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Materials for a Rust-flora of Kiushu

By

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1. *Uredinopsis daisenensis* HIRATSUKA, f. in Mem. Tottori Agric. Coll. IV, p. 69, 1936.

On *Athyrium Vidalii* NAKAI (*Yama-inuwarabi*). Prov. Buzen: Mt. Hikosan (Oct. 9, 1939, HIRATSUKA, f.). New to Kiushu!

2. *Milesina chikugoensis* HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, sparsis vel laxe aggregatis, minutis, rotundatis, 0.1–0.27 mm diam., flavo-brunneis, epidermide diu tectis, tandem poro centrali apertis; peridio hemisphaerico, firmo, ex cellulis minutissimis, irregulariter polygonalibus, 6–15 μ diam.; uredosporis hyalinis, oblongis, oblongo-fusiformibus, fusiformibus vel clavatis, minutissime verruculosus, 27–62 $\times$ 10–18 μ ; episporio 1–1.5 μ crasso (usque 4 μ ad apicem). Teleutosporis ignotis.

Hab. On *Cyrtomium Fortunei* J. SM. (*Polystichum Fortunei* NAKAI) (*Yabusotetsu*). Prov. Chikugo: Miike-yama near Miike-machi (Jan. 14, 1936, E. TOBINAGA, type!).

Although the writer has not yet seen any example of the teleutospore-stage of this fungus, he treats it provisionally as a species of *Milesina* because of the characters of its uredostage. The present species is easily distinguished from *Milesina Faulliana* HIRATSUKA, f. et UEMURA on the same host plant by the shape and size of the uredospores as well as the essential characters of the uredosori.

3. *Milesina Diplazii* HIRATSUKA, f. in Bot. Mag. Tokyo, XLVIII, p. 44 & text-fig. 5, 1934.

On *Diplazium squamigerum* CHRIST. (*Kiyotaki-shida*). Prov. Buzen: Mt. Hikosan (Oct. 9 & 10, 1939, HIRATSUKA, f.). New to Kiushu!

4. *Milesina miikensis* HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, subepidermalibus, maculis discoloris brun-

neolis insidentibus, sparsis vel laxe aggregatis, rotundatis, minutis, 0.1-0.24 mm diam., epidermide tectis, atro-brunneis; peridiis ex cellulis irregulariter polygonalibus composito cinctis; cellulis peridiis minutis, 4-15 μ diam., parietibus tenuibus, levibus; uredosporis hyalinis, ellipsoideis, obovatis vel oblongis, fere levibus vel minutissime verrucosis, 24-38 $\times$ 12-20 μ ; episporio tenui, 1 μ vel minus crasso. Teleutosporis ignotis.

Hab. On *Phymatopsis hastata* KITAGAWA (*Polypodium hastatum* THUNB.) (*Mitsudô-uraboshi*). Prov. Chikugo: Miike-machi (Jan. 14, 1936, E. TOBINAGA, type!).

Although the writer has not yet found its teleutostage, he think it better to treat this fungus as a species of *Milesina* on account of the essential characters of the uredostage. This species is related to *Milesina Polypodii-superficialis* HIRATSUKA, f., from which it differs by the size of the spores and the characters of their episporium.

5. ***Melampsoridium Hiratsukanum*** ITO in HIRATSUKA, f. in Jour. Facul. Agric. Hokkaido Imp. Univ. XXI, p. 9, 1927.

On *Alnus tinctoria* SARG. var. *obtusiloba* CALL. (*Alnus hirsuta* TURCZ. var. *sibirica* C. K. SCHN.) (*Yama-hannoki*). Prov. Bungo: Mt. Kujiyû (Oct. 18, 1939, HIRATSUKA, f.). Prov. Ôsumi: Ônami-ike (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.); Shinyu Hot Spring (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.). New to Kiushu!

6. ***Melampsorella Caryophyllacearum*** SCHRÖTER in Hedwigia, XIII, p. 85, 1874.

On *Abies firma* SIEB. et ZUCC. (*Momi*). Prov. Ôsumi: Kirishima Hot Spring (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.).

7. ***Pucciniastrum Circaeae*** (THÜM.) SPEGAZZINI, Dec. Myc. Ital. no. 65, 1879.

On *Circaea mollis* SIEB. et ZUCC. (*Midzutamasô*). Prov. Chikuzen: Sasaguri-machi (Sept. 27, 1939, Y. MAKI); Mt. Kosho-zan (Oct. 8, 1939, Y. MAKI). New to Kiushu!

8. ***Pucciniastrum Corni*** DIETEL in ENGL. Bot. Jahrb. XXXIV, p. 587, 1905.

On *Cynoxylon japonica* NAKAI (*Cornus Kousa* BUERG.) (*Yamabôshi*). Prov. Ôsumi: Mt. Karakuni-dake (Oct. 24, 1939, HIRATSUKA, f.). New to Kiushu!

9. ***Pucciniastrum Coryli*** KOMAROV in JACZEWSKI, KOMAROV & TRANZSCHER, Fungi Rossiae exsicc. no. 275, 1899.

On *Corylus Sieboldiana* BLUME (*Corylus rostrata* var. *Sieboldiana* MAXIM.) (*Tsuno-hashibami*). Prov. Bungo: Mt. Kuju (Oct. 18, 1939, HIRATSUKA, f.). New to Kiushu!

10. *Pucciniastrum Kusanoi* DIETEL in ENGL. Bot. Jahrb. XXXII, p. 629, 1903.

On *Clethra barbinervis* SIEB. et ZUCC. (*Ryôbu*). Prov. Buzen: Mt. Hikosan (Oct. 9, 1939, HIRATSUKA, f.; Nov. 5, 1939, T. KATSUKI). Prov. Bungo: Mt. Katamukiyama (Oct. 21, 1939, HIRATSUKA, f.); Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.); Mt. Kyju (Oct. 18, 1939, HIRATSUKA, f.). Prov. Ôsumi: Ônami-ike (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.); Mt. Karakuni-dake (Kirishima Mts.) (Oct. 24, 1939, HIRATSUKA, f.). New to Kiushu!

11. *Pucciniastrum Miyabeaenum* HIRATSUKA in Bot. Mag. Tokyo, XII, p. 33, 1898.

On *Viburnum furcatum* BLUME (*Mushikari*). Prov. Buzen: Mt. Hikosan (Nov. 5, 1939, T. KATSUKI; Oct. 9 & 11, 1939, HIRATSUKA, f.). New to Kiushu!

12. *Thekopsora Asteridis* TRANZSCHEL in HIRATSUKA, f. in Mem. Tottori Agric. Coll. IV, p. 328, 1936.

On *Heteropappus hispidus* LESS. (*Sunaji-nogiku*). Prov. Bungo: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.). The present species is new to Kiushu and *Heteropappus hispidus* is a new host plant for this species.

13. *Thekopsora Myrtillina* KARSTEN, Myc. Fenn. IV, p. 59, 1879.

On *Lyonia Neziki* NAKAI et HARA (*Xolisma elliptica* NAKAI) (*Nejiki*). Prov. Bungo: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.); Mt. Kuju (Oct. 18, 1939, HIRATSUKA, f.); Kuju-kôgen (Oct. 17, 1939, HIRATSUKA, f.). Prov. Ôsumi: Kirishima Hot Spring (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.); Ônami-ike (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.). New to Kiushu!

14. *Melampsora Euphorbiae-dulcis* OTTH in Berner Mitteil. (1868), p. 70, 1868.

On *Euphorbia pekinensis* RUPR. var. *Onoei* MAK. (*Takatôdai*). Prov. Bungo: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.). New to Kiushu!

15. *Melampsora Kusanoi* DIETEL in ENGL. Bot. Jahrb. XXXVII, p. 104, 1905.

On *Hypericum Ascyron* L. (*Tomoeshô*). Prov. Bungo: Mt. Yubu-dake (Oct.

14. 1939, HIRATSUKA, f.). New to Kiushu!

16. *Phakopsora Meliosmae* KUSANO in Bot. Mag. Tokyo, XVIII, p. 148 & text-fig., 1904.

On *Meliosma tenuis* MAXIM. (*Miyama-hahaso*). Prov. Buzen: Mt. Hikosan (Oct. 9, 1939, HIRATSUKA, f.). *Meliosma tenuis* is a new host plant for the present species.

17. *Phakopsora Nishidana* ITO in ITO & HOMMA in Transact. Sapporo Nat. Hist. Soc. XV, p. 117, 1938.

On *Ficus erecta* THUNB. (*Inu-biwa*). Prov. Buzen: Yabakei-mura (Oct. 13, 1939, HIRATSUKA, f.). Prov. Hiuga: Miyazaki-shi (Oct. 22, 1939, HIRATSUKA, f.). Prov. Satsuma: Kagoshima-shi (Oct. 27, 1939, HIRATSUKA, f.).

18. *Phakopsora Pachyrhizi* SYDOW in Ann. Myc. XII, p. 108, 1914.

On *Pueraria Thunbergiana* BENTH. (*Kuzu*). Prov. Chikuzen: Nishidani-mura (Kiku-gun) (Nov. 21, 1937, T. KATSUKI). Prov. Bungo: Kuju-kôgen (Oct. 19, 1939, HIRATSUKA, f.). Prov. Higo: Ariake-mura (Nov. 30, 1935, E. TOBINAGA); Kenboku-mura (Dec. 15, 1935, E. TOBINAGA); Shimoda-mura (Amakusa) (Dec. 22, 1939, HIRATSUKA, f.). Prov. Satsuma: Mt. Kaimon-dake (Oct. 28, 1939, HIRATSUKA, f.).

19. *Chrysomyxa Rhododendri* DE BARY in Bot. Zeitg. XXXVII, p. 809 & pl. X, figs. 1-6, 1879.

On *Rhododendron kiusianum* MAK. (*Miyama-kirishima*). Prov. Hizen: Mt. Unzen-dake (July 24, 1937, Y. MAKI). Prov. Ôsumi: Shinyu Hot Spring (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.); Mt. Karakuni-dake (Kirishima Mts.) (Oct. 24, 1939, HIRATSUKA, f.); Ônami-ike (Kirishima Mts.) (Oct. 24, 1939, HIRATSUKA, f.). *Rhododendron kiusianum* is a new host plant for the present species.

20. *Coleosporium Microrhamni* DIETEL in Ann. Myc. IV, p. 308, 1906.

On *Rhamnella franguloides* WEBERB. (*Nekonochichi*). Prov. Satsuma: Mt. Kaimon-dake (Oct. 28, 1939, HIRATSUKA, f.). New to Kiushu!

21. *Coleosporium Phellodendri* KOMAROV in JACZEWSKI, KOMAROV & TRANZSCHEL, Fung. Ross. exs. no. 274, 1899.

On *Phellodendron Lavalleyi* DODE (*Kihada*). Prov. Bungo: Mt. Katamuki-yama (Oct. 21, 1939, HIRATSUKA, f.). New to Kiushu!

22. *Kuehneola Callicarpae* SYDOW in SYDOW & PETRAK in Ann. Myc. XXVI, p. 420, 1928.

On *Callicarpa mollis* SIEB. et ZUCC. (*Yabu-murasaki*). Prov. Hiuga: Miyazaki-shi (Oct. 22, 1939, HIRATSUKA, f.). New to Kiushu!

23. *Kuehneola Uredines* (LINK) ARTHUR in Résult. Sci. Congr. Internat. Bot. Vienne (1905), p. 342, 1906.

On *Rubus* sp. (*cultivated*). Prov. Hiuga: Miyazaki-shi (Oct. 22, 1939, HIRATSUKA, f.). New to Kiushu!

24. *Blastospora Itoana* TOGASHI et ONUMA in Bot. Mag. Tokyo, XLV, p. 6 & text-figs. 1 & 3, 1931.

On *Smilax Oldhami* MIQ. (*Tachi-shiode*). Prov. Bungo: Mt Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.). New to Kiushu!

25. *Blastospora Smilacis* DIETEL in Ann. Myc. VI, p. 223 & text-fig., 1908.

On *Smilax Sieboldi* MIQ. (*Yamagashû*). Prov. Bungo: Taketa-machi (Oct. 20, 1939, HIRATSUKA, f.). New to Kiushu!

26. *Triphragmium Ulmariae* (SCHUM.) LINK, Sp. Pl. II, p. 84, 1825.

On *Filipendula multijuga* MAXIM. (*Shimotsukesô*). Prov. Bungo: Mt. Kujiyû (Oct. 18, 1939, HIRATSUKA, f.). New to Kiushu!

27. *Pileolaria Toxicodendri* (BERK. et RAV.) ARTHUR in N. Amer. Fl. VII, p. 147, 1907.

On *Rhus ambigua* LAVALL. (*Tsuta-urushi*). Prov. Buzen: Mt. Hikosan (Oct. 9, 1939, HIRATSUKA, f.). Prov. Bungo: Mt. Katamuki-yama (Oct. 21, 1939, HIRATSUKA, f.); Kujiyû-kôgen (Oct. 17, 1939, HIRATSUKA, f.). Prov. Ôsumi: Shinyu Hot Spring (Kirishima Mts.) (Oct. 25, 1939, HIRATSUKA, f.). New to Kiushu!

28. *Hamasporea Rubi-Sieboldii* (KAWAGOE) DIETEL in Ann. Myc. XX, p. 293, 1922.

On *Rubus Sieboldi* BLUME (*Hôroku-ichigo*). Prov. Higo: Shimoda-mura (Amakusa) (Dec. 22, 1939, HIRATSUKA, f.).

29. *Uromyces Holwayi* LAGERHEIM in Hedwigia, XXVIII, p. 108, 1889.

On *Lilium pseudotigrinum* CARR. (*Ko-oniyuri*). Prov. Hizen: Karatsu-shi

(May 22, 1937, Y. MAKI). New to Kiushu!

30. *Uromyces Orobi* LÉVEILLÉ in Ann. Sci. Nat. 3. Sér. VIII, p. 371 & 376, 1874.

On *Vicia unijuga* A. BRAUN (*Nantenhagi*). Prov. Bungo: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.). New to Kiushu!

31. *Uromyces Wedeliae* HENNINGS in Hedwigia, XLIII, p. 150, 1904.

On *Wedelia prostrata* HEMSL. (*Hamaguruma*). Prov. Higo: Tomioka-machi (Amakusa) (Dec. 21, 1939, HIRATSUKA, f.). New to Kiushu!

32. *Puccinia angustata* PECK in Bull. Buffalo Soc. Nat. Sci. I, p. 67, 1873.

On *Scirpus Wichurii* BOECK. var. *concolor* OHWI (*Scirpus Cyperinus* var. *concolor* MAK.) (*Aburagaya*). Prov. Bungo: Hakusan-mura (Oct. 20, 1939, HIRATSUKA, f.). New to Kiushu!

33. *Puccinia Belamacandae* DIETEL in Ann. Myc. V, p. 71, 1907.

On *Belamacanda chinensis* LEMAN. (*Hiôgi*) (*cultivated*). Prov. Bungo: Taketa-machi (Oct. 20, 1939, HIRATSUKA, f.). New to Kiushu!

34. *Puccinia Bupleuri* (OPIZ) RUDOLPHI in Linnaea, IV, p. 514, 1892.

On *Bupleurum falcatum* L. (*Mishima-saiko*). Prov. Buzen: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.). New to Kiushu!

35. *Puccinia Buxi* DE CANDOLLE, Fl. franç. VI, p. 60, 1815; GROVE, Brit. Rust Fungi, p. 208 & fig. 153; SACCARDO, Syll. Fung. VII, p. 688; SYDOW, Monogr. Ured. I, p. 453.

On *Buxus japonica* MÜLL.-ARG. (*Tsuge*). Prov. Chikuzen: Mt. Kosho-zan (Jan. 5, 1940, M. NOMIYAMA). The present species is new to the mycological flora of Japan, and *Buxus japonica* is a new host plant for the present species.

36. *Puccinia Caricis-japonicae* DIETEL in Ann. Myc. IV, p. 305, 1906.

On *Carex Doniana* SPRENG. (*Shira-suge*). Prov. Chikugo: Miike-machi (Feb. 11, 1936, E. TOBINAGA); Miike-yama near Miike-machi (June 12, 1935, E. TOBINAGA). Prov. Buzen: Mt. Hikosan (Oct. 10, 1939, HIRATSUKA, f.); Mt. Kawara-dake (Oct. 30, 1936, E. TOBINAGA). New to Kiushu!

37. *Puccinia Caricis-macrocephalae* DIETEL in Ann. Myc. VIII, p. 306, 1910.

On *Carex Kobomugi* OHWI (*Kôbô-mugi*). Prov. Buzen: Nakatsu-shi (Oct. 13, 1939, HIRATSUKA, f.). New to Kiushu!

38. *Puccinia Caricis-molliculae* SYDOW in Ann. Myc. XI, p. 105, 1913.

On *Carex mollicula* BOOTT. (*Hime-shirasuge*). Prov. Buzen: Mt. Hikosan (Nov. 1, 1935, E. TOBINAGA). New to Kiushu!

39. *Puccinia Elaeagni* YOSHINAGA in DIETEL in Ann. Myc. IV, p. 304, 1906.

On *Elaeagnus pungens* THUNB. (*Nawashiro-gumi*). Prov. Buzen: Yabakei-mura (Oct. 13, 1939, HIRATSUKA, f.). New to Kiushu!

40. *Puccinia Glyceriae* ITO in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 200 & pl. XI, fig. 2, 1909.

On *Glyceria tonglensis* CLARKE var. *honshuana* L. KELSO (*Dojyôtsunagi*). Prov. Bungo: Makiguchi-mura (Oct. 20, 1939, HIRATSUKA, f.).

41. *Puccinia hyalina* DIETEL in ENGL. Bot. Jahrb. XXXVII, p. 99, 1905.

On *Carex siderosticta* HANCE. (*Taganesô*). Prov. Bungo: Mt. Katamuki-yama (Oct. 21, 1939, HIRATSUKA, f.). New to Kiushu!

42. *Puccinia Juncelli* DIETEL in Ann. Myc. VIII, p. 306, 1910.

On *Juncellus serotinus* CLARKE (*Cyperus serotinus* ROTTB.) (*Midzu-gayatsuri*). Prov. Chikuzen: Kotake-machi (Oct. 24, 1935, E. TOBINAGA). New to Kiushu!

43. *Puccinia Kyllingiae-brevifoliae* MIURA in ITO & HOMMA in Transact. Sapporo Nat. Hist. Soc. XV, p. 128, 1938.

On *Kyllingia brevifolia* ROTTB. (*Hime-kugu*). Prov. Chikuzen: Miyata-machi (Oct. 27, 1936, E. TOBINAGA); Fukuoka-shi (Aug. 4, 1936, E. TOBINAGA); Shiganoshima-mura (Oct. 31, 1937, Y. MAKI). Prov. Chikugo: Ginsui-mura (Sept. 13 & Nov. 27, 1935, E. TOBINAGA); Miike-machi (July 5 & Aug. 1, 1935, E. TOBINAGA); Iwate-mura (Feb. 9, 1936, E. TOBINAGA). Prov. Higo: Fumoto-mura (Oct. 20, 1936, E. TOBINAGA). Prov. Hiuga: Miyazaki-shi (Oct. 22, 1939, HIRATSUKA, f.). Prov. Satsuma: Kagoshima-shi (Nov. 12, 1930, June 2, 1931 & July 22, 1935, K. IDE). New to Kiushu!

44. *Puccinia mandshurica* MIURA, Flora of Manchuria & East Mongolia, III, p. 308 & pl. IV, fig. G, 1928.

On *Carex siderosticta* HANCE. (*Taganesô*). Prov. Bungo: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.). New to Kiushu!

45. *Puccinia Miyakei* SYDOW in Ann. Myc. VII, p. 168, 1909.

Syn. *Puccinia Caricis-siderostictae* (non DIETEL) (HIRATSUKA, f. in Jour. Jap.

Bot. XIV, p. 35, 1938).

On *Carex siderosticta* HANCE. (*Taganesô*). Prov. Bungo: Mt. Yubu-dake (Oct. 15, 1939, HIRATSUKA, f.). Prov. Buzen: Mt. Hikosan (Nov. 1, 1936, E. TOBINAGA). New to Kiushu!

46. *Puccinia moriokaensis* ITO in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 224 & pl. XII, fig. 1, 1909.

On *Phragmites prostratus* MAKINO (*Tsuru-yoshi*). Prov. Chikuzen: Miyata-machi (Oct. 27, 1936, E. TOBINAGA). New to Kiushu!

47. *Puccinia Nolitangeris* CORDA, Icon. Fung. IV, p. 16 & pl. V, fig. 57, 1840.

On *Impatiens Textori* MIQ. (*Tsurifunesô*). Prov. Buzen: Mt. Hikosan (Oct. 31, 1936, E. TOBINAGA; Oct. 9 & 10, 1939, HIRATSUKA, f.). Prov. Bungo: Hakusan-mura (Oct. 20, 1939, HIRATSUKA, f.). Prov. Chikuzen: Mt. Koshozan (Oct. 8, 1939, Y. MAKI). New to Kiushu!

48. *Puccinia Polliniae-quadrinervis* DIETEL in Ann. Myc. VII, p. 355, 1909.

On *Eulalia quadrinervis* O. KUNTZE (*Pollinia quadrinervis* HACK.) (*Unnukemodoki*). Prov. Higo: Shikaki-mura (Amakusa) (Dec. 20, 1939, HIRATSUKA, f.). New to Kiushu!

49. *Puccinia rangiferina* ITO in Jour. Coll. Agric. Tohoku Imp. Univ. III, p. 194 & pl. X, fig. 12, 1909.

On *Calamagrostis arundinacea* ROTH. var. *sciurioides* HACK. (*Saitô-gaya*). Prov. Chikuzen: Sasaguri-machi (Nov. 22, 1936, Y. MAKI). New to Kiushu!

50. *Puccinia Saniculae* GREVILLE, Fl. Edinb. p. 431, 1824.

On *Sanicula chinensis* BUNGE (*Sanicula europaea* AUCT.) (*Uma-no-mitsuba*). Prov. Buzen: Mt. Hikosan (Oct. 9, 1939, HIRATSUKA, f.). Prov. Hizen: Mt. Unzen-dake (July 27, 1937, Y. MAKI). New to Kiushu!

51. *Puccinia Saxifragae* SCHLECHTENDAL, Fl. Berol. II, p. 135, 1824.

On *Saxifraga cortusaefolia* SIEB. et ZUCC. var. *typica* MAK. (*Daimonji-sô*). Prov. Buzen: Mt. Hikosan (Oct. 9, 1939, HIRATSUKA, f.). New to Kiushu!

52. *Puccinia Sonchi* ROBERGE in DESMAZIÈRES in Ann. Sci. Nat. 3. Sér. XI, p. 274, 1849.

On *Sonchus brachyotus* DC. (*Sonchus arvensis* var. *uliginosus* TRAUTV. et MEY.) (*Hachijyô-na*). Prov. Chikugo: Ômuta-shi (Sept. 24 & Nov. 17, 1935, E. TOBINAGA). New to Kiushu!