
List

List of the type-specimens of sawflies (Insecta: Hymenoptera) described by R. Inomata in the Museum of Nature and Human Activities, Hyogo

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Abstract

Twenty-one holotypes and 327 paratypes of sawflies of the genera *Pachyprotasis* Hartig and *Tenthredo* Linnaeus (Tenthredinidae) described by Ryoiti Inomata are listed. They are all kept in the Museum of Nature and Human Activities, Hyogo.

Key words: type-specimens, sawflies, *Pachyprotasis*, *Tenthredo*, Inomata's Collection.

Introduction

The Museum of Nature and Human Activities, Hyogo (MNHAH) received a large collection of insects from Ms. Mitsuko Inomata in 1995. This collection (Inomata's Collection) was made by the late Dr. Ryoiti Inomata (1924 - 1995) of Naniwa College, Osaka, Japan. This collection is composed of about 18,000 insect specimens and includes various groups of insect such as butterflies and beetles. The main part of this collection, however, is composed of sawflies.

Dr. Inomata mainly worked on the systematics and biology of the sawflies of the genus *Pachyprotasis* Hartig. When he started his systematic studies of the genus, about 20 species were known to occur in Japan. He carefully studied the genus using not only adult morphology but also larval morphology, ovipositing behavior and host preference of the larvae. He found out that at least 69 species were distributed in Japan from Hokkaido to Kagoshima Prefecture, of which 52 species were new to science. He described 20 species

of this genus as new to science (1970, 1984). The remaining 32 species were left undescribed. He also described one new species of *Tenthredo* Linnaeus in 1967. Inomata's Collection includes 21 holotypes and 327 paratypes of sawflies described by Inomata.

In this short report we list all these type specimens of sawflies now preserved in the Museum of Nature and Human Activities, Hyogo.

The species are listed in order of appearance in the papers of Inomata with a register-number in MNHAH.

Acknowledgements

We thank Ms. Mitsuko Inomata for her donation of this valuable collection to MNHAH. We also thank Ms. Masami Hara and Ms. Chizuyo Katsumata for their help in various ways in preparing the manuscript of this paper.

List of Type Specimens

Tenthredo okamotoi 1967 [B1-297257]

HOLOTYPE: ♀, Emerged from the larva collected at Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1966, /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297258]

PARATYPE: ♀, Emerged from the larvae collected at Mt. Sengamine, Hyogo Pref., Japan, 26.IV.1966, /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297259]

PARATYPE: ♀, Emerged from the larvae collected at Mt. Sengamine, Hyogo Pref., Japan, 26.IV.1966, /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297260]

PARATYPE: ♀, Emerged from the larvae collected at Mt. Sengamine, Hyogo Pref., Japan, 29.IV.1966, /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297261]

PARATYPE: ♀, Mt. Hakusan, Hyogo Pref., Japan, 25.V.1961, Inomata leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297262]

PARATYPE: ♀, Mt. Hakusan, Hyogo Pref., Japan, 25.V.1961, Inomata leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297263]

PARATYPE: ♀, Onzui, Hyogo Pref., Japan, 24.V.1964, K. Okamoto leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297264]

PARATYPE: ♀, Onzui, Hyogo Pref., Japan, 24.V.1964, K. Okamoto leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297265]

PARATYPE: ♀, Onzui, Hyogo Pref., Japan, 21.VI.1964, Inomata leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297266]

PARATYPE: ♀, Mt. Mikunidake, Hyogo Pref., Japan, 6.V.1965, M. Fujii leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Tenthredo okamotoi 1967 [B1-297267]

PARATYPE: ♀, Mt. Mikunidake, Hyogo Pref., Japan, 6.VI.1966, Inomata leg /Kontyu. Tokyo, 35, No.1 (1967): p.51

Pachyprotasis zukaensis 1970 [B1-296911]

HOLOTYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296912]

ALLOTYPE: ♂, From the larva collected at Takarazuka, Hyogo Pref., Japan, 18.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296913]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 18.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296914]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 18.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296915]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296916]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296917]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296918]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296919]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296920]

PARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296921]

PARATYPE: ♀, From the larva collected at Takarazuka, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296922]

PARATYPE: ♀, From the larva collected at Takarazuka, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296923]

PARATYPE: ♀, From the larva collected at Takarazuka, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296924]

PARATYPE: ♀, From the larva collected at Takarazuka, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296925]

PARATYPE: ♀, From the larva collected at Takarazuka, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis zukaensis 1970 [B1-296926]

PARATYPE: ♀, From the larva collected at Takarazuka, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.4

Pachyprotasis tanakai 1970 [B1-296927]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 28.IV.1967. /Mushi. Fukuoka, 43 (1970): p.6

Pachyprotasis tanakai 1970 [B1-296928]

ALLOTYPE: ♂, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 27.IV.1967. /Mushi. Fukuoka, 43 (1970): p.6

Pachyprotasis tanakai 1970 [B1-296929]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 24.IV.1967. /Mushi. Fukuoka, 43 (1970): p.6

Pachyprotasis hiyodorii 1970 [B1-296930]

HOLOTYPE: ♀, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 15.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296931]

ALLOTYPE: ♂, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 21.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296932]

PARATYPE: ♀, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 22.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296933]

PARATYPE: ♂, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 23.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296934]

PARATYPE: ♀, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 23.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296935]

PARATYPE: ♀, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 25.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296936]

PARATYPE: ♀, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 29.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis hiyodorii 1970 [B1-296937]

PARATYPE: ♀, Emerged from the larva collected at Mt. Kasagatayama, Hyogo Pref., Japan, 30.IV.1967. /Mushi. Fukuoka, 43 (1970): p.7

Pachyprotasis sawadai 1970 [B1-296938]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 23.IV.1967. /Mushi. Fukuoka, 43 (1970): p.8

Pachyprotasis sawadai 1970 [B1-296939]

ALLOTYPE: ♂, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 22.IV.1967. /Mushi. Fukuoka, 43 (1970): p.8

Pachyprotasis sawadai 1970 [B1-296940]

PARATYPE: ♀, From the larva, on Mt. Kasagatayama, Hyogo Pref., Japan, 25.IV.1967. /Mushi. Fukuoka, 43 (1970): p.8

Pachyprotasis okutanii 1970 [B1-296941]

HOLOTYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 16.IV.1963. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296942]

ALLOTYPE: ♂, From the larva, mother of which was collected at Takarazuka, Hyogo Pref., Japan, 5.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296943]

RARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 31.III.1963. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296944]

RARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 16.IV.1963. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296945]

RARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 16.IV.1963. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296946]

RARATYPE: ♀, Emerged from the larva collected at Nishiwaki, Hyogo Pref., Japan, 16.IV.1963. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296947]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 6.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296948]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 5.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296949]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 5.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296950]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 6.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296951]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 6.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296952]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 7.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296953]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 7.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296954]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 7.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296955]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 7.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296956]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 7.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296957]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 8.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296958]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 8.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296959]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 8.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296960]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 8.IV.1967. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296961]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 8.IV.1967. / Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296962]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 10.IV.1967. / Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296963]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 10.IV.1967. / Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296964]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 10.IV.1967. / Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296965]

RARATYPE: ♂, From the larva which are the sibling of Allotype and another brood, Hyogo Pref., Japan, 10.IV.1967. / Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296966]

RARATYPE: ♀, Mothers of allotype and above paratypes, emerged in 1967, Takarazuka, Hyogo Pref., Japan, 23.IV.1966. Inomata leg. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis okutanii 1970 [B1-296967]

RARATYPE: ♀, Mothers of allotype and above paratypes, emerged in 1967, Takarazuka, Hyogo Pref., Japan, 4.V.1966. Inomata leg. /Mushi. Fukuoka, 43 (1970): p.9

Pachyprotasis asteris 1970 [B1-296968]

HOLOTYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296969]

ALLOTYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296970]

PARATYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296971]

PARATYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296972]

PARATYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 11.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296973]

PARATYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 14.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296974]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296975]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 14.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296976]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1966. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296977]

PARATYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 15.IV.1966. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296978]

PARATYPE: ♀, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296979]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296980]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296981]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis asteris 1970 [B1-296982]

PARATYPE: ♂, Emerged from the larva collected at Takarazuka, Hyogo Pref., Japan, 10.IV.1967. /Mushi. Fukuoka, 43 (1970): p.12

Pachyprotasis hayasuensis 1970 [B1-296983]

HOLOTYPE: ♀, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 23.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296984]

PARATYPE: ♀, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 23.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296985]

PARATYPE: ♀, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 23.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296986]

PARATYPE: ♀, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 26.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296987]

PARATYPE: ♀, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 26.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296988]

PARATYPE: ♂, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 23.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296989]

PARATYPE: ♂, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 26.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296990]

PARATYPE: ♂, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 26.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis hayasuensis 1970 [B1-296991]

PARATYPE: ♂, Emerged from the larva collected at Hayasu, Nishiwaki, Hyogo Pref., Japan, 21.III.1963 /Mushi. Fukuoka, 43 (1970): p.14

Pachyprotasis yamabokuchii 1970 [B1-296992]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Kasagatayama, Hyogo Pref., Japan, 30.IV.1967 /Mushi. Fukuoka, 43 (1970): p.15

Pachyprotasis yamahakkai 1970 [B1-296993]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 13.IV.1967. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-296994]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 13.IV.1967. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-296995]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 13.IV.1967. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-296996]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 14.IV.1967. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-296997]

PARATYPE: ♀, Emerged from a litter of larvae, Hyogo Pref., Japan, 16.IV.1967 /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-296998]

PARATYPE: ♀, Emerged from a litter of larvae, Hyogo Pref., Japan, 16.IV.1967 /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-296999]

PARATYPE: ♀, The mother of the previous specimens, Sasabe, Kawanishi, Hyogo Pref., Japan, 14.V.1966, Inomata leg. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-297000]

PARATYPE: ♀, The mother of the previous specimens, Sasabe, Kawanishi, Hyogo Pref., Japan, 14.V.1966, Inomata leg. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-297001]

PARATYPE: ♀, They produced many larvae, Mt. Sengamine, Hyogo Pref., Japan, 5.V.1967, K. Okamoto, K. Tanaka and Inomata leg. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis yamahakkai 1970 [B1-297002]

PARATYPE: ♀, They produced many larvae, Mt. Sengamine, Hyogo Pref., Japan, 5.V.1967, K. Okamoto, K. Tanaka and Inomata leg. /Mushi. Fukuoka, 43 (1970): p.16

Pachyprotasis nogusai 1970 [B1-297003]

HOLOTYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297004]

ALLOTYPE: ♂, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297005]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297006]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297007]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 17.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297008]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 17.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297009]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297010]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297011]

PARATYPE: ♀, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 19.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297012]

PARATYPE: ♂, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 16.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis nogusai 1970 [B1-297013]

PARATYPE: ♂, Emerged from the larva collected at Sasayama, Hyogo Pref., Japan, 16.IV.1963. /Mushi. Fukuoka, 43 (1970): p.18

Pachyprotasis sasabensis 1970 [B1-297014]

HOLOTYPE: ♀, Emerged from the larva collected at Sasabe, Kawanishi, Hyogo Pref., Japan, 18.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297015]

ALLOTYPE: ♂, Emerged from the larva collected at Sasabe, Kawanishi, Hyogo Pref., Japan, 15.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297016]

PARATYPE: ♀, Emerged from the larva collected at Sasabe, Kawanishi, Hyogo Pref., Japan, 14.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297017]

PARATYPE: ♀, Produced many larvae, Sasabe, Kawanishi, Hyogo Pref., Japan, 14.V.1967, Inomata leg. /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297018]

PARATYPE: ♂, Emerged from the larva collected at Sasabe, Kawanishi, Hyogo Pref., Japan, 19.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297019]

PARATYPE: ♀, From a litter of larvae, Hyogo Pref., Japan, 15.IV.1967 /Mushi. Fukuoka, 43 (1970):p.20

Pachyprotasis sasabensis 1970 [B1-297020]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 10.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297021]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 11.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297022]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 11.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297023]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 14.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297024]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 14.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297025]

PARATYPE: ♀, From a litter of larvae, Hyogo Pref., Japan, 15.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297026]

PARATYPE: ♀, From a litter of larvae, Hyogo Pref., Japan, 15.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297027]

PARATYPE: ♂, From the larva collected on Mt. Kasagatayama, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297028]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 17.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297029]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 17.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis sasabensis 1970 [B1-297256]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 14.IV.1967 /Mushi. Fukuoka, 43 (1970): p.20

Pachyprotasis hiensis 1970 [B1-297030]

HOLOTYPE: ♀, Emerged from the larva collected at Hie, Nishiwaki, Hyogo Pref., Japan, 31.I.1962. /Mushi. Fukuoka, 43 (1970): p.22

Pachyprotasis takakumai 1970 [B1-297031]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1967. /Mushi. Fukuoka, 43 (1970): p.23

Pachyprotasis takakumai 1970 [B1-297032]

PARATYPE: ♀, Produced many larvae, Mt. Sengamine, Hyogo Pref., Japan, 5.V.1967, K. Okamoto leg. /Mushi. Fukuoka, 43 (1970): p.23

Pachyprotasis takakumai 1970 [B1-297033]

PARATYPE: ♀, Deposited eggs on *I. shikokianus* var. *intermedius* in the field, Mt. Kasagatayama, Hyogo Pref., Japan, 30.V.1960, Inomata leg. /Mushi. Fukuoka, 43 (1970): p.23

Pachyprotasis iwatai 1970 [B1-297034]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 26.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297035]

ALLOTYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 18.IV.1967. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297036]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 17.IV.1967. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297037]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 18.IV.1967. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297038]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297039]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297040]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine; the mother of allotype and previous male specimens, Hyogo Pref., Japan, 25.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297041]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 25.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297042]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 25.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297043]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 23.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297044]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297045]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297046]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297047]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297048]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 25.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297049]

PARATYPE: ♀, Emerged from the larva collected on Mt. Sengamine, Hyogo Pref., Japan, 26.IV.1966. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis iwatai 1970 [B1-297050]

PARATYPE: ♂, From a litter of larvae, Hyogo Pref., Japan, 17.IV.1967. /Mushi. Fukuoka, 43 (1970): p.24

Pachyprotasis mikuniensis 1970 [B1-297051]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 13.IV.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis mikuniensis 1970 [B1-297052]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 27.IV.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis mikuniensis 1970 [B1-297053]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 27.IV.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis mikuniensis 1970 [B1-297054]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 29.IV.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis mikuniensis 1970 [B1-297055]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 30.IV.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis mikuniensis 1970 [B1-297056]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 30.IV.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis mikuniensis 1970 [B1-297057]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 5.V.1967. /Mushi. Fukuoka, 43 (1970): p.25

Pachyprotasis sengaminensis 1970 [B1-297058]

HOLOTYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 1.V.1962. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297059]

ALLOTYPE: ♂, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 17.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297060]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 18.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297061]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 18.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297062]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297063]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 19.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297064]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297065]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297066]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 20.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297067]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 21.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297068]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 22.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297069]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 22.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297070]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 23.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297071]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297072]

PARATYPE: ♀, From the larva, on Mt. Sengamine, Hyogo Pref., Japan, 24.IV.1967. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis sengaminensis 1970 [B1-297073]

PARATYPE: ♀, Emerged from the larva collected on Mt. Mikunidake, Hyogo Pref., Japan, 3.V.1962. /Mushi. Fukuoka, 43 (1970): p.26

Pachyprotasis meehaniae 1984 [B1-297074]

HOLOTYPE: ♀, Emerged from a larva feeding on the host, Mt. Daihizan, Kyoto Pref., Japan, 28.IV.1971, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.309

Pachyprotasis meehaniae 1984 [B1-297075]

PARATYPE: ♀, Emerged from a larva feeding on the host, Mt. Daihizan, Kyoto Pref., Japan, 21~27.IV.1971, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.309

Pachyprotasis meehaniae 1984 [B1-297076]

PARATYPE: ♀, Emerged from a larva feeding on the host, Mt. Daihizan, Kyoto Pref., Japan, 25~27.IV.1971, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.309

Pachyprotasis meehaniae 1984 [B1-297077]

PARATYPE: ♀, Emerged from a larva feeding on the host, Mt. Daihizan, Kyoto Pref., Japan, 27.IV.1971, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.309

Pachyprotasis meehaniae 1984 [B1-297078]

PARATYPE: ♀, Emerged from a larva feeding on the host, Mt. Daihizan, Kyoto Pref., Japan, 29.IV.1971, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.309

Pachyprotasis meehaniae 1984 [B1-297079]

PARATYPE: ♀, Emerged from a larva feeding on the host, Mt. Daihizan, Kyoto Pref., Japan, 29.IV.1971, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.309

- Pachyprotasis korasanensis* 1984 [B1-297240]
PARATYPE: ♀, Mt. Hikosan, Fukuoka Pref., Japan, 23.IV.1930, K. Yasumatsu leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297241]
PARATYPE: ♀, Mt. Hikosan, Fukuoka Pref., Japan, 23.IV.1930, K. Yasumatsu leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297242]
PARATYPE: ♀, Mt. Hikosan, Fukuoka Pref., Japan, 23.IV.1930, K. Yasumatsu leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297243]
PARATYPE: ♀, Mt. Hikosan, Fukuoka Pref., Japan, 23.IV.1930, K. Yasumatsu leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297244]
PARATYPE: ♂, Mt. Hikosan, Fukuoka Pref., Japan, 23.IV.1930, K. Yasumatsu leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297245]
PARATYPE: ♂, Mt. Odaigahara, Nara Pref., Japan, 7.VI.1970, T. Naito leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297246]
PARATYPE: ♂, Mt. Odaigahara, Nara Pref., Japan, 7.VI.1970, T. Naito leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297247]
PARATYPE: ♂, Emerged from a larva feeding on *Plantago asiatica*, Mt. Inamuragatake, Nara Pref., Japan, 23.IV.1972, R. Inomata leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297248]
PARATYPE: ♀, Chugu, Ishikawa Pref., Japan, 1.V.1955, I. Togashi leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317
- Pachyprotasis korasanensis* 1984 [B1-297249]
PARATYPE: ♀, Mitsudani, Ishikawa Pref., Japan, 31.V.1966, I. Togashi leg. /Kontyu. Tokyo, 52, No.2 (1984): p.317

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