

Studies on Eumalacostraca: a homage to Masatsune Takeda

By

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(Editors)

CRUSTACEANA MONOGRAPHS, 17



BRILL

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PROFESSOR MASATSUNE TAKEDA

Prof. Masatsune Takeda was born in March 1942 at Hachioji, western Tokyo, the second son of a Japanese priest. He enjoyed collecting insects and freshwater crabs in the nearby forest in his boyhood and especially loved moths. He attended Yokohama National University, and originally intended to graduate to become a teacher of Biology in a junior high school. However, his life changed forever after he met the late Prof. Tune Sakai (1903-1986), the father of carcinology in Japan. His destiny was now intermingled with the taxonomy of Brachyura, and he subsequently registered at the graduate school of Kyushu University under the supervision of the late Prof. Sadayoshi Miyake (1908-1998), in the so-called “Miyake School”. At the “Miyake School”, he worked on his dissertation entitled “Studies on the Crustacea Brachyura from the Palau Islands”. His classmates included an impressive lineup of decapod carcinologists, many of whom in time would become renowned internationally, Drs. Katsushi Sakai, Keiji Baba, Yasuhiko Miya, Ken-Ichi Hayashi, Yukio Nakasone, Yoshihisa Hashiguchi, Takahiro Fujino, and Yu Hsiang-Ping (fig. 2). His years at the graduate school were enormously productive, resulting in some 23 scientific papers before he graduated with his doctoral degree in 1971. His scientific life got off to a promising start, but in the final year of his doctoral course an unfortunate motorcycle accident happened. This resulted in him having a complex leg fracture which caused him to stay a long time in hospital, two weeks before his scheduled wedding and required a metal bolt which activates the security alarm each time he passes through airport scanners. During his long stay in hospital, his devoted fiancée, Taeko, remained at his side, who later had a son with him. Not surprisingly, he named a beautiful leucosiid crab after his wife — *Philyra taekoeae* Takeda, 1972 (cover illustration). Today, he is also the proud grandfather of both a boy and a girl.

After recovering from his accident, he was awarded his doctoral degree and took his first job at Nihon University School of Medicine in 1971. This job did not last long — he was shortly after recruited to join the National Science Museum, Tokyo, as the first curator of Crustacea in 1973. He remained at the museum for the next 33 years, becoming its director in 1997. During this period, he took part in or led a number of field trips all over Japan and East Asia, and wrote a prodigious number of papers. He worked not only on



Fig. 1. Masatsune Takeda in the laboratory of the National Museum of Nature and Science, Tokyo, 12 July 2007. [Photo: K. Ichioka.]

brachyuran taxonomy, but also on their larvae, other crustaceans, fossils, and even micro-organisms. His powerful work was supported by cigarettes (non-smoking now), sweets, beer and his family (including his dog). He retired from the museum in 2006 at the mandatory retirement age of 64, but immediately moved to Teikyo Heisei University as a Professor of Biology. On March 2012 he reached his 70th birthday and finally retired from the University. Today, he continues to work at the National Museum of Nature and Science, Tsukuba, as an Honorary Curator. Regardless of his position and retirement, his love for crustaceans has never abated, and he continues to work as actively as ever on their taxonomy.

TEACHING

Takeda-sensei (“sensei” is an honorific term for teacher or senior scientist in Japan) was active not only in research but also in education. He helped train many young scientists, such as Kooichi Konishi, Yukio Hanamura, Masakazu



Fig. 2. Members of the “Miyake School” in the Zoological Laboratory of Kyushu University, 1966; upper, from left to right: Ken-Ichi Hayashi, Takahiro Fujino, Yasuhiko Miya, Masatsune Takeda and Yu Hsiang-Ping; bottom, from left to right: Ritsuko Kuraki (secretary), Teruaki Uchida (ex. Professor of Kyushu University), Yong Ock Lee. [Photo: K. Baba.]

Aoki, Tomoyuki Komai, Kazuyoshi Hashizume, Junji Okuno, Masayuki Osawa, and Kouki Fukuoka. He also worked as an adjunct lecturer at various universities on Systematic Zoology and Science History over a long period of time. From 1995 to 2003, he was also an adjunct professor at The University of Tokyo, helping to train a new generation of invertebrate taxonomists. He was a good teacher, encouraging his students by helpful and precise comments but always with a warm and gentle smile. Unfortunately, during this period, he developed diabetes. As a result, he lost a lot of weight and his hair turned white, with even his characteristic smile disappearing. Nevertheless, his strong fighting spirit helped him eventually to overcome his illness. Even during this testing time, he continued helping and advising his students. Under his supervision, six taxonomists graduated with doctoral degrees — Wataru Abe (Tardigrada), Tomomi Saito (Spongicolidae), Hironori Komatsu (Leucosiidae), Masako Mitsuhashi (Pontoniinae), Yuji Ise (Porifera), and Sayumi Hoshino (Porifera). In addition to his professional duties, he was also tireless in trying to “diffuse” carcinology to the general public including children through



Fig. 3. Masatsune Takeda on field trips. Top left, Rebun Island, northern Hokkaido, searching for freshwater crabs, 1991 [Photo: T. Kubodera]; top right, trawling on board of the FV *Seishin Maru*, Suruga Bay, 1993 [Photo: H. Saito]; bottom left, Nha Trang, Vietnam, 2002 [Photo: T. Kubodera]; bottom right, Iloilo Island, Philippines, 2005.

producing number of guidebooks, general scientific and pictorial books, newspaper columns, popular magazines, as well as helping various TV programs and so on.

HIS RESEARCH FIELD

Takeda-sensei has always focused his energy on alpha-level taxonomic work of crabs. This was intrinsically linked with one of the main purposes of the national museum, which was to inventorise the biodiversity of Japan. As part of the museum's long term project "Natural History Researches of the Japanese Islands" in the years 1967-2001, he surveyed almost all over the country (1973 to 2001), exploring Tsushima Islands, Tanegashima Island, Ogasawara Islands, Izu Islands, Kii Peninsula, Sea of Japan, Amami Islands, Soya Strait, eastern Hokkaido, Onagawa Bay, East China Sea, Seto Inland Sea, Kanto Plain and western Sagami Bay. In 1993, he and his colleagues started another project "Study on Deep-sea Fauna and Conservation of Deep-sea

Ecosystem”, resulting in four-year long studies of Suruga Bay, Tosa Bay and Nansei Islands. He also led a project titled “Study on Environmental Changes in the Sagami Sea and Adjacent Coastal Area with Time Serial Comparison of Fauna and Flora” between 2001 and 2005. Throughout his long career, he also investigated the crustacean fauna of various East Asian countries like the Philippines, Malaysia, Thailand, Taiwan, Indonesia, China and Vietnam.

HIS IMPORTANT COLLABORATORS

Since Takeda-sensei has collaborated with so many researchers over the years, it is difficult to give a complete or fair summary. Some are highlighted below.

The late Sadayoshi Miyake, the founder of the “Miyake School”, supervised his doctoral dissertation and published many papers with him on the taxonomy of all sorts of crabs, notably on xanthoids and pilumnoids. His old friend, Yukio Nakasone, a senior student of the “Miyake School”, co-authored a number of papers on the taxonomy of Okinawan crabs. He also collaborated with Takao Yamaguchi on the morphology of the cheliped of fiddler crabs, whilst Yôji Kurata, a specialist on the fauna of the Ogasawara Islands, provided him with large numbers of crab specimens collected from the Ogasawara Islands, including from the gut contents of fishes. The late Seiji Nagai, a prolific amateur collector of crabs and shells, also gave Takeda-sensei many uncommon crabs he had dredged by himself from various places. Ienori Fujiyama and Kazuo Masubuchi are frequent collaborators on fossil crabs. Yôichi Tamura provided him with a good collection of cryptochirid crabs, revealing its diversity in Japan. Yukio Hanamura collaborated with him on the taxonomic study on shrimps, whilst Kooichi Konishi also collaborated mostly on the taxonomy of pinnotherids. Tomoyuki Komai, current-day a leading Japanese carcinologist on many decapod groups, wrote his first paper with Takeda-sensei and has since collaborated on the taxonomy of various shrimps and hermit crabs. Junji Okuno was his first “unofficial” student working on the systematics of hinge-beak shrimps and hermit crabs and Masahiro Marumura, a high school teacher in Wakayama Prefecture, is a good “crab hunter” at Kii Peninsula, and contributed to many important Japanese brachyuran discoveries through his close collaboration with Takeda-sensei. Wataru Abe was one of his first graduate students, but studying tardigrades, whilst Masako Mitsuhashi studied pontoniine shrimps with Takeda-sensei. Another student, Hironori Komatsu worked on leucosiid crabs. Tomomi Saito, a biologist based

at Nagoya Aquarium, did his doctoral dissertation on the taxonomy, phylogeny and biology of spongicolid shrimps with Takeda-sensei, whilst Masayuki Osawa was a postdoctoral fellow at the museum, working with him on the taxonomy of hermit crabs. Masaaki Tanaka collaborated on limnological fauna and flora of microorganisms in the Imperial Palace, Tokyo.

Takeda-sensei's collaborations were not restricted to Japan. Bella Galil from the National Institute of Oceanography in Israel, collaborated with him on several occasions on the systematics of trapeziid, xanthoid, pilumnoid and calappid crabs. Marivene Manuel-Santos from the National Museum of the Philippines was a close collaborator on many groups of crabs, notably deep-water taxa from Balicasag. Richard ("Rick") Webber carried out a number of taxonomic studies with him on New Zealand crabs. Peter Ng from the National University of Singapore has remained a close ally for over two decades, and has actively collaborated with him on freshwater crabs as well as other several other groups. Their shared passion for crabs often resulted in extremely animated discussions whenever they met, discussions which the editors have witnessed with pleasure!

PUBLICATION

Takeda-sensei started his publication career in 1967 with a paper on some rare species of xanthid crabs. Following this, he so far has produced a total of 323 papers over his career span of 45 years. Two years stand out. In 1969, he wrote seven papers totaling 204 pages and treated 14 new taxa. The year 2000 was perhaps his most productive one, publishing 21 papers, 212 pages and four new taxa. Over those 45 years, he described 27 new genera and 204 new species, including seven fossil ones (table I). Most of them are crabs, but he also named 14 caridean, 18 anomuran, one amphipod and two tardigrade taxa. In spite of this enormous output, only 3 genera and 5 species (excluding what is done in this volume, see table II) have so far been named after him. A rather small amount considering his valuable contribution to carcinology. It is therefore our great pleasure that a further two new genera and 20 new species are named after Takeda-sensei in this volume.

HIRONORI KOMATSU
JUNJI OKUNO
KOUKI FUKUOKA

TABLE I
Taxa named by Masatsune Takeda

CARIDEA

Genus: 1

Bathystylocdactylus Hanamura & Takeda, 1996

Species: 13

Palaemon ogasawaraensis Kato & Takeda, 1981

Paracrangon okutanii Ohé & Takeda, 1986

Sclerocrangon unidentata Komai & Takeda, 1989

Macrobrachium niphanae Shokita & Takeda, 1989

Rhynchocinetes conspicuocellus Okuno & Takeda, 1992a

Glyphocrangon hakuhoae Takeda & Hanamura, 1994

Bathystylocdactylus inflatus Hanamura & Takeda, 1996

Glyphocrangon spinosissima Brand & Takeda, 1996

Coralliocaris tridens Mitsuhashi, Fujino & Takeda, 2001

Pandalopsis gibba Komai & Takeda, 2002

Lebbeus nudirostris Komai & Takeda, 2004a

Coralliocaris labyrinthica Mitsuhashi & Takeda, 2008

Coralliocaris sandyi Mitsuhashi & Takeda, 2008

ANOMURA

Species: 18

Paralomis medipacifica Takeda, 1974b

Paralomis cristata Takeda & Ohta, 1979

Paralomis truncatispinosa Takeda & Miyake, 1980

Porcellanopagurus truncatifrons Takeda, 1981c

Paragalathea miyakoensis Takeda & Fujiyama, 1983 (fossil)

Paralomis shinkaimaruuae Takeda, in Takeda & Hatanaka, 1984

Paralomis kyushupalauensis Takeda, 1985a

Porcellanopagurus nihonkaiensis Takeda, 1985b

Porcellanopagurus belauensis Suzuki & Takeda, 1987

Paralomis jamsteci Takeda & Hashimoto, 1990

Discorsopagurus cavicola Komai & Takeda, 1996

Lithodes ceramensis Takeda & Nagai, 2004

Catapaguroides iejimensis Osawa & Takeda, 2004

Catapaguroides kasei Osawa & Takeda, 2004

Bathynarius izuensis Komai & Takeda, 2004b

Bathypaguroopsis carinatus Komai & Takeda, 2004b

Cestopagurus puniceus Komai & Takeda, 2005

Paralomis danida Takeda & Bussarawit, 2007

BRACHYURA

Genera: 26

Prosphorachaeus Takeda & Miyake, 1969b

Neommatocarcinus Takeda & Miyake, 1969d

Genkaia Miyake & Takeda, 1970a

Libystes Miyake & Takeda, 1970b

Zehntneria Takeda, 1972b = *Zehntneriana* Ng & Takeda, 2010

TABLE I
(Continued)

Glyptocarcinus Takeda, 1973a
Nanopilumnus Takeda, 1974c
Xenograpsus Takeda & Kurata, 1977a
Fizesereneia Takeda & Tamura, 1980b
Hiroia Takeda & Tamura, 1981c
Utinomia Takeda & Tamura, 1981c, preoccupied by *Utinomia* Tomlinson, 1963
Palmyria Galil & Takeda, 1986
Carpoporoides Takeda & Nagai, 1986 = *Hepatoporus* Serène, 1984
Gorgonariana Galil & Takeda, 1988
Lentilumnus Galil & Takeda, 1988
Serenolumnus Galil & Takeda, 1988
Xlumnus Galil & Takeda, 1988
Utinomiella Kropp & Takeda, 1988
Ovitamon Ng & Takeda, 1992c
Insulamon Ng & Takeda, 1992c
Mindoron Ng & Takeda, 1992c
Skelosophusa Ng & Takeda, 1994
Atoportunus Ng & Takeda, 2003
Nobiliella Komatsu & Takeda, 2003a
Zehntneriana Ng & Takeda, 2010
Pilomedaeus Takeda & Komatsu, 2011
 Species: 172
Chlorodiella ohshimai Miyake & Takeda, 1967
Chlorodiella corallicola Miyake & Takeda, 1968
Pilodius serenei Miyake & Takeda, 1968 = *Pilodius granulatus* Stimpson, 1858
Pilumnus senahai Takeda & Miyake, 1968b
Pilumnus annamensis Takeda & Miyake, 1968b
Pilumnus ikedai Takeda & Miyake, 1968b
Pilumnus guinotae Takeda & Miyake, 1968b
Paractaeopsis quadriareolata (Takeda & Miyake, 1968c) [*Actaea*]
Vellodius etisoides (Takeda & Miyake, 1968c) [*Pilodius*]
Etisus sakaii Takeda & Miyake, 1968d
Achaeus boninensis Miyake & Takeda, 1969
Zalasius imajimai Takeda & Miyake, 1969b
Oncinopus angustifrons Takeda & Miyake, 1969b
Achaeus varians Takeda & Miyake, 1969b
Maja sakaii Takeda & Miyake, 1969b
Actumnus similis Takeda & Miyake, 1969c
Viaderiana incerta (Takeda & Miyake, 1969c) [*Parapilumnus*]
Nanopilumnus hondai (Takeda & Miyake, 1969c) [*Parapilumnus*]
Nanopilumnus coralliophilus (Takeda & Miyake, 1969c) [*Parapilumnus*]
Nectocarcinus bennetti Takeda & Miyake, 1969d
Microcassiope orientalis Takeda & Miyake, 1969e
Zehntneriana amakusae (Takeda & Miyake, 1969f) [*Litocheira*]
Genkaia gordonae Miyake & Takeda, 1970a

TABLE I
(Continued)

<i>Xenophthalmus wolffi</i> Takeda & Miyake, 1970a
<i>Libystes lepidus</i> Miyake & Takeda, 1970b
<i>Pilumnus ohshimai</i> Takeda & Miyake, 1970b
<i>Pilumnus parapilumnoides</i> Takeda & Miyake, 1970b
<i>Cosmonotus genkaiae</i> Takeda & Miyake, 1970c
<i>Tunedromia yamashitai</i> (Takeda & Miyake, 1970c) [<i>Petalomera</i>]
<i>Lybia edmondsoni</i> Takeda & Miyake, 1970d
<i>Thalamita miyakei</i> Takeda, 1971
<i>Etisus odhneri</i> Takeda, 1971
<i>Camptandrium rathbunae</i> Takeda, 1971 = <i>Takedellus ambonense</i> (Serène & Moosa, 1971)
<i>Parasesarma palauense</i> Takeda, 1971
<i>Neorhynchoplax inermis</i> Takeda & Miyake, 1971a
<i>Halicarcinus hondai</i> (Takeda & Miyake, 1971b) [<i>Rhynchoplax</i>]
<i>Halicarcinus keijibabai</i> (Takeda & Miyake, 1971b) [<i>Rhynchoplax</i>]
<i>Scutumara miyakei</i> (Nakamura & Takeda, 1972) [<i>Pseudograpsus</i>]
<i>Philyra taekoa</i> Takeda, 1972a
<i>Zehntneriana miyakei</i> (Takeda, 1972b) [<i>Zehntneria</i>]
<i>Pilumnus habei</i> Takeda & Miyake, 1972a
<i>Cancer sakaii</i> Takeda & Miyake, 1972c (unnecessary replacement name for <i>Cancer anaglyptus</i> (Balss, 1922) = <i>Platapistoma anaglyptum</i> Balss, 1922)
<i>Pilumnus balssi</i> Takeda & Miyake, 1972c
<i>Stindromia kosugei</i> (Takeda & Miyake, 1972c) [<i>Petalomera</i>]
<i>Ebalia cryptocnemoides</i> Takeda & Miyake, 1972c
<i>Ebalia sakaii</i> Takeda & Miyake, 1972c
<i>Pugettia marissinica</i> Takeda & Miyake, 1972c
<i>Typhlocarcinops genkaiae</i> Takeda & Miyake, 1972c
<i>Glyptocarcinus lophopus</i> Takeda, 1973a
<i>Sestrostoma toriumii</i> (Takeda, 1974a) [<i>Acmaeopleura</i>]
<i>Umalia horikoshii</i> (Takeda, 1975a) [<i>Ranilia</i>]
<i>Aethra seychellensis</i> Takeda, 1975b
<i>Xanthias rathbunae</i> Takeda, 1976a
<i>Dromidiopsis lethrinusae</i> (Takeda & Kurata, 1976a) [<i>Sphaerodromia</i>]
<i>Takedromia yoshidai</i> (Takeda & Kurata, 1976b) [<i>Cryptodromia</i>]
<i>Urnalana insularis</i> (Takeda & Kurata, 1976b) [<i>Leucosia</i>]
<i>Metadynomene devaneyi</i> (Takeda, 1977a) [<i>Dynomene</i>]
<i>Pseudophilyra dinops</i> Takeda, 1977b = <i>Pseudophilyra tridentata</i> Miers, 1879
<i>Pseudolambrus saishoi</i> Takeda, 1977b
<i>Ebalia humilis</i> Takeda, 1977d
<i>Praebebalia taeniata</i> Takeda, 1977d
<i>Osachila expansa</i> Takeda, 1977d
<i>Actumnus setosiareolatus</i> Takeda, 1977d
<i>Vellumnus pygmaeus</i> (Takeda, 1977d) [<i>Planopilumnus</i>]
<i>Actumnus marissinicus</i> Takeda & Kim, 1977
<i>Zehntneriana novaeinsulicola</i> (Takeda & Kurata, 1977a) [<i>Zehntneria</i>]

TABLE I
(Continued)

<i>Xenograpsus novaainsularis</i> Takeda & Kurata, 1977a
<i>Grypachaeus tenuicollis</i> Takeda, 1978b
<i>Pseudocryptochirus ishigakiensis</i> Takeda & Tamura, 1979
<i>Ranidina teshimai</i> Fujiyama & Takeda, 1980 (fossil)
<i>Oxypleurodon coralliophilum</i> (Takeda, 1980a) [<i>Sphenocarcinus</i>]
<i>Calocarcinus habei</i> Takeda, 1980a
<i>Hypocolpus kurodai</i> Takeda, 1980c
<i>Lamoha williamsi</i> (Takeda, 1980d) [<i>Hypsophrys</i>]
<i>Calocarcinus lewinoehni</i> Takeda & Galil, 1980
<i>Fizesereneia ishikawai</i> Takeda & Tamura, 1980b
<i>Cyonomus umitakae</i> Takeda, 1981b
<i>Dacryomaia japonica</i> (Takeda & Tamura, 1981b) [<i>Favicola</i>]
<i>Sundathelphusa cavernicola</i> (Takeda, 1983b) [<i>Archipelothelphusa</i>]
<i>Homolopsis hachiyai</i> Takeda & Fujiyama, 1983 (fossil)
<i>Necrocarcinus undecimtuberculata</i> Takeda & Fujiyama, 1983 (fossil)
<i>Eupilumnus kiiensis</i> (Takeda & Nagai, 1983) [<i>Globopilumnus</i>]
<i>Lithoscaptus grandis</i> (Takeda & Tamura, 1983) [<i>Cryptochirus</i>]
<i>Cryptochirus planus</i> (Takeda & Tamura, 1983) [<i>Favicola</i>]
<i>Ptychognathus capillidigitatus</i> Takeda, 1984
<i>Achaeus nomurai</i> Takeda & Fujiyama, 1984 (fossil)
<i>Lophoplax sextuberculata</i> Takeda & Kurata, 1984
<i>Tymolus ingens</i> Takeda & Tomida, 1984 (fossil)
<i>Tymolus itoigawai</i> Takeda & Tomida, 1984 (fossil)
<i>Hepatoporus distinctus</i> (Takeda & Nagai, 1986) [<i>Carpoporoides</i>]
<i>Varuna yui</i> Hwang & Takeda, 1986
<i>Miersiella cavifrons</i> Takeda, 1989c
<i>Pedroplax megalops</i> (Takeda, 1989c) [<i>Psopheticus</i>]
<i>Calappa quadrimaculata</i> Takeda & Shikatani, 1990
<i>Cyonomus hakuhoae</i> Takeda & Moosa, 1990
<i>Dairoides seafdeci</i> Takeda & Ananpongsook, 1991
<i>Macrophthalmus (Macrophthalmus) serenei</i> Takeda & Komai, 1991
<i>Philyra nishihirai</i> Takeda & Nakasone, 1991
<i>Geosesarma protos</i> Ng & Takeda, 1992a
<i>Johora hoiseni</i> Ng & Takeda, 1992b
<i>Parathelphusa malaysiana</i> Ng & Takeda, 1992b
<i>Ovitamon arcanum</i> Ng & Takeda, 1992c
<i>Ovitamon tomaculum</i> Ng & Takeda, 1992c
<i>Insulamon unicorn</i> Ng & Takeda, 1992c
<i>Mindoron pala</i> Ng & Takeda, 1992c
<i>Isolapotamon spatha</i> Ng & Takeda, 1992c
<i>Parathelphusa saginata</i> Ng & Takeda, 1993a
<i>Parathelphusa rasilis</i> Ng & Takeda, 1993a
<i>Parathelphusa nana</i> Ng & Takeda, 1993a
<i>Parathelphusa balabac</i> Ng & Takeda, 1993a

TABLE I
(Continued)

<i>Parathelphusa parma</i> Ng & Takeda, 1993a
<i>Parathelphusa mindoro</i> Ng & Takeda, 1993a
<i>Carupa ohashii</i> Takeda, 1993b
<i>Ostracotheres tomentipes</i> Takeda & Konishi, 1994
<i>Neorhynchoplax okinawaensis</i> (Nakasone & Takeda, 1994) [<i>Elamenopsis</i>]
<i>Skelosophusa prolixa</i> Ng & Takeda, 1994
<i>Skelosophusa eumeces</i> Ng & Takeda, 1994
<i>Raylilia uenoi</i> (Takeda, 1995b) [<i>Arcania</i>]
<i>Drachiella caelata</i> Takeda & Tachikawa, 1995
<i>Atergatis interruptus</i> Takeda & Marumura, 1997b
<i>Lipkembra corallina</i> (Takeda & Marumura, 1997b) [<i>Meriola</i>]
<i>Lamarckopilumnus izuogawarensis</i> (Takeda & Ng, 1997) [<i>Pilumnus</i>]
<i>Nursia alata</i> Komatsu & Takeda, 1999
<i>Clistocoeloma amamaparense</i> Rahayu & Takeda, 2000
<i>Cryptocnemus trigonus</i> Komatsu & Takeda, 2000
<i>Gandalfus yunohana</i> (Takeda, Hashimoto & Ohta, 2000) [<i>Austinograea</i>]
<i>Rochinia kotakae</i> Takeda, 2001a
<i>Pilumnopus riui</i> Takeda, 2001b
<i>Merocryptoides ohtsukai</i> Komatsu & Takeda, 2001a
<i>Merocryptoides peteri</i> Komatsu & Takeda, 2001a
<i>Nursia guinotae</i> Komatsu & Takeda, 2001b
<i>Sundathelphusa hades</i> Takeda & Ng, 2001
<i>Pseudactaea multiareolata</i> Takeda & Marumura, 2002
<i>Atoportunus gustavi</i> Ng & Takeda, 2003
<i>Atoportunus pluto</i> Ng & Takeda, 2003
<i>Atoportunus dolichopus</i> Takeda, 2003
<i>Viaderiana kasei</i> Takeda & Manuel, 2003
<i>Goneplacoides marivenae</i> (Komatsu & Takeda, 2004) [<i>Goneplax</i>]
<i>Goneplax megalops</i> Komatsu & Takeda, 2004 = <i>Goneplacoides marivenae</i> (Komatsu & Takeda, 2004)
<i>Mursia baconaua</i> Galil & Takeda, 2004
<i>Mursia buwaya</i> Galil & Takeda, 2004
<i>Mursia mameleu</i> Galil & Takeda, 2004
<i>Mursia diwata</i> Galil & Takeda, 2004
<i>Arcania marinduquensis</i> Komatsu, Manuel & Takeda, 2004
<i>Mathildella kyushupalauensis</i> Takeda & Watabe, 2004
<i>Rochinia daiyuae</i> Takeda & Komatsu, 2005
<i>Mursia orientalia</i> Takeda & Galil, 2005
<i>Raylilia intermedia</i> Komatsu, Manuel & Takeda, 2005
<i>Tokoyo trilobata</i> Komatsu, Manuel & Takeda, 2005 = <i>Tokoyo eburnea</i> (Alcock, 1896)
<i>Achaeus kermadecensis</i> Webber & Takeda, 2005
<i>Heteronucia toyoshioae</i> Komatsu & Takeda, 2005
<i>Heteronucia granulata</i> Komatsu & Takeda, 2005

TABLE I
(Continued)

Caphyra acheronae Takeda & Webber, 2006
Liomera yaldwyni Takeda & Webber, 2006
Platypodia delli Takeda & Webber, 2006
Xanthias dawsoni Takeda & Webber, 2006
Actumnus griffini Takeda & Webber, 2006
Ebalia webberi Komatsu & Takeda, 2007
Pseudolambrus constrictus Takeda & Webber, 2007
Rochinia planirostris Takeda, 2009
Pinnixa lata Komatsu & Takeda, 2009a
Heteronucia fujitai Komatsu & Takeda, 2009b
Huenia nagaii Takeda & Marumura, 2010
Huenia toyoshioae Takeda & Marumura, 2010
Notonyx angulatus Naruse & Takeda, 2010
Catoptrus madingondonensis Takeda, 2010
Singhaplax danielae Takeda & Komatsu, 2010a
Microgoneplax guinotae Takeda & Komatsu, 2010a
Gaillardielus holthuisi Takeda & Komatsu, 2010b
Pilomedaeus okutanii Takeda & Komatsu, 2011
Meractaea takunan Komatsu & Takeda, 2011

AMPHIPODA

Species: 1

Noxenodice hoshiaii Takeuchi & Takeda, 1992

TARDIGRADA

Species: 2

Pseudechiniscus asper Abe, Utsugi & Takeda, 1998

Calcarobiotus imperialis Abe & Takeda, 2000a

TABLE II
Taxa named after Masatsune Takeda

Genera: 3

Takedana Davie, 1989

Takedromia McLay, 1993

Takedellus C. G. S. Tan & Ng, 1999

[+ 2 new genera in this volume]

Species: 5

Tiarinia takedai Griffin & Tranter, 1986

Typhlocarcinops takedai Ng, 1987

Pilumnus takedai Ng, 1988

Gonodactylus takedai Moosa, 1989 = *Gonodactylaceus falcatus* (Forskål, 1775)

Tridentella takedai Nunomura, 2006

[+ 20 new species in this volume]

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