

NOTES ON SOME NEW OR NOTEWORTHY FUNGI IN KYUSHU (5)

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29. *Physalospora chaenostoma* SAOC.

Hedw. 1899, p. 132; Sacc. Syll. Fung. 16: 460~461, 1902; Stevenson, Foreign plant diseases p. 109, 1929.

Hab. On *Maesa japonica* MOR. et ZOLL. (Izusenryo).

Prof. Saga: Mt. Tara (May 22, 1942; May 18, 1952, S. Katsuki).

The general characters of the present fungus are almost the same as those of *Physalospora chaenostoma* reported by Saccardo with the exception that the former fungus has smaller asci and ascospores than those of the latter. This is also a new addition to the mycological flora in Japan. The results of the present study are as follows:-

Spots amphigenous, subcircular to elliptical, 1~8 mm. diam., at first light-brown, becoming gray to white centered, border definite; perithecia amphigenous, mostly epiphyllous, scattered or subgregarious, slightly immersed, brownish-black, globose, 98-182 μ diam.; asci cylindrical to clavate, roudish at the ends, short-stipitate, hyaline, 45~72 \times 10~13 μ , 8~spored; ascospores cylindrical, ends rounded, continuous, guttulate, hyaline, 11~13 \times 3.5~4.0 μ ; paraphyses filiform 30~35 \times 2 μ .

30. *Entyloma nymphaeae* (CUNN.) SETOH.

Bot. Gaz. 19: 189, 1894; S. Ito, Mycol. Fl. Japan 2(1): 106~107, 1936.

Hab. On *Nymphaea tetragona* GEORGI var. *angusta* CASP. subvar. *orientalis* CASP. (Hitsuzigusa).

Prof. Fukuoka: Kūrume-city (Oct. 30, 1940, S. Katsuki).

New to Kyushu!

31. *Septoria convolvuli* DESM. var. *soldanellae* BRUN.

Liste Sphaerops. p. 49; Sacc. Syll. Fung. 10: 377, 1892.

Hab. On *Calystegia soldanella* R. BR. (Hamahirugao).

Prof. Fukuoka: Fukuoka-city (May 10, 1948; June 31, 1951, S. Katsuki).

Nine species of *Septoria* have been described as parasitic on *Calystegia* (*Convolvulus*), viz. *S. convolvuli* DESM. (Syn. *S. fuscella* BERK.), *S. calystegiae* WESTEND. (Syn. *S. sepium* DESM.), *S. convolvuli* DESM. var. *soldanellae* BRUN., *S. convolvulina* SPEG., *S. flagellaris* ELL. et EV., *S. obesispora* OUD., *S. convolvuli* DESM. var. *dolichospora* SAOC., *S. septulata* W. SP. BEACH and *S. longispora* A. BOND. In these species, Brun. described *S. convolvuli* var. *soldanellae* found on *Calystegia soldanella* R. BR. from Europe, but Miura treated as *S. convolvuli*, the fungus on the same host from Manchuria (Publ. South. Manch. Rwy Co. 27: 463, 1928), recently Bernaux treated it as identical with *S. calystegiae* (Rev. Path. Vég. et Ent. Agric. France 30(1): 16~24, 1951). In our country *Septoria* fungus on *Calystegia sepium* R. BR. f. *major* MAK. is treated as identical with *S. convolvuli* DESM. by Togashi (Jap. Jour. Bot. 2(2): 96, 1924). The writer could examine the following specimens through the courtesy of late Dr. Togashi.

(1) *Septoria convolvuli* DESM. On *Convolvulus arvensis*: Brandenburg, Sept. 20, 1923, Leg. P. Vogel (Sydow's Mycotheca Germanica).

(2) *S. convolvuli* DESM. On *Convolvulus sepium* L.: Latvia, Aug. 27, 1932 (Herbario A. Kirulis).

(3) *S. convolvuli* DESM. On *Calystegia sepium* R. BR. f. *major* MAK.: Senpoji-Oshidomari, Rishiri Island Oct. 8, 1923, Leg. Togashi. But the distinction between *S. convolvuli* and *S. convolvuli* var. *soldanellae* is not evident except the former species usually has the imbedded pycnidia. Therefore, the present fungus will be left as *S. convolvuli* var. *soldanellae* until further studies of these species decide them. It differs from *S. calystegiae* in having narrower spores. This species is a new addition to the mycological flora of Japan, and the present fungus distributes in Hokkaido, Iwate and Kanagawa Prefecture. The general characters of the present material are as follows:-

Spots amphigenous, roundish, 1~4 mm. diam., border definite, at first grayish-brown to yellowish-brown, then whiteish in center, pycnidia amphigenous, mostly epiphyllous, scattered in lesions, erumpent, membranaceous, grayish-brown, spheroidal or depressed spheroidal, 70~126 μ ; pycnospores straight to somewhat curved, continuous to 1~2-septate, hyaline, filiform, cylindrical-obclavate, tapering toward both ends or one end, 20~40 \times 1.5~2.0 μ .

32. *Septoria swertiae* PAT.

Rev. Myc. p. 181, 1886; Sacc. Syll. Fung. 10:376, 1892; Togashi, Botanical survey in the Yanagawa-Range p. 80, 1937.

Hab. On *Swertia bimaculata* HOOK. FIL. et THOMS. (Akebonoso).

Pref. Fukuoka: Mt. Wakasugi (Oct. 7, 1951, S. Katsuki).

New to Kyushu!

Spots amphigenous, grayish-brown, finally white, subcircular, angular to irregular, 1~5 mm. at times confluent, border definite; pycnidia epiphyllous, erumpent, dark brown, 50~75 \times 38~62 μ , mostly 60 \times 50 μ ; ostiol subcircular, 10~13 μ ; conidia filiform, straight or vermiform hyaline, 17~37 \times 1.0~1.2 μ , mostly 27 \times 1.0 μ .

33. *Septocylindrium angelicae* KATSUKI sp. nov. (Fig. 4).

Hab. On *Angelica polyclada* FRANOH. (Shishiu-do).

Pref. Fukuoka: Mt. Raizan, Itoshima (Aug. 6, 1950, S. Katsuki-Type!)

Maculis obscuribus vel nullis, caespitulis plerumque hypophyllis, griseis dein sordidis; conidiophoris cylindraceutis, sursum rotundatis vel leniter attenuatis, flexuosis vel rectis, simplicibus, laxe fasciculatis, non vel 1-septatis, hyalinis, 13~45 \times 3.0~5.0 μ ; conidiis cylindraceutis vel elongato-cylindraceutis, utrimque rotundatis, fere curvatis, hyalinis, continuis vel 1-septatis, ad septa interdum constrictis, 18~35 \times 4.8~6.0 μ .

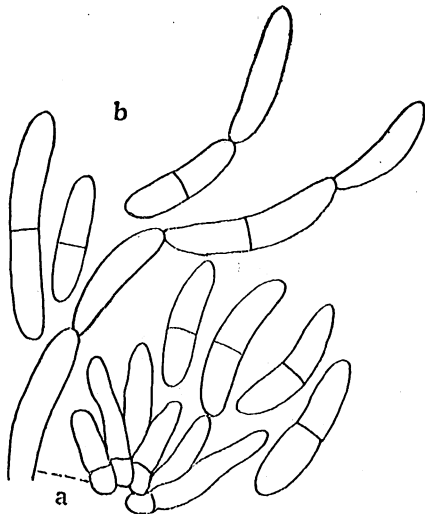


Fig. 4. *Septocylindrium angelicae*
Katsuki sp. nov.

a. Conidiophores b. Conidia
(X 740)