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On the Clavariaceae of Japan VI.
The Species found in the Central Honshu.¹⁾

By

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(今井三子)

I. RAMARIA.

1. '*Clavaria amethystina* BULL. ex FR.³⁾

Hab. On the ground. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 7, 1938).

Jap. name. *Murasaki-hôkitake*.

2. *Clavaria apiculata* FR.

Clavaria apiculata FR. Syst. Myc. I, 470, 1821.

Clavariella apiculata KARST. Hattsv. II, 188, 1882.

Clavaria tsugina PECK, 67 Bull. N. Y. State Mus. 27, 1903, teste COKER.

Hab. On rotting coniferous wood. Prov. Musashi: Mt. Takamizu (R. IMAZEKI, Sept. 20, 1936, in Herb. Tokyo Sci. Mus.); Mt. Takao (S. IMAI, Oct. 15, 1940).

Jap. name. *Cha-hôkitake-modoki*.

3. *Clavaria aurea* SCHAEFF. ex FR.

Hab. On the ground in woods. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 8, 1938). Prov. Musashi: Mt. Takao (S. IMAI, Oct. 15, 1940).

Jap. name. *Kogane-hôkitake*.

4. *Clavaria botrytis* PERS. ex FR.

Hab. On the ground in woods. Prov. Musashi: Asakawa (S. IMAI, Oct.

1) The Central Honshu dealing in this paper includes the Southern district of Kantô and the Prefectures of Yamanashi, Nagano and Gifu.

2) The writer wishes to express his cordial thanks to the Japan Society for the Promotion of Scientific Research for the grant rendering possible the writer's botanical excursions. Thanks are also due to Mr. ROKUYA IMAZEKI, of the Tokyo Science Museum, for his kindness in allowing the writer to freely examine his specimens of this group, and to the gentlemen who have rendered assistance in various ways during the writer's excursions.

3) The literatures and synonyms of the species which were enumerated in the fifth report are omitted in order to simplify the enumeration of species.

15, 1940). Prov. Kai: Kamikuishshiki-mura, Motosu (S. IMAI, Oct. 1, 1940); Narusawa-mura (S. IMAI, Oct. 8, 1940).

Jap. name. *Hôkitake*.

5. *Clavaria cinerea* PERS. ex FR.

Hab. On the ground. Prov. Shinano: Mt. Kurohime (S. IMAI, Sept. 4, 1938).

Jap. name. *Hai-iro-kare-edatake*.

6. *Clavaria cristata* [HOLMSK.] PERS. ex FR.

Hab. On the ground. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 10, 1938); Mt. Kurohime (S. IMAI, Sept. 4, 1938). Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940); Shôsenkyô (R. IMAZEKI, Oct. 3, 1937, in Herb. Tokyo Sci. Mus.). Prov. Hida: Hirayu (S. IMAI, Sept. 8, 1938).

Jap. name. *Kare-edatake*.

7. *Clavaria crocea* PERS. ex FR.

Hab. On the ground. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 12, 1938). Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940).

Jap. name. *Aka-hime-hôkitake*.

8. *Clavaria flaccida* FR.

Hab. On the ground among fallen leaves. Prov. Shinano: Kiso, Ôdaki (S. IMAI, Sept. 22, 1938); Azumi-mura (S. IMAI, Sept. 10, 1938). Prov. Kai: Shôsenkyô (R. IMAZEKI, Oct. 3, 1937, in Herb. Tokyo Sci. Mus.).

Jap. name. *Hime-hôkitake*.

9. *Clavaria flava* SCHAEFF. ex FR.

Hab. On the ground. Prov. Musashi: Mt. Takamizu (R. IMAZEKI, Oct. 20, 1936, in Herb. Tokyo Sci. Mus.); Mt. Takao (S. IMAI, Oct. 15, 1940). Prov. Shinano: Azumimura (S. IMAI, Sept. 12, 1938). Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940); Kamikuishshiki-mura, Motosu (S. IMAI, Oct. 1, 1940); Nishinoumi-mura, Aokigahara (S. IMAI, Oct. 4, 1940).

Jap. name. *Ki-hôkitake*.

10. *Clavaria flava* SCHAEFF. ex FR.

form. *subtilis* (COKER) IMAI, comb. n.

Clavaria flava var. *subtilis* COKER, Clavarias U. S. 125, pl. 85, f. 13-14, 1923.

Hab. On the ground. Prov. Kai: Nishinoumi-mura, Aokigahara (S.

IMAI, Oct. 4, 1940).

Jap. name. *Hoso-ki-hôkitake* (n. n.).

11. *Clavaria formosa* PERS. ex FR.

Hab. On the ground. Prov. Kai: Shôsenkyô (R. IMAZEKI, Oct. 3, 1937, in Herb. Tokyo Sci. Mus.); Kamikuishshiki-mura, Motosu (S. IMAI, Oct. 1, 1940).

Jap. name. *Hana-hôkitake*.

12. *Clavaria grandis* PECK

Clavaria grandis PECK, Bull. Torrey Bot. Club, XXIX, 73, 1903.

C. *spiculospora* ATKINS. Ann. Myc. VII, 368, 1909, teste COKER.

Hab. On the ground in woods. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 12, 1938).

Jap. name. *Sakijiro-hôkitake*.

13. *Clavaria Kisoensis* IMAI, sp. nov.

Gregaria vel solitaria, 2.5–5 cm. alta, bis ad quarto dichotome ramosa; ramis circa 1 mm. crassis, "cinnamon-buff" vel "clay-color", apicibus acutis; stipite longo, gracili, 1–2 mm. crasso, vulgo albo, velutino vel substrigoso-villosulo; basidiis clavatis, 4-sporis; sporis ellipsoideis vel oblongis, levibus, hyalinis, $4.5-5.5 \times 2.5-3 \mu$.

Hab. ad terram in silvis. Prov. Shinano: Kiso, Ôdaki (S. IMAI, Sept. 20, 1938).

Jap. name. *Kiso-hime-hôkitake* (n. n.).

This is allied to *Cl. gracilis*, from which it is easily distinguished by the less branched fructification colored brownish even in the younger stage.

14. *Clavaria Kunzei* FR.

Hab. On the ground. Prov. Musashi: Mt. Takamizu (R. IMAZEKI, Sept. 20, 1936, in Herb. Tokyo Sci. Mus.); Asakawa (S. IMAI, Oct. 12, 1940). Prov. Shinano: Kiso, Ôdaki (S. IMAI, Sept. 20, 1938); Azumi-mura (S. IMAI, Sept. 12, 1938). Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940). Prov. Hida: Yamanokuchi-mura (S. IMAI, Sept. 17, 1938).

Jap. name. *Shiro-hime-hôkitake*.

15. *Clavaria muscoides* L. ex FR.

Hab. On the ground in woods. Prov. Shinano: Kiso, Ôdaki (S. IMAI, Sept. 20, 1938). Prov. Kai: Masutomi-mura, Mt. Mizugaki (S. IMAI, Sept. 27, 1940). Prov. Sagami: Hatano (R. IMAZEKI, Oct. 28, 1937, in Herb. Tokyo

Sci. Mus.).

Jap. name. *Hime-tsunotake*.

16. *Clavaria ornatipes* PECK

Hab. On the ground. Prov. Shinano: Mt. Kurohime (S. IMAI, Sept. 4, 1938); Azumi-mura (S. IMAI, Sept. 8, 10, 1938).

Jap. name. *Ke-ashi-hôkitake*.

17. *Clavaria rugosa* BULL. ex FR.

Hab. On the ground. Prov. Musashi: Asakawa (R. IMAZEKI, Oct. 25, 1937, in Herb. Tokyo Sci. Mus.).

Jap. name. *Kare-eda-take-modoki*.

18. *Clavaria secunda* BERK. et CURT.

Clavaria secunda BERK. et CURT. Grevillea, II, 7, 1873.

C. *crassipes* PECK, 67 Bull. N. Y. State Mus. 27, 1903, teste COKER.

?C. *pallida* [SCHAEFF. Fung. Bavar. IV, Index 120, pl. 286, 1774] sensu BRES. Icon. Myc. XXII, pl. 1088, 1932.

Hab. On the ground in woods. Prov. Kai: Kamikuishshiki-mura, Motosu (S. IMAI, Oct. 1, 1940); Narusawa-mura (S. IMAI, Oct. 8, 1940).

Jap. name. *Usuki-hôkitake* (n. n.).

19. *Clavaria stricta* PERS. ex FR. sensu COTTON.

Hab. On rotting deciduous wood. Prov. Shinano: Kiso, Ôdaki (S. IMAI, Sept. 22, 1938).

Jap. name. *Cha-hôkitake*.

20. *Clavaria subbotrytis* COKER

Clavaria subbotrytis COKER, Clavarias U. S. 116, pl. 28, f. 5, pl. 33, pl. 85, f. 5-6, 1923.

Hab. On the ground in woods, especially in conifers. Prov. Musashi: Mt. Takamizu (R. IMAZEKI, Sept. 20, 1936, in Herb. Tokyo Sci. Mus.). Prov. Kai: Nishinoumi-mura, Aokigahara (S. IMAI, Oct. 4, 1940).

Jap. name. *Sango-hôkitake*.

21. *Clavaria testaceo-flava* BRES.

Clavaria testaceo-flava BRES. Fung. Trid. I, 61 & 104, pl. 69, 1884.

Hab. On the ground in woods, especially in conifers. Prov. Kai: Kamikuishshiki-mura, Motosu (S. IMAI, Oct. 1, 1940).

Jap. name. *Cha-tosaka-hôkitake* (n. n.).

II. SYNCORYNE.

22. *Clavaria fragilis* HOLMSK. ex FR.

Hab. On the ground. Prov. Shinano: Mt. Tokakushi (S. IMAI, Sept. 2, 1938).

Jap. name. *Shiro-sômentake*.

23. *Clavaria fumosa* PERS. ex FR.

Hab. On the ground in woods. Prov. Kai: Nishinoumi-mura, Aokigahara (S. IMAI, Oct. 4, 1940).

Jap. name. *Cha-naginatatake*.

24. *Clavaria fusiformis* SOW. ex FR.

Hab. On the ground. Prov. Shinano: Mt. Tokakushi (S. IMAI, Sept. 2, 1938); Mt. Kurohime (S. IMAI, Sept. 4, 1938); Azumi-mura (S. IMAI, Sept. 7, 8, 1938); Kiso, Ôdaki (S. IMAI, Sept. 20, 22, 1938). Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940); Kamikuishshiki-mura, Motosu (S. IMAI, Oct. 1, 1940). Prov. Hida: Hirayu (S. IMAI, Sept. 8, 1938). Prov. Mino: Akigami-mura (H. SHIBATA, Oct. 15, 1932). Prov. Etchû: Mt. Tateyama (MATSUMOTO, Oct. 14, 1922, in Herb. Tokyo Sci. Mus., reported by YASUDA as *Cl. platyclada* PECK).

Jap. name. *Naginatatake*.

25. *Clavaria fusiformis* SOW. ex FR.

form. *aurantiaca* IMAI

Hab. On the ground. Prov. Shinano: Mt. Tokakushi (S. IMAI, Sept. 2, 1938); Mt. Kurohime (S. IMAI, Sept. 4, 1938); Azumi-mura (S. IMAI, Sept. 7, 8, 1938). Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940).

Jap. name. *Kogane-Naginatatake*.

26. *Clavaria helvola* PERK. ex FR. sensu COKER.

Clavaria helveola PERS. Comm. Fung. Clav. 69, 1797.

C. helvola FR. Syst. Myc. I, 482, 1821.

?*C. citrina* QUÉL. Bull. Soc. Bot. Fr. XXIII, 330, pl. 3. f. 14, 1876.

?*C. luteo-alba* REA, Trans. Brit. Myc. Soc. II, 66, t. 3, f. B, 1904.

C. citrina HEMMI et KURATA, Acta Phytotax. & Geobot. II, 113, f. 4, 1933.

Hab. On the ground. Prov. Shinano: Mt. Kurohime (S. IMAI, Sept. 4, 1938); Azumimura (S. IMAI, Sept. 7, 8, 12, 1938). Prov. Kai: Masutomi-mura, Mt. Mizugaki (S. IMAI, Sept. 27, 1940).

Jap. name. *Daidai-naginatatake*.

27. *Clavaria inaequalis* MUELL. ex FR. sensu COTTON*Clavaria inaequalis* MUELL. Fl. Dan. pl. 836, f. 1, 1780.*C. inaequalis* FR. Syst. Myc. I, 481, 1821, p. p.—COTTON, Trans. Brit. Myc. Soc. II, 163, 1906.*C. dissipabilis* BRIT. Hym. Sudb. Clav. 289, pl. 734, f. 28, pl. 743, f. 55, 1885.*C. echinospora* (non BERK. et BR.) BOUD. et PAT. Jour. de Bot. II, 341, 1888.*C. similis* BOUD. et PAT. Ibid. II, 406, pl. 8, f. 1, 1888.

Hab. On the ground. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 7, 8, 10, 12, 1938). Prov. Kai: Shôsenkyô (R. IMAZEKI, Oct. 3, 1937, in Herb. Tokyo Sci. Mus.).

Jap. name. *Ki-sômentake*.**28. *Clavaria Miyabeana* S. ITO**

Hab. On the ground. Prov. Shinano: Mt. Kurohime (S. IMAI, Sept. 4, 1938); Mt. Tokakushi (S. IMAI, Sept. 2, 1938); Azumi-mura (S. IMAI, Sept. 7, 8, 10, 12, 1938); Kiso, Ôdaki (S. IMAI, Sept. 20, 22, 1938). Prov. Kai: Kamikuishiki-mura, Motosu (S. IMAI, Oct. 1, 1940). Prov. Hida: Hirayu (S. IMAI, Sept. 8, 1938); Yamanokuchi-mura (S. IMAI, Sept. 17, 1938).

Jap. name. *Beni-naginatatake*.**29. *Clavaria pulchra* PECK**

Hab. On the ground. Prov. Kai: Masutomi-mura (S. IMAI, Sept. 26, 1940); Oshino-mura (S. IMAI, Oct. 6, 1940). Prov. Hida: Hirayu (S. IMAI, Sept. 8, 1938).

Jap. name. *Kabentake*.**30. *Clavaria purpurea* MUELL. ex FR.**

Hab. On the ground. Prov. Kazusa: Mohara-machi (R. IMAZEKI, Nov. 12, 1933; Oct. 13, 1935, in Herb. Tokyo Sci. Mus.). Prov. Mino: Unuma-mura (M. HIURA, Oct. 7, 1932).

Jap. name. *Murasaki-naginatatake*.**III. HOLOCORYNE.****31. *Clavaria ligula* SCHAEFF. ex FR.**

Hab. On the ground in woods. Prov. Musashi: Mt. Takamizu (R. IMAZEKI, Sept. 20, 1935, in Herb. Tokyo Sci. Mus.). Prov. Shinano: Azumi-mura (S. IMAI, Sept. 8, 1938).

Jap. name. *Ko-surikogitake*.

32. *Clavaria rubrofliformis* IMAI, sp. nov.

Solitaria, usque ad 2 cm. longa, filiformis, grassilima, circa 1 mm. crassa, toto punicea, maturate pallescens, basi non distincta; basidiis clavatis, 4-sporis; sporis ellipsoideis, hyalinis, levibus, $8-10 \times 5 \mu$.

Hab. ad terram in silvis. Prov. Shinano: Kiso, Ôdaki (S. IMAI, Sept. 20, 1938).

Jap. name. *Hi-iro-senkôtake* (n. n.).

The present fungus is easily distinguished by the scarlet colored slender fructification belonging to the *Holocoryne* group, as well as by the larger ellipsoidal spores.

33. *Clavaria subfalcata* ATKINS.

Clavaria subfalcata ATKINS. Ann. Myc. VI, 58, 1908.

Hab. On the ground. Prov. Kai: Shôsenkyô (R. IMAZEKI, Oct. 3, 1937, in Herb. Tokyo Sci. Mus.).

Jap. name. *Shiro-sômentake-modoki*.

34. *Clavaria trigonosperma* IMAI, sp. nov.

Gregaria, 1.5-2 cm. longa, 1-2 mm. crassa, clavato-cylindracea, simplex, supra "empire-yellow", infera "lemon-yellow", basi non distincta; basidiis clavatis, 2-4-sporis; sporis trigonalibus, quadrigonalibus vel subellipsoideis, hyalinis, $7-8 \times 5-6 \mu$; paraphysibus biformibus: uno clavatis et apice 5μ crassis, altera filiformibus et irregulariter flexuosis atque circa 2μ crassis.

Hab. ad terram in silvis. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 7, 1938).

Jap. name. *Hishi-mi-no-senkôtake* (n. n.).

The present species is easily recognisable by the angular spores, as well as by the two-formed paraphyses.

35. *Pistillaria Petasitidis* IMAI

Pistillaria Petasitidis IMAI, Trans. Sapporo Nat. Hist. Soc. XI, 76, 1930.

Hab. On the rotting petioles of *Petasites japonica*. Prov. Shinano: Azumi-mura (S. IMAI, Sept. 9, 1938).

Jap. name. *Fuki-gamanohotake-modoki*.