

ツキヨタケ (ハラタケ目: キシメジ科) から得られた甲虫類

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Beetles obtained from
Lampteromyces japonicus (KAWAM.) SING.
(Agaricales: Tricholomataceae)

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Abstract

Sixteen species of beetles in 4 families were obtained from *Lampteromyces japonicus* (KAWAM.) SING. in a beech primary forest at Asyû, Kyoto, Japan between 15 and 20 October 1993.

Introduction

Lampteromyces japonicus (KAWAM.) SING. (Agaricales: Tricholomataceae) is a poisonous fungus distributed in Japan, Korea and maritime provinces of Russia occurring on dead beech logs from late summer to autumn (IMAZEKI, *et al.* 1988). There have been few reports on the fauna inhabiting the fruiting bodies of *L. japonicus*. However, MORIMOTO and HAYASHI (1986) reported that larvae of *Cychramus* (Nitidulidae) fed on the fruiting bodies.

A survey of beetles inhabiting the fruiting bodies of *L. japonicus* was carried out in a beech primary forest at Asyû, Kyoto, Japan, from 15 to 20 October 1993. The findings of this survey are reported here.

Materials and Methods

The author collected a total of 50 fruiting bodies of *L. japonicus* by wrapping up separately in vinyl bags.

Adult beetles removed from the fruiting bodies were pinned or preserved in 80% ethanol, the most of them were identified according to UENO *et al.* (1985) and KUROSAWA *et al.* (1985). Dr. S. NAOMI of the Natural History Museum and Institute, Chiba, was consulted for identification of Staphylinidae.

The beetles collected were divided into the following three ecological categories according to their dependency on fungi (BENICK, 1952; GRAVES, 1960; KLIMASZEWSKI and PECK, 1987).

1) Mycetobionts (MB); Beetles belonging to this category are obligatorily associated with fungi, which are used as food for the development of larvae and/or adults.

2) Mycetophiles (MP); Beetles belonging to this category are not obligatorily associated with

fungi, and are able to complete their life cycle in the absence of fungi. These are generally polyphagous, feeding on various decomposing materials, or are predators of other insects found on fungi.

3) Mycetoxenes (MX); Beetles belonging to this category are found occasionally on or around fungi, which they may use for shelter.

Results

Sixteen species of beetles in 4 families were obtained from *L. japonicus* in the surveyed beech forest.

A list of the species collected is given below. The code appearing after the name of each is the ecological category according to the fungus-dependency of the beetle, as described above. The number after the code represents the number of specimens collected.

Leionidae

① *Pseudoliodes strigosula* (PORTEVIN) MB (NEWTON 1984), 1

This species was recorded from various fungi; *Mycoleptonoides aitchisonii*, *Polyporus alveolarius*, *Polyporellus varius*, *Grifora albicans*, *Coriolus hirsutus*, *Bjerkandera adusta*, *Heterobasidion insularius*, *Fomitopsis pinicola*, *Elfvigia applanata* and *Phellinus gilvus* (SETSUDA, 1993).

Staphylinidae

② *Trigonodemus lebioides* (KRAATZ) MB ?, 2

This species was recorded from *Naematoloma fasciculare* and *Mycoleptonoides aitchisonii* (SETSUDA, 1993).

③ *Oxyporus japonicus* SHARP MB, 44

This species was recorded from *Pleurotus ostreatus* (NOBUCHI, 1941), *Panellus serotina* (SUZUKI, 1987) and *Armillariella mellea* (SETSUDA, unpub. data).

④ *Lordithon bicolor* (GRAVENHORST) MP (NEWTON, 1984), 4

This species was recorded from *Pleurotus ostreatus* (SETSUDA, unpub. data). *Lordithon* adults seem to be predacious (NEWTON, 1984).

⑤ *Lordithon* sp. 1 MP (NEWTON, 1984), 1

⑥ *Lordithon* sp. 2 MP (NEWTON, 1984), 2

⑦ *Lordithon* sp. 3 MP (NEWTON, 1984), 3

According to Dr. S. NAOMI, these 3 species of *Lordithon* seem to be new species.

⑧ *Gyrophæna* sp. 1 MB (NEWTON, 1984; ASHE, 1984), 4

⑨ *Gyrophæna* sp. 2 MB (NEWTON, 1984; ASHE, 1984), 1

⑩ *Phymatura japonica* CAMERON MB ?, 3

This species was recorded from *Coriolus hirsutus* and *Bjerkandera adusta* (SETSUDA, 1993).

⑪ *Atheta* sp. 1 MP ?, 16

⑫ *Atheta* sp. 2 MP ?, 3

⑬ *Atheta* sp. 3 MP ?, 13

These 3 species of *Atheta* were collected from decayed fruiting bodies.

Nitidulidae

- ⑭ *Cychramus dorsalis* REITTER MB, 13

Larvae of *Cychramus* (Nitidulidae) feed on fruiting bodies of *L. japonicus* (MORIMOTO & HAYASHI, 1986).

- ⑮ *Cyllodes punctidorsum* NAKANE et HISAMATSU MB, 2

Tetratomidae

- ⑯ *Pisenus rufitarsis* (REITTER) MB, 2

This species was recorded from decayed fruiting bodies of *Pleurotus ostreatus* (SETSUDA, unpub. data).

摘要

筆者は1993年10月15日から20日、京都府北桑田郡美山村芦生のブナ原生林で、ツキヨタケ (ハラタケ目: キンメジ科) に生息する甲虫類の調査をした。その結果、ツキヨタケ子実体より4科16種の甲虫が得られた。

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