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| Author(s)        | 平塚, 直秀                                                                            |
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## Materials for a Rust-flora of Manchoukuo, II

By

Naohide HIRATSUKA

(平塚直秀)

1. *Uredinopsis hirosakiensis* KAMEI et HIRATSUKA, f. in KAMEI in Transact. Sapporo Nat. Hist. Soc. XII, p. 164, 1932.

Hab. On *Thelypteris palustris* SCHOTT. var. *pubescens* FERNALD (*Hime-shida*). Prov. Botankô: Tônei (Tônei-ken) (Aug., 1940, M. IRIE, *m-no.* 375). New to Manchoukuo!

2. *Uredinopsis Kameiana* FAULL in Contrib. Arnold Arboretum, Harvard Univ. XI, p. 82 & pl. IV, figs. 20 (a-d), 1938.

Hab. On *Pteridium aquilinum*. KÜHN var. *japonicum* NAKAI (*Warabi*). Prov. Kantô: Kaizanton (Waryû-ken) (July 5, 1939, HIRATSUKA, f., *m-no.* 374). New to Manchoukuo!

3. *Thekopsora guttata* (SCHRÖT.) SYDOW, Monogr. Ured. III, p. 467, 1915.

Hab. On *Galium dahuricum* TURCZ. (*Ôba-no-yaemugura*). Prov. Peian: Korangawa-jyôriu (Tetsurei-ken) (July 31, 1940, HIRATSUKA, f., *m-no.* 351).

4. *Melampsora Magnusiana* G. WAGNER in Oesterr. Bot. Zeitschr. XLVI, p. 273, 1896.

Hab. On *Populus Davidiana* DODE (*Chôsen-yamanarashi*). Prov. Kitsurin: Domonrei (Kyûdai-ken) (July 22, 1940, HIRATSUKA, f., *m-no.* 437). Prov. Peian: Korangawa-jyôriu (Tetsurei-ken) (July 31, 1940, HIRATSUKA, f., *m-no.* 438). New to Manchoukuo!

5. *Coleosporium cimicifugatum* THÜMEN in Bull. Soc. Imp. Nat. Moscou, LIII, p. 222, 1878.

Hab. On *Cimicifuga dahurica* MAXIM. (*Fubuki-shôma*). Prov. Hôten: Tokuriji (Fuku-ken) (Oct. 6, 1929, H. TAKASUGI, *m-no.* 311).

6. *Coleosporium Clematidis* BARCLAY in Jour. Asiatic Soc. Bengal,

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Trans. Sapporo Nat. Hist. Soc., Vol. XVII, Pt. 2, 1942.

LIX, pt. 2, p. 89 & pl. VI, figs. 3 & 5, 1890.

Hab. On *Clematis hexapetala* PALL. (*Hosoba-shiro-kusabotan*). Prov. Kitsu-  
tsurin: Jyôgetsutan near Shinkyô (June 21, 1940, T. WADA, *m-no.* 376).

7. *Phragmidium Potentillae* (PERS.) KARSTEN, Myc. Fenn, IV, p. 49, 1878.

Syn. *Phragmidium Potentillae* subsp. *Phragmidium supinum* TRANZSCHEL, Consp. Ured. URSS, p. 231, 1939.

Hab. On *Potentilla discolor* BUNGE (*Tsuchiguri*). Prov. Hôten: Tokuriji (Sept. 16, 1931, H. TAKASUGI, *m-nos.* 14 & 417); Prov. Kantô: Kaizanton (Waryû-ken) (July 19, 1940, HIRATSUKA, f., *m-no.* 416).

On *Potentilla multifida* L. var. *angustifolia* LEHM. (*Tô-kawarasaiko*). Prov. Peian: Kokuzan (Kokuzan-ken) (Aug. 4, 1940, HIRATSUKA, f., *m-nos.* 309 & 310).

On *Potentilla paradoxa* NUTT. (*Potentilla supina* L. var. *paradoxa* WOLF) (*O-kijimushiro*). Prov. Kitsu-  
tsurin: Domon-rei (Kyûdai-ken) (July 22, 1940, HIRATSUKA, f., *m-no.* 425); Kôshurei (Kwaitoku-ken) (Aug. 28, 1938, ABE, *m-no.* 21). Prov. Hinkô: Harbin (July 29, 1940, HIRATSUKA, f., *m-no.* 430). Prov. Peian: Mizuho-mura (Suiryô-ken) (Aug. 15, 1938, M. IRIE, *m-no.* 23); Kokuzan (Kokuzan-ken) (Aug. 4, 1940, HIRATSUKA, f., *m-nos.* 418 & 420); Taian (Kokuzan-ken) (Aug. 5, 1940, HIRATSUKA, f., *m-no.* 427); Korangawajyôriu (Tetsurei-ken) (July 31, 1940, HIRATSUKA, f., *m-no.* 421). Prov. Kantô: Meigetsukô (Enkichi-ken) (July 21, 1940, HIRATSUKA, f., *m-no.* 422); Kaizanton (Waryû-ken) (July 18, 1940, HIRATSUKA, f., *m-nos.* 423 & 424). Prov. Botankô: Kairin (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., *m-no.* 428); Neian (Neian-ken) (Aug. 9, 1940, HIRATSUKA, f., *m-no.* 429); Botankô-shi (Aug. 10, 1940, HIRATSUKA, f., *m-no.* 426).

8. *Gymnosporangium Haraeum* SYDOW in Ann. Myc. X, p. 405, 1912.

Hab. On *Pirus serotina* REHD. (*Nashi*) (*cultivated*). Prov. Hôten: Yûgakujiyô (July 5, 1934, H. TAKASUGI, *m-no.* 11).

9. *Uromyces Fabae* (PERS.) DE BARY in Ann. Sci. Nat. 4. Sér. XX, p. 72, 1763.

Hab. On *Vicia Cracca* L. (*Kusa-fuji*). Prov. Botankô: Odôkashi (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., *m-no.* 403).

10. *Uromyces Haraeanus* SYDOW in Ann. Myc. X, p. 405, 1912.

Hab. On *Scirpus radicans* SCHKUHR (*Kenashi-aburagaya*). Prov. Botankô: Botankô-shi (Aug. 10, 1940, HIRATSUKA, f., m-no. 319). New to Manchoukuo!

11. *Uromyces Limonii* (DC.) LÉVEILLÉ in Dict. d. Hist. Nat. Art. Ured. p. 19, 1840.

Hab. On *Statice aurea* L. (*Kibana-hamasaji*). Prov. Kôanhoku: Ganjurumyô (Sept. 5, 1937, M. TATEWAKI, m-no. 388).

12. *Uromyces Setariae-italicae* YOSHINO in Bot. Mag. Tokyo, XX, p. 247, 1907.

Hab. On *Setaria viridis* BEAUV. (*Enokoro-gusa*). Prov. Hôten: Yûgakujyô (Gaihei-ken) (Sept. 19, 1929, H. TAKASUGI, m-no. 290).

13. *Puccinia Absinthii* (HEDW. f.) DE CANDOLLE, Fl. franç. VI, p. 56, 1815.

Hab. On *Artemisia sacrorum* LEDEB. subsp. *manshurica* KITAMURA (*Urajiro-hime-iwayomogi*). Kwantôshû: Mt. Oshôzan near Kinshû (July 14) 1940, HIRATSUKA, f., m-no. 365). Prov. Hôten: Tokuriji (Fuku-ken) (Oct. 4, 1929, Y. AKAISHI, m-no. 366).

14. *Puccinia calumnata* SYDOW in Ann. Myc. XI, p. 102, 1913.

Hab. On *Pleuropteropteris divaricatum* NAKAI (*Shiberiya-iwatade*). Prov. Hôten: Tokuriji (Fuku-ken) (Oct. 4, 1929, H. TAKASUGI, m-no. 354). New to Manchoukuo!

15. *Puccinia Cicutae* LASCH in KLOTZSCH, Herb. Viv. Myc. no. 787, 1845.

Hab. On *Cicuta virosa* L. (*Dokuzeri*). Prov. Peian: Seirô (Tetsurei-ken) (Aug. 1, 1940, HIRATSUKA, f., m-no. 308). New to Manchoukuo!

16. *Puccinia Festucae* PLOWRIGHT in Gard. Chron. (III), VIII, p. 42 & 139, 1890.

Hab. On *Festuca extremiorientalis* OHWI (*Oni-toboshigara*). Prov. Peian: Korangawa-jyôriu (Tetsurei-ken) (July 31, 1940, HIRATSUKA, f., m-no. 337). New to Manchoukuo!

17. *Puccinia glumarum* (SCHMIDT) ERIKSSON et HENNING in Zeitschr. f. Pflanzenkr. IV, p. 197, 1894.

Hab. On *Critesion jubatum* NEVSKI (*Mugikusa*). Prov. Botankô: Kairin (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., m-no. 341).

18. *Puccinia nitidula* TRANZSCHEL in TRANZSCHEL et SEREBRIAN., Myc. Ross. nos. 158 & 159, 1911.

Hab. On *Pleuropteropyrum divaricatum* NAKAI (*Shiberiya-iwatade*). Prov. Kôanhoku: Sanka-chihô (Sept. 7, 1937, M. TATEWAKI, *m-no.* 353). New to Manchoukuo!

19. *Puccinia Poae-sudeticae* (WEST.) JØRSTAD in Mag. Naturv. LXX, p. 325, 1932.

Hab. On *Poa pratensis* L. (*Nagaba-gusa*). Prov. Botankô: Odôkashi (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., *m-nos.* 338~340).

20. *Puccinia Polygoni-amphibii* PERSOON, Syn. Fung. p. 227, 1801.

Hab. On *Persicaria lapathifolia* GRAY (*Sanae-tade*, *Shiro-inutade*). Prov. Botankô: Kairin (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., *m-no.* 357). Prov. Peian: Kokuzan (Kokuzan-ken) (Aug. 4, 1940, HIRATSUKA, f., *m-nos.* 359, 362 & 363); Taian (Kokuzan-ken) (Aug. 5, 1940, HIRATSUKA, f., *m-no.* 358); Mizuho-mura (Suiryô-ken) (Aug. 20, 1938, M. IRIE, *m-no.* 361). Prov. Hinkô: Harbin (Aug. 7, 1938, M. IRIE, *m-no.* 360).

On *Persicaria Sieboldi* OHKI (*Aki-no-unagitsukami*). Prov. Kitsurin: Tonkwa (Tonkwa-ken) (July 9, 1930, H. TAKASUGI, *m-no.* 356). Prov. Peian: Mizuho-mura (Suiryô-ken) (Aug. 15, 1938, M. IRIE, *m-no.* 355).

21. *Puccinia punctata* LINK in Ges. Nat. Freunde Berlin Mag. VII, p. 39, 1814.

Hab. On *Galium dahuricum* TURCZ. (*Ôba-yotsuba-mugura*). Prov. Peian: Kokuzan (Kokuzan-ken) (Aug. 4, 1940, HIRATSUKA, f., *m-no.* 349); Korangawa-jyôriu (Tetsurei-ken) (July 31, 1940, HIRATSUKA, f., *m-no.* 350). Prov. Botankô: Kairin (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., *m-no.* 352).

22. *Puccinia punctiformis* DIETEL et HOLWAY in DIETEL in Erythea, II, p. 128, 1894.

Hab. On *Rumex* sp. Prov. Botankô: Odôkashi (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., *m-no.* 364). Prov. Kitsurin: Tonkwa (Tonkwa-ken) (July 9, 1930, H. TAKASUGI, *m-no.* 438). New to Manchoukuo!

23. *Puccinia pygmaea* ERIKSSON, Fung. Paras. Scand. no. 449, 1895.

Syn. *Puccinia Ishikawai* ITO in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 210 & pl. XI, fig. 5, 1909. (MIURA in Fl. Manchuria & E. Mongolia, III, p. 290, 1928).

Hab. On *Calamagrostis Epigejos* ROTH. (*Yama-awa*). Prov. Peian: Kokuzan (Kokuzan-ken) (Aug. 4, 1940, HIRATSUKA, f., m-no. 431).

24. *Puccinia rubigo-vera* (DC.) WINTER in Pilze Deutschl. I, p. 217, 1881.

Hab. On *Elymus sibiricus* L. (*Yezo-mugi*). Prov. Peian: Kokuzan (Kokuzan-ken) (Aug. 4, 1940, HIRATSUKA, f., m-no. 342).

25. *Puccinia rufipes* DIETEL in ENGL. Bot. Jahrb. XXXII, p. 48, 1902.

Hab. On *Imperata cylindrica* BEAUV. var. *Koenigii* DURAND et SCHINZ (*Chigaya*). Kwantô-shû: Mt. Oshôzan near Kinshû (July 14, 1940, HIRATSUKA, f., m-no. 344). New to Manchoukuo!

26. *Puccinia sessilis* SCHNEIDER in Abhandl. Schles. Ges. Vaterl. Kult. XLVIII, p. 19, 1869.

Hab. On *Phalaris arundinacea* L. (*Kusayoshi*). Prov. Botankô: Kairin (Neian-ken) (Aug. 8, 1940, HIRATSUKA, f., m-no. 345).

27. *Puccinia Stipae-sibiricae* ITO in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 228 & pl. XII, fig. 5, 1909.

Hab. On *Stipa extremiorientalis* HARA (*Hane-gaya*). Prov. Hôten: Tokuriji (Fuku-ken) (Oct. 7, 1929, H. TAKASUGI, m-no. 343).

28. *Puccinia Tranzscheltii* DIETEL in Hedwigia, XXX, p. 295 & pl. XXXV, fig. 5, 1891.

Hab. On *Cacalia hastata* L. (*Urage-yobusumasô*). Prov. Peian: Korangawa-jyôriu (Tetsurei-ken) (July 31, 1940, HIRATSUKA, f., m-nos. 433 & 434). New to Manchoukuo!