

## NOTES ON SOME NEW OR NOTEWORTHY FUNGI IN KYUSHU ( 4 )

By

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(22) *Albugo wasabiae* HARA

Pathol. Agr. Plant. p. 721, fig. 306~307, 1930; Ito, Myc. Fl. Japan 1: 138, 1936.

Hab. On *Wasabia wasabi* MAKINO = *Eutrema wasabi* MAXIM (Wasabi).

Pref. Fukuoka: Mt. Seburi (Oct. 28, 1951, S. Katsuki).

This fungus is a new addition to the mycological flora of Kyushu.

(23) *Phyllosticta antirrhini* SYDOW

Slimey, Phytopath. 10: 232, 1920; Goto, Jour. Plant. Prot. (Byochugai-zasshi) 15(12): 678, 1928.

Hab. On *Antirrhinum majus* L. (Kingyoso).

Pref. Fukuoka: Futsukaichi-machi, Chikushi (May 30, 1951, S. Katsuki).

(24) *Phyllosticta capsellae* NAITO

Memo. Coll. Agric. Kyoto Imp. Univ. 47: 45, 1940.

Hab. On *Capsella bursa-pastoris* MEDICUS (Nazuna).

Pref. Fukuoka: Futsukaichi-machi, Chikushi (Dec. 15, 1941, S. Katsuki); Fukuoka-city (March 31, 1951, S. Katsuki).

The present fungus is new to Kyushu.

(25) *Phyllosticta zahlbruckneri* BÄUMLER

Beitr. Cripto. Pressb. Com. 1: 7; Sacc. Syll. Fung. 10: 128, 1892; Allescher, Radenhorst's Krypt. Fl. 6: 148, 1901; Stevenson, Foreign plant disease p. 170, 1926.

Syn. *Phyllosticta microspora* FUKUI, Bull. Alumni Associat. Mie Imp. Coll. Agric. and Forest. 5: 56-57, 1936.

Hab. On *Silene armeria* L. (Mushitori-nadeshiko).

Pref. Fukuoka: Fukuoka-city (March 31, 1951; May 1, 1951, S. Katsuki).

In Our country, Fukui reported a new species of *Phyllosticta* on *Silene armeria* L. in Mie Prefecture under the name of *P. microspora* FUKUI. judging from his description of the fungus, it is quite related to *P. zahlbruckneri* BÄUM. except that the former has smaller pycnidia and pycnospores than the later. The fungus under consideration has larger pycnidia than *P. microspora* (30-40 $\mu$ ) and smaller pycnospores than *P. zahlbruckneri* (8-12 $\mu$ ). The dimensions of Pycnidia and pycnospores vary considerably according to environment and growing condition. So the writer is inclined to trat *P. microspora* presumably as the synonym of *P. zahlbruckneri* untill further study is prosecuted on more abundant materials. The present fungus seems to be same as just mentioned, and differs from other species of *Phyllosticta* found on the species of *Silene*, viz. *P. nebulosa* SACC. (Syll. Fung. 3: 43, 1884), *P. silenes* PECK (Syll. Fung. 10: 128, 1892), *P. olites* BRUN. (Syll. Fung. 11: 479, 1885) and *P. pallida* HALSTED

(Seymour, Host Index America p. 303, 1929; synonymous with *P. nebulosa*, according to Weiss; Index of Plant Diseases in the United State Part 1:131, 1950).

Recently same fungus has been discovered in Akita Prefecture by T. Tsukamoto. The characters of the present fungus are as follows:

Spots amphigenous, subcircular or elliptical, light brown to brownish-white, 3-4 mm. diam.; pycnidia epiphyllous, scattered, at first immersed and then erumpent. membranaceous, grayish-brown, lenticular, 98-140 $\mu$ ; ostiole distinct, 10-12 $\mu$  across; conidia cylindrical, round at both ends, continuous, straight, hyaline, 3.7-8.5 $\times$ 2.5-3.7 $\mu$ .

(26) *Septoria alliacea* COOKE

Sacc. Syll. Fung. 3:572, 1884; Allescher, Rabenhorst's Kryp. Fl. 6:727, 1901; Stevenson, Foreign plant disease p. 10, 1926; Hemmi, Yamakura, Hayashi and Ishibashi, Medical Science and Biology 5 (3): 93-97, 1944.

Syn. *Septoria ornithogali* PASS. var. *allii* MAUBLANO, Bull. Soc. Myc. France 3; 295, 1903; Sacc. Syll. Fung. 18: 393-394, 1906.

Hab. On *Allium bakeri* REGEL (Rakkyo).

Pref. Fukuoka: Toyotsu-mura, Miyako (Dec. 25, 1950; March 8, 1951; T. Hino); Pref. Miyazaki: Miyazaki-city (April 27, 1951, S. Katsuki); Yamanokuchi-mura, Kitamorokata (April 28, 1951, S. Katsuki); Pref. Kumamoto. Tsuetate, Aso (May 6, 1951, S. Katsuki).

On *Allium nipponicum* FRANCH et SAV. (Nobiru).

Pref. Miyazaki: Miyazaki-city (Feb. 27, 1952, S. Hirata); Pref. Fukuoka: Naka-machi, Chikushi (March 30, 1952, S. Katsuki).

On *Allium cepa* L. (Tamanegi).

Pref. Fukuoka: Waziro-mura, Kasuya (March 15, 1952, T. Yoshiura).

Several species of *Septoria* have previously been described on *Allium spp.*, viz. *S. alliorum* WEST (1851), *S. alliacea* COOKE (1884), *S. alliicola* BÄUMLER (1885)=*Rhabdospora alliicola* (BÄUM.) ALLESCH. (1901), *S. ornithogali* PASS. var. *allii* MAUB. (1903), *S. allii-striatelli* SPEG. (1910), *S. ranofevici* BUBAK (1914), *S. allii* MOESZ. (1920) and *S. viriditingens* CURT. (1933). Among them, Seymour treated *S. viriditingens* as a synonym of *S. alliorum*. In 1944, Hemmi et al. reported *S. alliacea* COOKE as parasitic on *Allium fistulosum* and *A. cepa*. According to their discrimination, they inferred that *S. ornithogali* var. *allii* is a synonym of *S. alliacea*. As far as the writer is aware is no account concerning the occurrence of any *Septoria* on *Allium bakeri* and *A. nipponicum* up to date. The fungi on *A. bakeri* and *A. nipponicum* also are closely related to *S. alliacea* and *S. ornithogali* var. *allii* in the morphological and symptomatological characters. The present fungus on *Allium bakeri* was sent to Dr. Hemmi for the identification, and the writer received his kind information stating that it agrees well with *S. alliacea*. Also fortunately the writer could examine in detail the excellent specimens on *Allium fistulosum* sent by Dr. Hemmi.

Hereupon, the writer has come to the conclusion that they are undoubtedly the same each other.

The present fungus is a new addition to the mycological flora of kyushu and *Allium bakeri* and *A. nipponicum* are the new host plants to this species.

(27) *Septoria lycoridis* HEMMI et NAITO

Mem. Coll. Agric. Kyoto Imp. Univ. 47:34, 1940.

Hab. On *Lycoris radiata* HERB. (Higanbana).

Pref. Fukuoka: Ito-mura, Itoshima (May 26, 1942, S. Katsuki); Toyotsu-mura, Miyako (Feb. 9, 1952, T. Hino).

This fungus is new in Kyushu.

(28) *Septoria nambuana* P. HENN.

Sacc. Syll. Fung. 18:389, 1906; Naito, Mem. Coll. Agri. Kyoto Imp. Univ. 47:35-36, 1940,

Hab. On *Lysimachia japonica* THUNB. (Konasubi).

Pref. Kagoshima: Makurazaki-city (April 30, 1950, S. Katsuki),

The present fungus is a species new to Kyushu,