locality: Tosa Bay, Japan).

**Material examined**

PAPUA NEW GUINEA, Huon Gulf: BIOPAPUA Stn CP 3630, 06°54' S, 147°03' E, 305–307 m, 22 Aug. 2010, 1 ♀, ovi, cl 45.8 mm (MNHN-IU-2011-1133); 1 ♀, ovi, cl 45.0 mm (MNHN-IU-2011-1520). BIOPAPUA Stn CP 3633, 06°54' S, 147°05' E, 395–406 m, 22 Aug. 2010, 1 ♀, cl 47.5 mm (MNHN-IU-2011-1141); 2 ♂♂, cl 23.3, 23.2 mm (MNHN-IU-2011-1027). BIOPAPUA Stn CP 3665, 04°50' S, 151°38' E, 225–340 m, 23 Sep. 2010, 1 ♂, cl 38.3 mm (MNHN-IU-2011-1368).

### Distribution

Indonesia, Philippines, Taiwan, Japan, Solomon Is, 90–425 m (Galil 2007, Galil & Ng 2007).

Genus *Praebebalia* Rathbun, 1911

*Praebebalia fungifera* sp. nov.

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Figs 2–3

### Etymology

From *fungus* L., mushroom, for the fungiform granules on the dorsal surface of the carapace.

### Material examined

#### Holotype

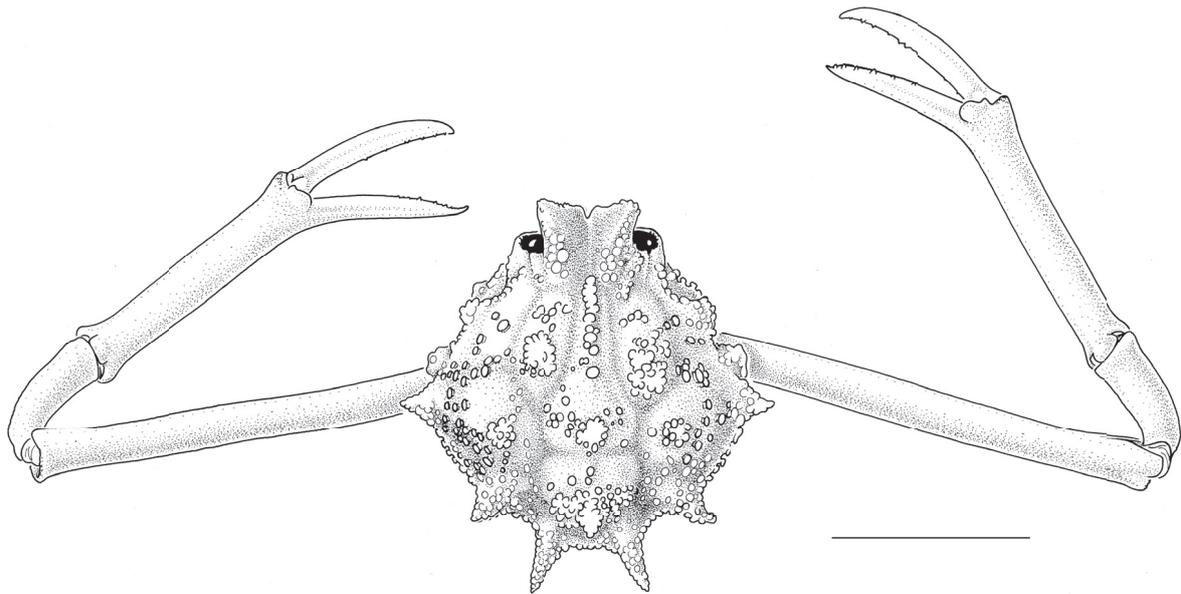
PAPUA NEW GUINEA: ♂, cl 8.8 mm, SE of Manus I., BIOPAPUA Stn CP 3693, 02°10' S, 147°17' E, 300 m, 29 Sep. 2010 (MNHN-IU-2013-5996).

#### Paratypes

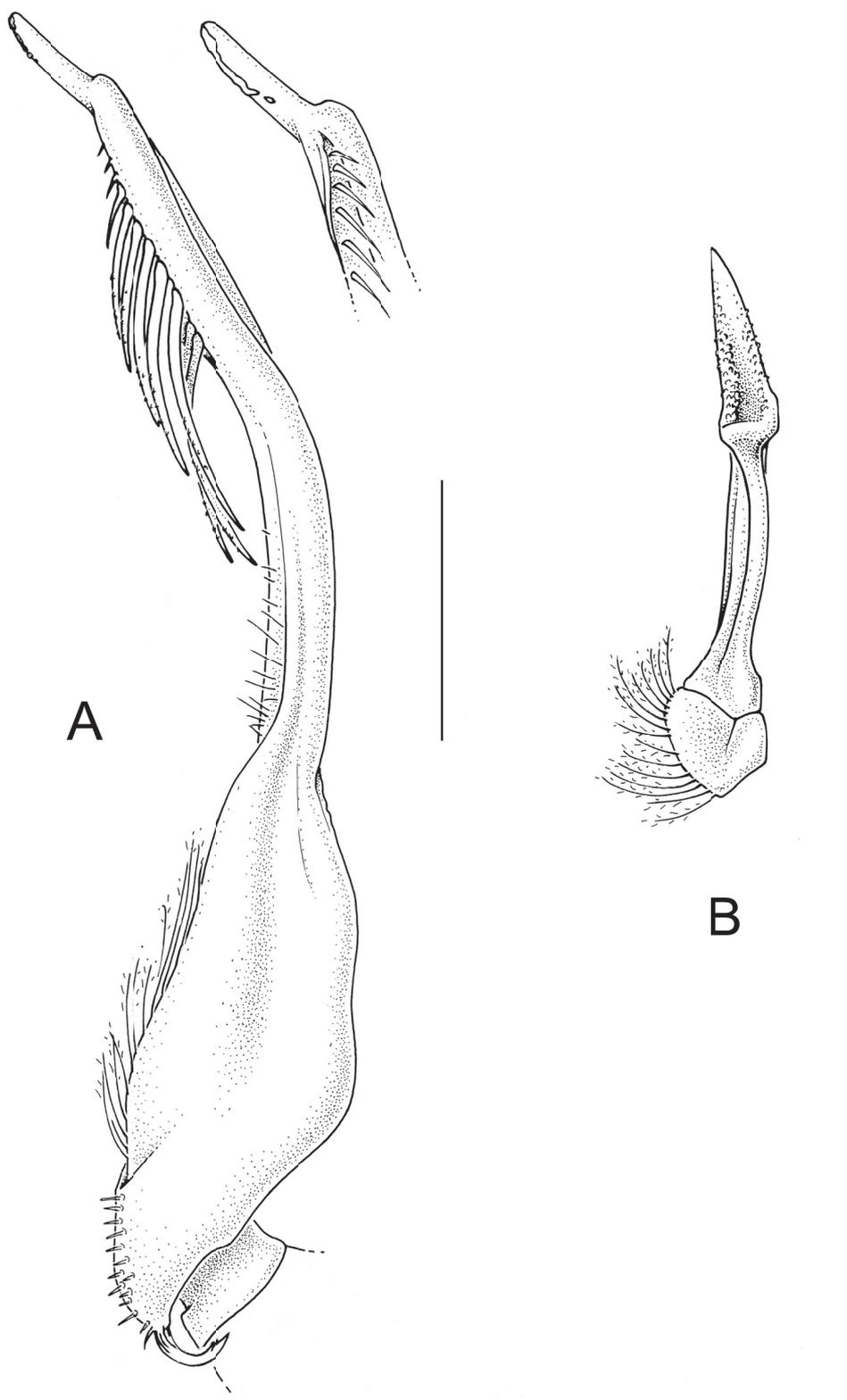
PAPUA NEW GUINEA: 6 ♂♂, cl 7.0–8.6 mm, 6 ♀♀, cl 5.5–10.3 mm, same data as holotype (MNHN-IU-2011-2763); 2 ♂♂, cl 8.8–9.1 mm, 1 ♀, cl 7.4 mm, SE of Manus I., BIOPAPUA Stn CP 3693, 02°10' S, 147°17' E, 300 m, 29 Sep. 2010 (MNHN-IU-2011-2209); 1 ♂, cl 8.5 mm, E of Manus I., BIOPAPUA Stn CP 3693, 02°10' S, 147°17' E, 300 m, 29 Sep. 2010 (MNHN-IU-2013-5995); 3 ♂♂, cl 6.7–8.9 mm, 1 ♀, cl 9.9 mm, SE of Manus I., BIOPAPUA Stn CP 3693, 02°10' S, 147°17' E, 300 m, 29 Sep. 2010 (MNHN-IU-2011-2107).

### Description

Carapace globose, pyriform, regions ill-defined. Dorsal surface of carapace set with flat-topped, fungiform granules, five granulate tubercles medially, intestinal tubercle largest, conical (Fig. 2). Postorbital region



**Fig. 2.** *Praebebalia fungifera* sp. nov., holotype, ♂ (8.8 mm) (MNHN-IU-2013-5996). Carapace and chelipeds, dorsal view. Papua New Guinea.



**Fig. 3.** *Praebebalia fungifera* sp. nov., holotype, ♂ ( 8.8 mm) (MNHN-IU-2013-5996). **A.** Left G1 (ventral view), distal part of left G1 (dorsal view). **B.** Left G2. Scales: A–B = 1.0 mm.

concave. Row of nearly contiguous agariciform granules medially to cardiac region. Intestinal region tumescent, faintly demarcated by shallow grooves. Front prominent, bilobed, frontal lobes tumid, widened anteriorly, minutely granular, setose. Eyes small. Orbital margin bifissured dorsally, V-shaped fossa laterally; infraorbital lobe spiniform, prominent. Antennules obliquely folded, basal antennular segment sealing lower antennular aperture. Antennae small, slender, basal antennal segment inserted in inner orbital hiatus. Buccal frame trapezoid, narrowing anteriorly. Third maxilliped bearing prominent agariciform granules; exognath slightly shorter, more slender than endognath, merus more than half as long as ischium. Anterior margin of efferent branchial channel unifissured, apparent in dorsal view, curved distad. Anterolateral margins of carapace with two subequal fungiferous tubercles; subhepatic margin visible in dorsal view, closely set anteriorly with agariciform granules, subhepatic tubercle fungiferous. Midlateral and posterolateral tubercles conical, set with fungiform granules, smaller, closer-set distally. Posterior margin of carapace bituberculate, tubercles conical, slender, proximally bearing fungiferous granules, distally upcurved. Chelipeds slender, subcylindrical, minutely granular, very long; merus in adult male 1.3× as long as carapace; propodus somewhat thicker distally, fingers two-thirds as long as propodus, tips crossing when closed. Ambulatory legs slender, short, dactyls long, setose. Thoracic sternites granular. Sternoabdominal cavity deep, elongate, nearly reaching buccal cavity, margins lamellate in female. Male abdomen with somites 3–5 fused, narrowing distally, basiolateral regions of fused somites inflated. Lateral margin of somite 6 ridged medially, fitting into groove at seam between plastron and sternite 5. Telson longer than sixth abdominal somite, bearing conical tooth basally. Adult female abdomen with somites 3–6 fused, greatly swollen, telson lacinate. G1 with stout basal stalk, flanged on interior margin, tapering, distally curved distad, preapically set with long, microscopically serrate setae, tip beak-like; G2 short, distally scoop-like (Fig. 3). Vulvae submedially on sternite 5, near suture 4/5; gonopore round, small, directed anteriorly, slightly raised rim posteriorly.

### Remarks

Of the 12 species assigned to the genus *Praebebalia* Rathbun, 1911, only two (*P. extensiva* Rathbun, 1911 and *P. septemspinosa* Sakai, 1983) were retained in the genus following revision and two were newly described (*P. madagascariensis* Galil, 2001 and *P. magna* Galil, 2001) (Galil 2001b). The genus is characterized by its subcircular, globose carapace, with tubercle medially on lateral margin; bilobed front; conical intestinal region; lateral angles of posterior margin of carapace prominently spinose; male abdomen with somites 3–5 fused; G1 elongate, preapically set with long setae; and very long chelipeds. *Praebebalia fungifera* sp. nov. differs from the western Indian Ocean species, *P. madagascariensis* (Madagascar), *P. magna* (Madagascar, Mozambique) and *P. extensiva* (Seychelles, Saya de Malha Bank), in its flat-topped, fungiform granules on the dorsal surface of the carapace and a spine on the posterolateral margin; it differs from *P. septemspinosa* (Philippines), with which it shares the latter character, in its shorter chelipeds (1.3 as compared to twice as long as carapace), and G1 relatively stout, slightly bent distad, preapically set with setae, tip beak-like (Fig. 3), as compared to the elongate, distally curved G1 of *P. septemspinosa*, preapically set with very long setae, tip hook-like (Galil 2001b: fig 4b–c).

### Distribution

Known only from the type location, Manus I., Papua New Guinea; 300 m.

Genus *Tanaoa* Galil, 2003

*Tanaoa nanus* Galil, 2003

*Tanaoa nanus* Galil, 2003: 403, figs lc, 3e–f (type locality: Vanuatu, 16°29.23' S, 167°58.70' E).

### Material examined

PAPUA NEW GUINEA: Seamounts nr Bougainville, BIOPAPUA Stn DW3748, 05°37' S, 154°01' E, 398–399 m, 12 Oct. 2010, 1 ♂, cl 15.5 mm (MNHN-IU-2011-5254). Madang, BIOPAPUA Stn CP 3708, 04°58' S, 145°50' E, 502–529 m, 2 Oct. 2010, 2 ♂♂, cl 12.1, 12.9 mm (MNHN-IU-2011-3547). SE of Manus I., BIOPAPUA Stn CP 3691, 02°11' S, 147°18' E, 499–517 m, 29 Oct. 2010, 2 ♂♂, cl 10.5, 13.7 mm (MNHN-IU-2011-2694). Astrolabe Bay, BIOPAPUA Stn CP 3713, 05°22' S, 145°50' E, 608–610 m, 5 Oct. 2010, 2 ♂♂, cl 23.0 mm and cl 14.5 mm (MNHN-IU-2011-2675).

### Distribution

Indonesia, Solomon Is, Vanuatu, New Caledonia, Wallis I.; 281–1250 m (Galil 2007).

Genus *Toru* Galil, 2003

*Toru pilus* (Tan, 1996)

*Randallia pila* Tan, 1996: 1051, fig. 4g–h, 71–n, 8a–f (type locality: Philippines, 13°12' N 123°50.30' E).

*Toru pilus* – Galil 2003: 412, figs 28, 5a–b.

### Material examined

PAPUA NEW GUINEA: SE of Manus I., BIOPAPUA Stn CP 3692, 02°10' S, 147°19' E, 408–448 m, 29 Sep. 2010, 5 ♂♂, cl 11.4–12.1 mm (MNHN-IU-2011-3439). SE of Manus I., BIOPAPUA Stn CP 3693, 02°10' S, 147°17' E, 300 m, 29 Sep. 2010, 3 ♂♂, cl 10.1–10.8 mm, 1 ♀, ovi, cl 11.1 mm (MNHN-IU-2011-2745); 2 ♂♂, cl 11.2–11.4 mm, 1 ♀, ovi, cl 11.9 mm (MNHN-IU-2011-2282). Lancasay Is., BIOPAPUA Stn DW 3732, 08°16' S, 150°29' E, 340–358 m, 9 Oct. 2010, 1 ♂, cl 9.2 mm (MNHN-IU-2011-1174).

### Distribution

Philippines, Solomon Is, Vanuatu, New Caledonia, Fiji; 234–620 m (Galil 2007).

Genus *Urashima* Galil, 2003

*Urashima pustuloides* (Sakai, 1961)

*Randallia pustuloides* Sakai, 1961: 135, pl. 3, fig. 4 (type locality: Tosa Bay, Shikoku I., Japan).

*Urashima pustuloides* – Galil 2003: 417, figs 2h, 5g–h.

### Material examined

PAPUA NEW GUINEA: Huon Gulf, BIOPAPUA Stn CP 3633, 06°54' S, 147°05' E, 395–406 m, 22 Aug. 2010, 1 ♀, cl 28.0 mm (MNHN-IU-2011-3314). Huon Gulf, BIOPAPUA Stn CP 3635, 07°29' S, 147°33' E, 280–302 m, 23 Aug. 2010, 1 ♂, cl 35.4 mm (MNHN-IU-2011-1073); 1 ♂, cl 36.0 mm (MNHN-IU-2011-1525). Huon Gulf, BIOPAPUA Stn CP 3645, 06°44' S, 147°50' E, 403–418 m, 24 Aug. 2010, 1 ♂, cl 41.0 mm, photo (MNHN-IU-2011-3864). SE of Manus I., BIOPAPUA Stn CP 3692, 02°10' S, 147°19' E, 408–448 m, 29 Sep. 2010, 1 ♂, cl 18.0 mm (MNHN-IU-2011-3460). SE of Manus I., BIOPAPUA Stn CP 3693, 02°10' S, 147°17' E, 300 m, 29 Sep. 2010, 1 juv. (MNHN-IU-2011-2751).

### Distribution

Indonesia, Philippines, Taiwan, Japan, Solomon Is, Australia; 50–839 m (Galil 2007; Galil & Ng 2007).

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