

琉球大学学術リポジトリ

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A List of Ustilaginales found in Formosa and the Ryukyu Islands¹⁾

By

Naohide HIRATSUKA* and Yasuyuki HIRATSUKA**

1. **Burrillia ajarekari** Thirumalachar in *Mycologia*, XXXIX, p. 607, 1947. (Ling in *Mycologia*, XLI, p. 256, 1949; Farlowia, IV, p. 313, 1953).

Syn. *Stereosorus monochoriae* Sawada, *Descript. Cat. Formosan Fungi*, VIII, p. 45, text-fig. & pl. III, figs. 2~4, 1944 (*nom. nud.*).

Burrillia monochoriae Sawada in litt.

Hab. On *Monochoria vaginalis* Presl (*Konagi*). *Formosa*:—Prov. Taihoku: Taihoku (July 17, 1942, K. Sawada).

2. **Cintractia axicola** (Berk.) Cornu in *Ann. Sci. Nat. Bot.* (VI), XV, p. 279, 1883. (S. Ito, *Myc. Fl. Jap.* II-1, p. 72, 1936; Ling in *Mycologia*, XLI, p. 264, 1949; XLII, p. 646, 1950; Farlowia, IV, p. 335, 1953; Sawada, *Descript. Cat. Formosan Fungi*, II, p. 78, 1922).

Syn. *Cintractia fimbristylis-kagiensis* Sawada, *Descript. Cat. Formosan Fungi*, II, p. 79, 1922 (*nom. nud.*).

Cintractia fimbristylis-kagiensis Sawada ex S. Ito in *Transact. Sapporo Nat. Hist. Soc.* XIV, p. 91, 1935. (S. Ito, *Myc. Fl. Jap.* II-1, p. 66, 1936).

Cintractia suedae Sawada, *Descript. Cat. Formosan Fungi*, p. 81 & pl. IV, figs. 12~16, 1922 (*nom. nud.*).

Cintractia suedae Sawada ex S. Ito in *Transact. Sapporo Nat. Hist. Soc.* XIV, p. 91, 1935. (S. Ito, *Myc. Fl. Jap.* II-1, p. 66 & fig. 65, 1936).

Hab. On *Fimbristylis diphylla* Vahl (*Tentsuki*). *Formosa*:—Prov. Taihoku: Taihoku (Nov. 12, 1920, H. Sueda, *type* of *Cintractia suedae* Sawada!). Prov. Taichu: Taichu (Aug. 6, 1911, Y. Fujikuro).

1) Contributions from the Laboratories of Phytopathology and Mycology, Faculty of Agriculture, Tokyo University of Education. no. 33, also, Contributions from Laboratory of Phytopathology, Agriculture & Home Economics Division, University of the Ryukyus no. 7.

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On *Fimbristylis kagiensis* Hayata (*Kagi-tentsuki*). *Formosa*:—Prov. Taichu: Taichu (Oct. 11, 1913, Y. Fujikuro, *type* of *Cintractia fimbristylis-kagiensis* Sawada!).

3. ***Cintractia caricis*** (Pers.) Magnus in Abhandl. Bot. Ver. Prov. Brand. XXXVII, p. 79, 1895.

Hab. On *Carex apodostachya* Ohwi (*Taiwan-yamasuge*). *Formosa*:—Prov. Shinchiku: Mt. Taiha (July 16, 1935, Y. Hashioka).

4. ***Cintractia limitata*** Clinton in Proc. Bost. Soc. Nat. Hist. XXXI, p. 399, 1904. (Ling in Mycologia, XLII, p. 649, 1950; Farlowia, IV, p. 336, 1953).

Syn. *Cintractia axicola* Cornu var. *minor* Clinton in Proc. Bost. Soc. Nat. Hist. XXXI, p. 406, 1904. (Sawada in Transact. Nat. Hist. Soc. Formosa, no. 19, p. 4, 1914; Descript. Cat. Formosan Fungi, I, p. 343 & pl. X, figs. 13~14, 1919).

Cintractia minor Jackson in Mycologia, XII, p. 153, 1920. (S. Ito, Myc. Fl. Jap. II-1, p. 73 & fig. 72, 1936; Ling in Mycologia, XLI, p. 264, 1949).

Cintractia peribebuyensis Sawada, Descript. Cat. Formosan Fungi, II, p. 80, 1922 (*nom. nud.*).

Hab. On *Cyperus compressus* L. (*Kugugayatsuri*). *Formosa*:—Prov. Takao: Heito (Oct. 30, 1911, Y. Fujikuro). Prov. Taito: Kari-magaru (May 21, 1911, K. Sawada).

On *Cyperus digitatus* Roxb. (*O-hahakigayatsuri*). *Formosa*:—Prov. Taihoku: Taihoku (Aug. 31, 1917, Y. Fujikuro). Prov. Taichu: Sharoho (Sept. 28, 1918, K. Sawada); Taichu (July 2, 1936, Y. Hashioka).

On *Cyperus malaccensis* Roxb. (*Shichito-i*). *Formosa*:—Prov. Taihoku: Taihoku (Sept. 27, 1917, Y. Fujikuro); Hokuto (Nov. 18, 1930, K. Sawada).

On *Cyperus rotundus* L. (*Hama-suge*). *Formosa*:—Prov. Taihoku: Taihoku (June 21, 1944, K. Sawada).

5. ***Cintractia scleriae*** (DC.) Ling in Mycologia, XLIII, p. 314, 1951. (Ling in Farlowia, IV, p. 336, 1953).

Syn. *Uredo scleriae* de Candolle in Poiret, Encycl. Meth. Bot. VIII, p. 879, 1808.

Cintractia albida S. Ito in Transact. Sapporo Nat. Hist. Soc. XIV, p. 93, 1935. (S. Ito, Myc. Fl. Jap. II-1, p. 74 & fig. 73, 1936; Sawada, Descript. Cat. Formosan Fungi, VII, p. 42, 1942).

Cintractia leucoderma (non Hennings) Ling in Mycologia, XLI, p. 264, 1949.

Hab. On *Rhynchospora corymbosa* Britt. (*Yaeyama-aburasuge*). *Formosa*:—Prov. Taihoku: Shichiseizan (May, 1932, T. Suzuki, *type*

of *Cintractia albida* S. Ito!).

6. **Dermatosorus eleocharidis** Sawada ex Ling in *Mycologia*, XLI, p. 268 & fig. 1, C & 2, D, 1949. (Ling in *Farlowia*, IV, p. 343, 1953).

Hab. On *Eleocharis dulcis* Trin. (*Kuroguwai*). *Formosa*:—Prov. Takao: Kosan (Kangsan) (April 10, 1919, Y. Shimada, *type*!).

7. **Doassansia opaca** Setchell in *Proc. Amer. Acad. Arts & Sci.* XXVI, p. 15, 1891. (Ling in *Mycologia*, XLI, p. 256, 1949; *Farlowia*, IV, p. 313, 1953; Sawada, *Descript. Cat. Formosan Fungi*, IX, p. 14, 1944).

Hab. On *Sagittaria trifolia* L. var. *typica* Mak. (*Omodaka*). *Formosa*:—Prov. Taihoku: Taihoku (May 28, 1919, H. Sueda).

8. **Entyloma australe** Spegazzini in *Anal. Soc. Ci. Argent.* X, p. 5, 1880. (Ling in *Mycologia*, XLI, p. 254, 1949; *Farlowia*, IV, p. 310, 1953; Sawada, *Descript. Cat. Formosan Fungi*, X, p. 35, 1944).

Hab. On *Physalis angulata* L. (*Sennari-hodzuki*). *Formosa*:—Prov. Shinchiku: Takuran (April 20, 1907, R. Suzuki). Prov. Taichu: Inrin (Dec. 12, 1919, E. Kurosawa). Prov. Kawarenko: Gyokuri (May 13, 1909, K. Sawada).

9. **Entyloma compositarum** Farlow in *Bot. Gaz.* VIII, p. 275, 1883. (Ling in *Farlowia*, IV, p. 310, 1953).

Syn. *Entyloma senecionis* Sawada in *Jour. Taihoku Soc. Agric. & Forestr.* VII, p. 27, 1934 (*nom. nud.*); *Descript. Cat. Formosan Fungi*, IX, p. 14 & pl. I, fig. 17, 1944 (*nom. nud.*).

Entyloma senecionis Sawada ex Ling in *Mycologia*, XLI, p. 255 & fig. 2, B, 1949.

Hab. On *Senecio formosana* Kitamura (*Taiwan-sawagiku*). *Formosa*:—Prov. Taichu: Mt. Noko (Aug. 4, 1928, K. Sawada, *type* of *Entyloma senecionis* Sawada!).

10. **Entyloma eleocharidis** Ling in *Mycologia*, XLI, p. 255 & fig. 2, C, 1949. (Ling in *Farlowia*, IV, p. 310 & fig. 1, B, 1953).

Syn. *Ustilago eleocharidis* Sawada, *Descript. Cat. Formosan Fungi*, VIII, p. 39 & pl. III, fig. 1, 1943 (*nom. nud.*).

Hab. On *Eleocharis dulcis* Trin. (*Kuroguwai*). *Formosa*:—Prov. Taihoku: Keibi (Nov. 16, 1934, K. Sawada).

11. **Entyloma guaraniticum** Spegazzini in *Anal. Soc. Ci. Argent.* XVII, p. 127, 1884. (Ling in *Farlowia*, IV, p. 310, 1953).

Syn. *Entyloma bidentis* (non Hennings) Ling in *Mycologia*, XLI, p. 254, 1949; Sawada, *Descript. Cat. Formosan Fungi*, VIII, p. 43, 1943.

Protomyces bidentis Sawada, Descript. Cat. Formosan Fungi, II, p. 53, 1922 (*nom. nud.*).

Hab. On *Bidens pilosa* L. (*Shirobana-sendangusa*). *Formosa*:—Prov. Taihoku: Taihoku (June 5, 1942, K. Sawada).

12. **Entyloma microsporium** (Ung.) Schröter in Rabenh. Fung. Eur. no. 1872, 1874. (Ling in Mycologia, XLI, p. 255, 1949; Farlowia, IV, p. 311, 1953; Sawada in Transact. Nat. Hist. Soc. Formosa, XXXII, p. 28, 1942; Descript. Cat. Formosan Fungi, VIII, p. 44, 1943).

Hab. On *Ranunculus vernyi* Franch. et Sav. (*Kitsunenobotan*). *Formosa*:—Prov. Taihoku: Taihoku (May 13, 1917, March 7, 1923, March 17, 1925 & April 4, 1927, K. Sawada); Shinten (April 1, 1926, K. Sawada).

13. **Entyloma oryzae** Sydow in Ann. Myc. XII, p. 197, 1914. (S. Ito, Myc. Fl. Jap. II-1, p. 98, 1936; Ling in Mycologia, XLI, p. 256, 1949; Farlowia, IV, p. 311, 1953).

Ectostoma oryzae Sawada, Descript. Cat. Formosan Fungi, IV, p. 116, 1928 (*nom. nud.*).

Hab. On *Oryza sativa* L. (*Ine*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (Oct. 15, 1906, R. Suzuki; Oct. 20, 1926, K. Sawada).

14. **Farysia butleri** (Syd.) Sydow in Ann. Myc. XVII, p. 42, 1919. (Ling in Farlowia, IV, p. 338, 1953).

Syn. *Ustilago butleri* Sydow in Ann. Myc. IV, p. 424, 1906.

Farysia caricis-filicinae S. Ito in Transact. Sapporo Nat. Hist. Soc. XIV, p. 91, 1935. (S. Ito, Myc. Fl. Jap. II-1, p. 60 & fig. 60, 1936; Ling in Mycologia, XLI, p. 265, 1949; Sawada, Descript. Cat. Formosan Fungi, VII, p. 41, 1942).

Farysia olivacea (Sawada in Transact. Nat. Hist. Soc. Formosa, XXXII, p. 29, 1942; Descript. Cat. Formosan Fungi, VIII, p. 42, 1943).

Hab. On *Carex cruciata* Wahl. (*Carex filicina* Auct.) (*Hanabishisuge*). *Formosa*:—Prov. Taihoku: Sozan (Oct. 10, 1927, K. Sawada); Taihoku (Nov. 7, 1921, K. Sawada). Prov. Taichu: Jitsugetsutan (Sept. 17, 1929, Y. Kudo & S. Sasaki, *type* of *Farysia caricis-filicinae* S. Ito!); Taichu (Nov. 6, 1932, Y. Hashioka); Sekikaku (Dec. 22, 1927, K. Sawada).

15. **Melanopsichium pennsylvanicum** Hirschhorn, Notas Mus. La Plata, Bot. VI, p. 149, 1941. (Ling in Mycologia, XLI, p. 263, 1949; Farlowia, IV, p. 337, 1953).

Syn. *Melanopsichium austro-americanum* Auct. (S. Ito, Myc. Fl. Jap. II-1, p. 62, 1936; Sawada, Descript. Cat. Formosan Fungi, I, p. 340, 1919).

Hab. On *Polygonum lapathifolium* Ait (*Sanae-tade*, *Shiro-inu-tade*). *Formosa*:—Prov. Taihoku: Taihoku (July 10, 1918 & Aug. 4, 1924, K. Sawada). On *Polygonum minus* Hudson(?). *Formosa*:—Prov. Taihoku: Taihoku (Aug., 1934, Y. Hashioka).

16. **Sorosporium andropogonis-aciculati** (Petch) Petch in Ann. Bot. V, p. 223, 1912. (S. Ito, Myc. Fl. Jap. II-1, p. 77, 1936; Ling in Mycologia, XLI, p. 266, 1949; Sawada, Descript. Cat. Formosan Fungi, II, p. 83, 1922).

Syn. *Ustilago andropogonis-aciculati* Petch in Ann. Roy. Bot. Gard. Peradeniya, IV, p. 304, 1909.

Hab. On *Andropogon aciculatus* Retz. (*Okinawa-michishiba*). *Formosa*:—Prov. Taihoku: Shizangan (Jan. 19, 1928, K. Sawada).

17. **Sorosporium flagellatum** Sydow et Butler in Ann. Myc. V, p. 489, 1907. (S. Ito, Myc. Fl. Jap. II-1, p. 82, 1936; Ling in Mycologia, XLI, p. 266, 1949; Farlowia, IV, p. 341, 1953; Sawada, Descript. Cat. Formosan Fungi, I, p. 345 & pl. X, figs. 10~12, 1919).

Hab. On *Ischaemum timorense* Kunth. var. *peguense* Hack. (*Kechimoru-kamonohashi*). *Formosa*:—Prov. Taihoku: Taihoku (April 24, 1911, Y. Fujikuro).

18. **Sorosporium formosanum** (Sawada) Sawada, Descript. Cat. Formosan Fungi, IV, p. 29, 1928. (S. Ito, Myc. Fl. Jap. II-1, p. 82 & fig. 80, 1936; Ling in Mycologia, XLI, p. 266 & fig. 1, B, 1949; Farlowia, IV, p. 342, 1953).

Syn. *Ustilago formosana* Sawada, Descript. Cat. Formosan Fungi, I, p. 326 & pl. IX, fig. 28, 1919 (*nom. nud.*).

Ustilago formosana Sawada ex Tanaka in Mycologia, XIV, p. 89, 1922; Saccardo, Syll. Fung. XXIII, p. 612.

Sorosporium yoshinagae Zundel in Mycologia, XXXI, p. 589, 1939.

Hab. On *Panicum repens* L. (*Hai-kibi*). *Formosa*:—Prov. Taihoku: Taihoku (April 23, 1907, Y. Fujikuro; April 12 & June 1, 1932, Y. Hashioka; Oct. 24, 1923, June 28, 1925, May 12, 1927 & April 13, 1928, K. Sawada). Prov. Taichu: Taichu (Jan. 12, 1941, N. Hiratsuka & Y. Hashioka). Prov. Takao: Shajyo~Shijyu-kei (Jan. 18, 1941, N. Hiratsuka). *Ryukyu Isls.*:—Okinawa: Naha-shi (Shuri) (April 25, 1953, N. Hiratsuka); Itoman-machi (Jan. 21, 1940, N. Hiratsuka & Y. Taira); Chinen-mura (April 17, 1955, M. Tamori); Sashiki-mura (Jan. 20, 1940, N. Hiratsuka & Y. Taira); Mt. Yonaha-dake (May 30, 1953, N. Hiratsuka); Haneji-mura (Jan. 15, 1940, N. Hiratsuka & Y. Taira); Nagomachi (May 8, 1953, N. Hiratsuka); Osato-mura (Jan. 20, 1940, N. Hiratsuka & Y. Taira); Takamine-mura (May 15, 1953, N. Hiratsuka). Yakushima: Onoaida~Haro (Aug. 5, 1954, S. Sato & Y. Hiratsuka);

Kuio (Aug. 3, 1954, S. Sato & Y. Hiratsuka).

19. *Sorosporium paspali-thunbergii* (P. Henn.) S. Ito in Transact. Sapporo Nat. Hist. Soc. XIV, p. 94, 1935. (S. Ito, Myc. Fl. Jap. II-1, p. 81 & fig. 79, 1936; Ling in Mycologia, XLI, p. 267, 1949; Farlowia, IV, p. 342, 1953).

Syn. *Ustilago paspali-thunbergii* Hennings in Hedwigia, XLIII, p. 140, 1904.

Sorosporium paspali Mc Alpine, Smuts of Australia, p. 180 & pl. XLIV, figs. 137~139, 1910. (Sawada, Descript. Cat. Formosan Fungi, II, p. 84, 1922).

Hab. On *Paspalum orbiculare* G. Forst. (*Suzumenokobie*). *Formosa*:—Prov. Taihoku: Taihoku (Oct. 20, 1923 & May 13, 1928, K. Sawada; July 8, 1942, Y. Hashioka). *Ryukyu Isls.*:—Okinawa: Hentona (May 29, 1953, N. Hiratsuka); Nago-machi (May 9, 1953, N. Hiratsuka). Yakushima: Onoaida (Aug. 3, 1954, S. Sato & Y. Hiratsuka).

20. *Sphacelotheca cruenta* (Kühn) Potter in Phytopathology, II, p. 98, 1912. (S. Ito, Myc. Fl. Jap. II-1, p. 55 & fig. 56, 1936; Ling in Mycologia, XLI, p. 261, 1949; Farlowia, IV, p. 329, 1953).

Syn. *Ustilago cruenta* Kühn in Hamburger Garten- u. Blumen Ztg. XXVIII, p. 177, 1872. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 392, 1914).

Sphacelotheca sorghi (non Clinton) (Sawada, Descript. Cat. Formosan Fungi, II, p. 76, 1922).

Hab. On *Sorghum vulgare* Pers. (*Andropogon sorghum* Brot.) (*Morokoshi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (June 5 & July 6, 1908, Y. Fujikuro; June 20, 1911, K. Sawada). *Ryukyu Isls.*:—Okinawa: Nago-machi (July 14, 1907, T. Miyagi).

21. *Sphacelotheca hydropiperis* (Schum.) de Bary ex Liro, Ustil. Finn. I, p. 2, 1924. (S. Ito, Myc. Fl. Jap. II-1, p. 51, 1936; Ling in Mycologia, XLI, p. 262, 1949; Farlowia, IV, p. 330, 1953).

Syn. *Sphacelotheca polygoni-senticosi* Miyabe et Takahashi ex S. Ito in Transact. Sapporo Nat. Hist. Soc. XIV, p. 90, 1935. (Sawada, Descript. Cat. Formosan Fungi, X, p. 34, 1944).

Hab. On *Polygonum caespitosum* Bl. (*Hana-tade*). *Formosa*:—Prov. Taihoku: Taihoku (May 24, 1917, K. Sawada).

On *Polygonum caespitosum* Bl. var. *longisetum* Stew. (*Inu-tade*). *Formosa*:—Prov. Taihoku: Taihoku (April 3, 1915, Y. Fujikuro). Prov. Taichu: Taichu (July 1, 1936, Y. Hashioka).

On *Polygonum senticosum* Franch. et Sav. (*Mamakonoshirinugui*). *Formosa*:—Prov. Taihoku: Mt. Kan-non (Jan. 10, 1915, K. Sawada).

On *Polygonum* sp. *Formosa*:—Prov. Tainan: Mt. Arisan (Jan. 17,

1941, N. Hiratsuka & Y. Hashioka).

22. **Sphacelotheca isachnes** (Syd.) Ling in Mycologia, XLI, p. 262, 1949. (Ling in Farlowia, IV, p. 330, 1953).

Syn. *Ustilago isachnes* Sydow in Ann. Myc. X, p. 77, 1912.

Ustilago isachnes Sawada, Descript. Cat. Formosan Fungi, X, p. 33 & pl. III, figs. 4 & 5, 1944 (*nom. nud.*).

Hab. On *Isachne globosa* O. Kuntze (*Chigozasa*). *Formosa*:—Prov. Takao: Hozan (Oct. 28, 1911, Y. Fujikuro).

23. **Sphacelotheca reiliana** (Kühn) Clinton in Jour. Myc. VIII, p. 141, 1902. (Ling in Mycologia, XLI, p. 262, 1949; Farlowia, IV, p. 332, 1953; Sawada, Descript. Cat. Formosan Fungi, II, p. 74, 1922).

Syn. *Ustilago reiliana* Kühn in Rabh., Fung. Eur. no. 1998, 1875. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 392, 1914).

Sorosporium reilianum Mc Alpine, Smuts of Australia, p. 181 & pl. XII, XIII, XXX, figs. 37~43, 1910. (S. Ito, Myc. Fl. Jap. II-1, p. 77 & fig. 76, 1936; Sawada, Descript. Cat. Formosan Fungi, V, p. 45, 1928).

Hab. On *Sorghum vulgare* Pers. (*Andropogon sorghum* Brot.) (*Morokoshi*) (*cult.*). *Formosa*:—Prov. Taichu: Taichu (May 22, 1911, K. Sawada).

24. **Sphacelotheca sorghi** (Link) Clinton in Jour. Myc. VIII, p. 140, 1892. (S. Ito, Myc. Fl. Jap. II-1, p. 56 & fig. 57, 1936; Ling in Farlowia, IV, p. 333, 1953).

Syn. *Ustilago cruenta* (non Kühn) Sawada, Descript. Cat. Formosan Fungi, II, p. 69, 1922 (*nom. nud.*).

Hab. On *Sorghum vulgare* Pers. (*Morokoshi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (May 10, June 10, July 7, Sept. 7, Sept. 14 & Sept. 17, 1908, Y. Fujikuro; June 5 & Sept. 20, 1908, K. Sawada).

25. **Sphacelotheca sorghicola** (Speg.) Zundel in Mycologia, XXII, p. 131, 1930. (S. Ito, Myc. Fl. Jap. II-1, p. 56, 1936).

Syn. *Ustilago sorghicola* Spegazzini, Myc. Argent. II, p. 58, 1902. (Sawada, Descript. Cat. Formosan Fungi, I, p. 335 & pl. IX, fig. 29, 1919).

Hab. On *Sorghum vulgare* Pers. (*Morokoshi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (June 30, 1910, Y. Fujikuro).

26. **Sphacelotheca tanglinensis** (Tracy et Earle) Zundel in Mycologia, XXXVI, p. 406, 1944. (Ling in Mycologia, XLI, p. 263, 1949; Farlowia, IV, p. 334, 1953).

Syn. *Ustilago tonglinensis* Tracy et Earle in Bull. Torr. Bot. Club, XXII, p. 175, 1895. (S. Ito, Myc. Fl. Jap. II-1, p. 19 & fig. 14,

1936; Sawada, Descript. Cat. Formosan Fungi, I, p. 336, 1919).

Ustilago ischaemi-akoensis Sawada, Descript. Cat. Formosan Fungi, X, p. 33 & pl. III, figs. 1 & 2, 1944 (*nom. nud.*).

Hab. On *Ischaemum akoense* Honda (*Ko-taiwan-aiashi*). *Formosa*:—Prov. Takao: Hozan (Oct. 28, 1911, Y. Fujikuro).

On *Ischaemum ciliare* Retz. var. *genuinum* Hack. (*Hime-kamono-hashiki*). *Formosa*:—Prov. Taihoku: Taihoku (Oct. 22, 1923, April 28, 1924 & May 12, 1927, K. Sawada; April 24 & May, 1932, Y. Hashioka); Fukikaku (April 3, 1920, K. Sawada).

27. **Tilletia alopecuri** (Saw.) Ling in Mycologia, XLI, p. 252 & fig. 1, A & 2, A, 1949. (Ling in Farlowia, IV, p. 306, 1953).

Syn. *Entyloma alopecuri* Sawada, Descript. Cat. Formosan Fungi, II, p. 86 & pl. IV, figs. 17~24, 1922 (*nom. nud.*).

Entyloma alopecuri Sawada ex S. Ito in Transact. Sapporo Nat. Hist. Soc. XIV, p. 94, 1935. (S. Ito, Myc. Fl. Jap. II-1, p. 105 & fig. 102, 1936).

Hab. On *Alopecurus geniculatus* L. (*Suzumenoteppo*). *Formosa*:—Prov. Taihoku: Taihoku (March 17, 1924 (*type!*) & March 5, 1929, K. Sawada).

28. **Tilletia horrida** Takahashi in Bot. Mag. Tokyo, X, p. 20 & pl. III, figs. 9~10, 1898. (S. Ito, Myc. Fl. Jap. II-1, p. 94 & fig. 91, 1936; Ling in Farlowia, IV, p. 308, 1953; Sawada, Descript. Cat. Formosan Fungi, IV, p. 21, 1928).

Syn. *Neovossia horrida* Padwick et Azmatullah Khan in Mycol. Papers, Imp. Myc. Inst., no. 10, p. 2, 1944. (Ling in Mycologia, XLI, p. 254, 1949).

Hab. On *Oryza sativa* L. (*Ine*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (Taipeh) (July 18 & Oct. 23, 1925, Oct. 28, 1926 & Oct. 31, 1928, K. Sawada).

29. **Tolyposporium bullatum** (Schröt.) Schröter, Pilze Schles. I, p. 276, 1887. (Ling in Mycologia, XLI, p. 268, 1949; Farlowia, IV, p. 343, 1953; Sawada in Transact. Nat. Hist. Soc. Formosa, XXXII, p. 127, 1942; Descript. Cat. Formosan Fungi, VIII, p. 43, 1943).

Hab. On *Echinochloa crus-galli* Beauv. subsp. *submutica* Honda (*No-bie*). *Formosa*:—Prov. Taihoku: Taihoku (Nov. 5, 1927, K. Sawada).

30. **Ustilago avenae** (Pers.) Rostrup in Overs. K. Dansk. Vid. Selsk. Forh. (1890), p. 13, 1890. (Ling in Mycologia, XLI, p. 256, 1949; Farlowia, VI, p. 316, 1953).

Syn. *Ustilago avenae* (Pers.) Jensen, Le Carb. d. Céréales, p. 4, 1889. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 393, 1914; S. Ito,

Myc. Fl. Jap. II-1, p. 11 & fig. 5, 1936; Sawada, Descript. Cat. Formosan Fungi, II, p. 67, 1922).

Hab. On *Avena sativa* L. (*Ma-karasumugi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (June 4, 1909, K. Sawada). Prov. Tainan: Kagi (Jan. 13, 1941, N. Hiratsuka & Y. Hashioka).

31. **Ustilago crameri** Körnicke ex Fuckel, Symb. Myc. Nachtr. II, p. 11, 1873. (S. Ito, Myc. Fl. Jap. II-1, p. 9 & fig. 3, 1936; Ling in Mycologia, XLI, p. 256, 1949; Farlowia, IV, p. 317, 1953; Sawada, Descript. Cat. Formosan Fungi, I, p. 309 & pl. X, fig. 8, 1919).

Hab. On *Setaria italica* Beauv. var. *germanica* Trin. (*Awa*) (*cult.*). *Formosa*:—Prov. Taito: Shinshichiyakusen (May 29, 1911, K. Sawada).

32. **Ustilago crus-galli** Tracy et Earle in Bull. Torr. Bot. Club, XXII, p. 175, 1895. (Ling in Mycologia, XLI, p. 256, 1949; Farlowia, IV, p. 318, 1935; Sawada, Descript. Cat. Formosan Fungi, VIII, p. 39, 1943).

Hab. On *Echinochloa crus-galli* Beauv. subsp. *submutica* Honda (*No-bie*). *Formosa*:—Prov. Taihoku: Taihoku (June 17, 1927, K. Sawada).

33. **Ustilago cynodontis** Hennings ex Brefeld, Unters. Gesamtgeb. Myk. XII, p. 105, 1895. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 395, 1914; S. Ito, Myc. Fl. Jap. II-1, p. 23 & fig. 20, 1936; Ling in Mycologia, XLI, p. 256, 1949; Farlowia, IV, p. 318, 1953; Sawada, Descript. Cat. Formosan Fungi, I, p. 311, 1919).

Hab. On *Cynodon dactylon* Pers. (*Gyogi-shiba*). *Formosa*:—Prov. Taihoku: Taihoku (May 11, 1928, K. Sawada; April 12, 1932, Y. Hashioka).

34. **Ustilago emodensis** Berkeley in Hook., Jour. Bot. III, p. 202, 1851. (Ling in Mycologia, XLI, p. 257, 1949; Farlowia, IV, p. 318, 1953; Sawada, Descript. Cat. Formosan Fungi, I, p. 314 & pl. IX, figs. 24~27, 1919).

Syn. *Farysia emodensis* Sydow in Ann. Myc. XVII, p. 42, 1919. (S. Ito, Myc. Fl. Jap. II-1, p. 61 & fig. 61, 1936; Sawada, Descript. Cat. Formosan Fungi, X, p. 35, 1944).

Lirioa emodensis Ciferri in Nuovo G. Bot. Ital. (n.s.), XL, p. 26, 1933.

Hab. On *Polygonum chinense* L. (*Tsuru-soba*). *Formosa*:—Prov. Taihoku: Taihoku (March 23, 1919, Feb. 8, 1925, March 30, 1928, May 2, 1930 & March 3, 1944, K. Sawada); Shinko (April 12, 1924, K. Sawada).

35. *Ustilago esculenta* Hennings in Hedwigia, XXXIV, p. 10, 1895. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 486, 1914; S. Ito, Myc. Fl. Jap. II-1, p. 24 & fig. 21, 1936; Ling in Mycologia, XLI, p. 259, 1949; Farlowia, IV, p. 319, 1953; Sawada, Descript. Cat. Formosan Fungi, I, p. 319 & pl. X, figs. 1~3, 1919).

Syn. *Melanopsichium esculentum* Mundkur et Thirumalachar in Myc. Papers (Imp. Myc. Inst., Kew), no. 16, p. 2, 1946.

Hab. On *Zizania aquatica* L. (*Makomo*). *Formosa*:—Prov. Taihoku: Taihoku (Nov. 18, 1933, Y. Hashioka; Oct. 31, 1923 & Nov. 2, 1927, K. Sawada); Naiho (Dec. 17, 1908, K. Sawada). *Ryukyu Isls.*:—Okinawa: Haneji-mura (Dec. 16, 1956, S. Shimabukuro).

36. *Ustilago hordei* (Pers.) Lagerheim in Mitteil. Bad. Bot. Ver. p. 70, 1889. (S. Ito, Myc. Fl. Jap. II-1, p. 8 & fig. 2, 1936; Ling in Mycologia, XLI, p. 259, 1949; Farlowia, IV, p. 320, 1953, p.p.).

Syn. *Ustilago hordei* Kellerman et Swingle in Ann. Rept. Kans. Agric. Stat. II, p. 268, 1890. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 424, 1914; Sawada, Descript. Cat. Formosan Fungi, I, p. 328 & pl. X, figs. 4~5, 1919).

Hab. On *Hordeum sativum* Jess. var. *hexastichon* Hack. (*O-mugi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (March 8, 1911, K. Sawada). Prov. Tainan: Chikushikyaku (Feb. 18, 1920, K. Sawada). *Ryukyu Isls.*:—Okinawa: Nago-machi (May 18, 1953, N. Hiratsuka).

On *Hordeum sativum* Jess. var. *vulgare* Hack. f. *coeleste* Mak. (*Hadaka-mugi*) (*cult.*). *Ryukyu Isls.*:—Okinawa: Ginoza-mura (April 17, 1954, S. Shimabukuro); Yabu-mura (May 8, 1953, S. Shimabukuro).

37. *Ustilago kollerii* Wille in Bot. Notiser (1893), p. 10, 1893. (Ling in Mycologia, XLI, p. 259, 1949).

Syn. *Ustilago levis* (Kell. et Swingle) Magnus in Abhandl. Bot. Ver. Prov. Brand. XXXVII, p. 69, 1896. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 393, 1914; Sawada, Descript. Cat. Formosan Fungi, II, p. 71, 1922; S. Ito, Myc. Fl. Jap. II-1, p. 7 & fig. 1, 1936).

Hab. On *Avena sativa* L. (*Ma-karasumugi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (June 4, 1909, K. Sawada). *Ryukyu Isls.*:—Okinawa: Goeku-mura (Goza) (May 1, 1953, N. Hiratsuka & S. Shimabukuro).

38. *Ustilago kusanoi* Sydow in Mem. Herb. Boiss. IV, p. 4, 1900. (S. Ito, Myc. Fl. Jap. II-1, p. 20 & fig. 16, 1936; Ling in Mycologia, XLI, p. 259, 1949; Farlowia, IV, p. 321, 1953; Sawada, Descript. Cat. Formosan Fungi, V, p. 41, 1931).

Hab. On *Miscanthus sinensis* Anders. (*Susuki*). *Formosa*:—Prov. Taihoku: Taihoku (March 13, 1918, March 25, 1926 & April

22, 1929, K. Sawada); Kizan (Feb. 11, 1928, K. Sawada). *Ryukyu Isls.*:—Okinawa: Yona~Ada (Jan. 13, 1957, N. & T. Hiratsuka); Naha-shi (Shuri) (May, 1953, N. Hiratsuka); Kiyan-saki (Jan. 16, 1957, N. & T. Hiratsuka).

39. *Ustilago neglecta* Niessl ex Rabenhorst, Fung. Eur. no. 1200, 1868. (Ling in Mycologia, XLI, p. 259, 1949; Farlowia, IV, p. 321, 1953).

Syn. *Ustilago panici-glauci* Winter, Pilze Deutschl. I, p. 97, 1884. (S. Ito, Myc. Fl. Jap. II-1, p. 17 & fig. 11, 1936; Sawada, Descript. Cat. Formosan Fungi, I, p. 333 & pl. X, fig. 9, 1919).

Hab. On *Setaria glauca* Beauv. (*Kin-enokoro*). *Formosa*:—Prov. Taichu: Sharoku (Aug. 8, 1911, Y. Fujikuro).

40. *Ustilago nuda* (Jens.) Rostrup in Tids. Landök. VIII, p. 745, 1889. (S. Ito, Myc. Fl. Jap. II-1, p. 12 & fig. 6, 1936; Ling in Mycologia, XLI, p. 259, 1949; Farlowia, IV, p. 322, 1953, p.p.).

Syn. *Ustilago nuda* Kellerman et Swingle in Ann. Rept. Kans. Agric. Stat. II, p. 277, 1890. (Fujikuro in Bot. Mag. Tokyo, XXXVIII, p. 424, 1914; Sawada, Descript. Cat. Formosan Fungi, I, p. 331 & pl. IX, figs. 6~7, 1919).

Hab. On *Hordeum sativum* Jess. var. *hexastichon* Hack. (*O-mugi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (March 10, 1910, April 24, 1928 & April 27, 1931, K. Sawada).

41. *Ustilago scitaminea* Sydow in Ann. Myc. XXII, p. 281, 1924. (S. Ito, Myc. Fl. Jap. II-1, p. 25 & fig. 22, 1936; Ling in Mycologia, XLI, p. 260, 1949; Farlowia, IV, p. 323, 1953; Matsumoto, Monogr. Sugarcane diseases in Taiwan, p. 37 & pl. XIII, A, 1952; Sawada, Descript. Cat. Formosan Fungi, VIII, p. 40, 1943).

Syn. *Ustilago sacchari* (non Rabh.) (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 484, 1914).

Hab. On *Saccharum officinarum* L. (*Sato-kibi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (Aug. 25, 1924, K. Sawada). Prov. Tainan: Mato (Jan. 8, 1921, K. Sawada). Prov. Shinchiku: Tohin (June 23, 1929, K. Sawada). *Ryukyu Isls.*:—Yaeyama Isls. (1906, T. Kuroiwa).

42. *Ustilago shimadae* Sawada ex Ling in Mycologia, XLI, p. 260, 1949. (Ling in Farlowia, IV, p. 323, 1953).

Syn. *Ustilago shimadae* Sawada, Descript. Cat. Formosan Fungi, X, p. 34 & pl. III, figs. 5~7, 1944 (*nom. nud.*).

Hab. On a species belonging to Gramineae. *Formosa*:—Prov. Taihoku: Shichiseitonzan (April 3, 1911, Y. Shimada, *type!*).

43. *Ustilago shiraiana* Hennings in Bot. Jahrb. XXVIII, p. 260,

1901. (S. Ito, Myc. Fl. Jap. II-1, p. 28 & fig. 26, 1936; Ling in Mycologia, XLI, p. 260, 1949; Farlowia, IV, p. 323, 1953; Sawada, Descript. Cat. Formosan Fungi, IV, p. 28, 1928).

Hab. On *Phyllostachys makinoi* Hayata (*Kei-chiku*). *Formosa*:—Prov. Taihoku: Tansui (April 16, 1927, K. Sawada); Shinten (May 6, 1934, K. Sawada). Prov. Shinchiku: Hozansho (March 4, 1926, Y. Shimada); Chikuto-banchi (April 25, 1931, Y. Shimada).

On *Sinoarundinaria reticulata* Ohwi (*Ma-dake*). *Ryukyu Isls.*:—Okinawa: Nakijin (April 15, 1940, Y. Taira).

44. **Ustilago sparsa** Underwood in Bull. Torr. Bot. Club, XXIV, p. 86, 1897. (S. Ito, Myc. Fl. Jap. II-1, p. 19 & fig. 13, 1936; Ling in Mycologia, XLI, p. 260, 1949; Farlowia, IV, p. 324, 1953; Sawada, Descript. Cat. Formosan Fungi, II, p. 73, 1922).

Hab. On *Dactyloctenium aegyptiacum* Willd. (*Tatsunotsumegaya*). *Formosa*:—Prov. Tainan: Anpei (Nov. 4, 1908, K. Sawada).

45. **Ustilago sphaerogena** Burrill ex Ellis et Everhart, N. Amer. Fungi, no. 1892, 1887. (Ling in Mycologia, XLI, p. 260, 1949; Farlowia, IV, p. 325, 1953; Sawada, Descript. Cat. Formosan Fungi, VIII, p. 41, 1943).

Hab. On *Echinochloa crus-galli* Beauv. var. *submutica* Honda (*No-bie*). *Formosa*:—Prov. Taihoku: Taihoku (July 5, 1924, K. Sawada; July 8, 1916, Y. Fujikuro).

46. **Ustilago tritici** (Pers.) Rostrup in Overs. K. Dansk. Vid. Selsk. Forh. (1890), p. 15, 1890. (S. Ito, Myc. Fl. Jap. II-1, p. 13 & fig. 7, 1936; Ling in Mycologia, XLI, p. 260, 1949).

Syn. *Ustilago tritici* Jensen ex Kellerman et Swingle in Ann. Rept. Kans. Agric. Stat. II, p. 262, 1890. (Fujikuro in Bot. Mag. Tokyo, XXVIII, p. 485, 1914; Sawada, Descript. Cat. Formosan Fungi, I, p. 338, 1919).

Hab. On *Triticum sativum* Lam. var. *vulgare* Hack. (*Ko-mugi*) (*cult.*). *Formosa*:—Prov. Taihoku: Taihoku (April 2, 1917, Y. Fujikuro; Feb. 26, 1924, K. Sawada). *Ryukyu Isls.*:—Okinawa: Gushikawa-mura (Kume-shima) (Feb. 25, 1954, M. Nagayama).

47. **Ustilago tuberculiformis** Sydow in Ann. Myc. I, p. 22, 1903. (Ling in Mycologia, XLI, p. 261, 1949).

Syn. *Ustilago foliorum* S. Ito in Transact. Sapporo Nat. Hist. Soc. XIV, p. 88, 1935. (S. Ito, Myc. Fl. Jap. II-1, p. 43 & fig. 44, 1936; Sawada, Descript. Cat. Formosan Fungi, VII, p. 41, 1942; VIII, p. 40, 1943).

Hab. On *Polygonum runcinatum* Hamilt. ex D. Don (*Polygonum*

morrisonense Hayata) (*Niitaka-tanisoba*). *Formosa*:—Prov. Taihoku: Mt. Nankotaizan (July 29, 1934, Y. Hashioka). Prov. Taichu: Mt. Noko (Aug. 4, 1928, K. Sawada).

48. *Ustilago utriculosa* (Nees) Tulasne in Ann. Sci. Nat. Bot. (III), VII, p. 102, 1847. (Ling in Mycologia, XLI, p. 261, 1949).

Syn. *Ustilago cordai* Liro, Ustil. Finn. I, p. 12, 1924. (S. Ito, Myc. Fl. Jap. II-1, p. 42 & fig. 41, 1936; Ling in Farlowia, IV, p. 317, 1953; Sawada, Descript. Cat. Formosan Fungi, X, p. 32, 1944).

Ustilago reticulata Liro, Ustil. Finn. I, p. 20, 1924. (S. Ito, Myc. Fl. Jap. II-1, p. 42 & fig. 42, 1936; Ling in Farlowia, IV, p. 323, 1953; Sawada, Descript. Cat. Formosan Fungi, VIII, p. 40, 1943; X, p. 33, 1944).

Hab. On *Polygonum barbatum* L. (*Ke-date*). *Formosa*:—Prov. Tainan: Kagi (Nov. 9, 1909, K. Sawada).

On *Polygonum caespitosum* Bl. var. *longisetum* Stew. (*Inu-tade*). *Formosa*:—Prov. Taihoku: Taihoku (May 4, 1920 & Dec. 3, 1923, K. Sawada); Tansui (April 14, 1928, K. Sawada); Totanzan (April 20, 1930, K. Sawada).

On *Polygonum lapathifolium* L. (*Sanae-tade*). *Formosa*:—Prov. Taihoku: Taihoku (Feb. 20, 1925 & Feb. 15, 1930, K. Sawada; April 15, 1932, Y. Hashioka); Shizangan (Jan. 19, 1928, K. Sawada); Shinko (Feb. 1, 1914, K. Sawada).

On *Polygonum macranthum* Meisn. (*Polygonum japonicum* Meisn. var. *conspicuum* Nakai) (*O-sakura-tade*). *Formosa*:—Prov. Taihoku.

On *Polygonum nodosum* Pers. (*O-inutade*). *Formosa*:—Prov. Taihoku: Taihoku (April 15, 1932, Y. Hashioka).

On *Polygonum* sp. *Formosa*:—Prov. Taihoku: Taihoku (April 15, 1932, Y. Hashioka).

台湾および琉球列島所産黒穂菌類目録 (摘要)

平塚直秀・平塚保之

本報文は、主として国立科学博物館ならびに著者の1人(平塚直秀)所蔵の標本にもとづいて作製せる台湾および琉球列島所産黒穂菌類の目録である。本目録に登載した黒穂菌は、*Burrillia* 属1種、*Cintractia* 属4種、*Dermatosorus* 属1種、*Doassansia* 属1種、*Entyloma* 属6種、*Farysia* 属1種、*Melanopsichium* 属1種、*Sorosporium* 属4種、*Sphacelotheca* 属7種、*Tilletia* 属2種、*Tolyposporium* 属1種および *Ustilago* 属19種、計12属48種である。

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