Notae Uredinologiae Asiae Orientalis. II.¹⁾

auctore

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1) **Uredinopsis komagatakensis** HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, subepidermalibus, sparsis vel laxe aggregatis, maculis decoloratis brunneolis insidentibus, minutis, rotundatis, 0.08–0.2 mm diam.; peridiis hemisphaericis, delicatioribus; ex cellulis minutis, irregulariter polygonalibus, 7–12 μ diam., parietibus levibus, tenuibus; uredosporis subglobosis, ellipsoideis, obovatis vel oblongis, hyalinis serie una longitudinali verrucarum minutarum dense positarum obsitis, ceterum minutissime verrucosis, 17–32 $\times$ 12–18 μ ; episporio tenui, 1 μ vel minus crasso. Teleutosporis plerumque hypophyllis, subepidermicis, solitariis vel laxe aggregatis, subglobosis, ovatis vel ellipsoideis, levibus, 2–4-cellulis, 17–24 μ altis, 16–29 μ latis; episporio tenui, ca. 1 μ crasso.

Hab. On *Athyrium yokoscense* H. CHRIST (*Hebinonegoza*). *Honshû*:—Prov. Shinano: Mt. Komagatake (Kiso) (Aug. 22, 1932, HIRATSUKA, f., type!).

The present species closely resembles *Uredinopsis Athyrii* KAMEI, from which it differs in the possession of smaller uredospores with uniformly thin episore.

2) **Milesina morrisonensis** HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, inconspicuis, in areis posterius brunneolis insidentibus, sparsis, minutis, rotundatis, 0.08–0.2 mm diam.; peridiis subepidermicis, hemisphaericis vel applanato-hemisphaericis, delicatioribus; ex cellulis minutis, irregulariter polygonalibus; uredosporis ellipsoideis, obovatis, oblongis vel oblongo-clavatis, hyalinis, aculeatis, 30–48 $\times$ 17–26 μ ; episporio ca. 1 μ crasso. Teleutosporis adhuc ignotis.

Hab. On *Dryopteris paleacea* C. CHRIST. (*Makihire-shida*). *Formosa*:—Prov. Tainan: Niitaka-Sekizan (Niitaka Mts.) (Jan. 14, 1941, HIRATSUKA, f. & Y. HASHIOKA, type!). The present species is closely related to *Milesina Kriegeriana* MAGNUS, from which it distinctly differs by the much larger uredospores.

1) The cost of this research has been defrayed from the Scientific Research Expenditure of the Department of Education.

3) **Milesina niitakensis** HIRATSUKA, f. *nov. spec.*

Soris uredosporiferis hypophyllis, in partibus matricis restrictis decoloratis brunneolis insidentibus, sparsis vel aggregatis, minutis, rotundatis, 0.1–0.3 mm diam., epidermide tectis, tandem poro centrali apertis; peridiis hemisphaericis, delicatoribus, apice dehiscens, subhyalinis vel hyalinis; ex cellulis minutis, irregulariter polygonalibus, 5–12 μ dimensibus, parietibus levibus, tenuis; uredosporis fusiformibus, apice acutis, hyalinis, levibus, 35–50 $\times$ 10–13 μ ; episporio 1 μ vel minus crasso. Teleutosporis ignotis.

Hab. On *Peranema cyatheoides* DON. (*Hego-modoki*). *Formosa*:—Prov. Tainan: Niitaka-Sekizan (Niitaka Mts.) (Jan. 14, 1941, HIRATSUKA, f. & Y. HASHIOKA, *type!*).

Although the writer has not yet seen any example of the teleutostage of this fungus, he treats it provisionally as a species of this genus because of the characters of its uredostage.

4) **Milesina Tobinagai** HIRATSUKA, f. in Jour. Jap. Bot. XII, p. 271, 1936. (*char. emend.*)

Soris teleutosporiferis plerumque hypophyllis; teleutosporis in cellulis epidermidis evolutis, 2- -pluri-cellularibus (rarius non-septatis), longitudinaliter septatis, cellulis irregulariter polygonalibus, 10–24 μ diam., parietibus tenuibus, levibus, hyalinis.

Hab. On *Woodwardia japonica* Sw. (*Ô-kaguma*). *Shikoku*:—Prov. Tosa: Okuyamaji (Hata-gun) (March 30, 1942, Y. MORIMOTO).

The first description of this species was made by the writer in 1936 based upon a specimen of the uredostage which was collected by Mr. E. TOBINAGA from the province of Chikugo, Kiushû. Recently, the writer has received from Mr. Y. MORIMOTO a specimen of the present fungus collected by him in the province of Tosa, Shikoku. This collection bears both uredo- and teleutospores.

5) **Pucciniastrum Ishiuchii** HIRATSUKA, f. *nov. spec.*

Soris uredosporiferis amphigenis, plerumque sparsis vel laxè aggregatis, minutis, rotundatis, 0.1–0.5 mm diam., diu epidermide tectis, tandem poro centrali apertis, subpulverulentis, pallide flavo-brunneis, peridiis hemisphaericis, subhyalinis, cellulis peridiis minutis, irregulariter polygonalibus, 5–13 μ diam., parietibus levibus, hyalinis; uredosporis subglobosis, obovatis vel ellipsoideis, echinulatis, 20–30 $\times$ 15–20 μ ; episporio subhyalino, 2–3 μ crasso. Teleutosporis ignotis.

Hab. On *Deutzia scabra* THUNB. var. *crenata* MAK. (*Utsugi*). *Honshû*:—Prov. Hôki: Mt. Daisen (Oct. 17, 1931, O. ISHUCHI, *type!*).

Although only the uredosori of this fungus have been found, it is

provisionally treated as a species of *Pucciniastrum* because of the essential characters of its uredostage:

6) **Melampsora kiusiana** HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, minutis, rotundatis, 0.2–0.5 mm diam., subpulverulentis, aurantiacis; uredosporis globosis, subglobosis vel ellipsoideis, verruculoso-echinulatis, $11-17 \times 10-14\mu$, episporio ca. 2μ crasso, intus aurantiacis; paraphysibus capitatis, superne $18-26\mu$ latis, $30-46\mu$ longis, membrana $4-6\mu$ crassa. Soris teleutosporiferis amphigenis, plerumque epiphyllis, subcuticularibus, sparsis vel aggregatis, obscure rufo-brunneis; teleutosporis cylindraceis vel irregulariter prismaticis, apice leniter incrassatis, pallide flavobrunneis, levibus, $40-75 \times 5-12\mu$, episporio tenui.

Hab. On *Salix subopposita* MIQ. (*Hime-yanagi*). *Kiushû*:—Prov. Chikuzen: Yahata-shi (Oct., 1938, T. KATSUKI); Mt. Hôman (Aug. 27, 1931, O. ISHUCHI). Prov. Bungo: Mt. Yubu-dake (Oct. 14, 1939, HIRATSUKA, f.); Mt. Kujiyû (Oct. 18, 1939, HIRATSUKA, f., type!).

The present species is closely related to *Melampsora epiphylla* DIET. on *Salix sachalinensis*, from which it distinctly differs by much longer teleutospores, more or less thicker episporium of the uredospores and others.

7) **Zaghouania Phillyreae** PATOUILLARD in Bull. Soc. Myr. France, XVII, p. 187 & pl. VII, figs. 1–13, 1901.

Hab. On *Osmanthus fragrans* LOUR. (*Mokusei*). *China*:—Hangchow (May 30, 1933, V. L. CHU). New to China!

8) **Cronartium flaccidum** (ALB. et SCHW.) WINTER in Pilze Deutschl. I, p. 236, 1881.

Hab. On *Pinus densiflora* SIEB. et ZUCC. (*Aka-matsu*) (*cultivated*). *Korea*:—Prov. Kanhoku: Kyôjyô-men (Kyôjyô-gun) (June 13, 1942, M. SAKATA).

9) **Uromyces Genistae-tinctoriae** (PERS.) WINTER in Pilze Deutschl. I, p. 149, 1881.

Hab. On *Caragana rosea* TURCZ. (*Ko-muresuzume*). *Manchoukuo*:—Prov. Kinshû: Jyôsaidai (Kin-ken) (Oct. 1, 1942, HIRATSUKA, f.).

10) **Uromyces Astragali** (OPIZ) SACCARDO in Myc. Ven. Specim. p. 208, 1873.

Hab. On *Astragalus dahuricus* DE CANDOLLE (*Murasaki-ôgi*). *Manchoukuo*:—Prov. Kinshû: Kôjyô (Kôjyô-ken) (Oct. 2, 1942, HIRATSUKA, f.).

11) **Uromyces Glycyrrhizae** (RABENH.) MAGNUS in Ber. Deutschl.

Bot. Ges. VIII, p. 383 & pl. XX, figs. I, II & III, 1890.

Hab. On *Glycyrrhiza uralensis* FISCH. (*Uraru-kanzô*). *N. China*:—Prov. Shansi: Daidô (June 8, 1942, M. NAKAZAWA).

12) **Puccinia Dianthi-japonici** HENNINGS in ENGL. Bot. Jahrb. XXXIV, p. 595, 1905.

Hab. On *Dianthus japonicus* THUNB. (*Hama-nadeshiko*, *Fuji-nadeshiko*). *Honshû*:—Prov. Awaji: Nada-mura (Mihara-gun) (Aug. 6, 1939, T. YOSHINAGA).

13) **Puccinia japonica** DIETEL in ENGL. Bot. Jahrb. XXVIII, p. 283, 1900.

Hab. On *Anemone baicalensis* TURCZ. var. *glabrata* MAXIM. (*Anemone glabrata* JUZ.). *Maritime Province of Russia*:—Okeanskaja (July 7, 1929, W. TRANZSCHEL).

On *Anemone flaccida* FR. SCHM. (*Nirinsô*). *Shikoku*:—Prov. Awa: Orono-mura (May 1, 1942, T. INOBE). New to Shikoku!

14) **Puccinia Lapsanae** (COOKE) FÜCKEL, Symb. Myc. p. 53, 1869.

Hab. On *Lapsana* sp. *S. China*:—Prov. Kwantung: Maika-son (Daidôkyo) (Kinshû-ken) (May 3, 1940, Y. HASHIOKA). New to China!

15) **Puccinia Phellopteri** SYDOW, Monogr. Ured. I, p. 406, 1903.

Hab. On *Glechhia littoralis* FR. SCHM. (*Phellopterus littoralis* FR. SCHM.) (*Hamabôfû*). *China*:—Prov. Hoped: Sankaikwan (July 21, 1942, M. NAKAZAWA).

16) **Puccinia pachycephala** DIETEL in Ann. Myc. IV, p. 305, 1906.

Syn. *Pussinia nasuensis* HIRATSUKA, f. in Jour. Jap. Bot. XV, p. 624 & fig. 2, 1939 (*syn. nov.*).

Hab. On *Veratrum Maximowiczii* BAK. (Not "*Calanthe reflexa* MAXIM.") (*Aoyagi-sô*). *Honshû*:—Prov. Shimotsuke: Nasu-mura (June 8, 1939, K. IDE, *type of Pussinia nasuensis* HIRATSUKA, f.).

17) **Puccinia Thwaitesii** BERKELEY in Journ. Linn. Soc. Bot. XIV, p. 91, 1875.

Hab. On *Justicia Gendarussa* BURM. f. (*Kidachi-kitsunenomago*). *Tonkin*:—Hanoi (May 23, 1942, M. FUJIMURA).

18) **Ravenelia Hobsoni** COOKE in Journ. Roy. Micr. Soc. III, p. 386 & pl. XI, fig. 4, 1880.

Hab. On *Pongamia glabra* VENT. (*Kuroyona*). *S. China*:—Hainan Isl.: Chûgen (Sept. 14, 1942, Y. HASHIOKA). New to China!

- 19) **Teloconia Kamtschatkae** (ANDERS.) HIRATSUKA, f. *nom. nov.*
 Syn. *Puccinia Rosae* BARCLAY in Jour. Asiatic Soc. Bengal, LVIII, pt.
 II, p. 233 & pl. XII, figs. 6-8, 1889 (Not *Puccinia Rosae* SCHUM., 1803).
Puccinia Kamtschatkae ANDERSON in Jour. Myc. VI, p. 125, 1891.
Gymnoconia Rosae LIRO, Ured. Fenn. p. 413, 1908.
Phragmidium Rosae TRANZSCHEL in Publ. RIABOUCHINSKY Exped., Bot.
 II, p. 564, 1914.
Teloconia Rosae SYDOW in Ann. Myc. XIX, p. 168, 1921.
Phragmidium Kamtschatkae ARTHUR et CUMMINS in Mycologia, XXV,
 p. 401, 1933; HIRATSUKA, f. in Jap. Jour. Bot. VII, p. 288, 1935 (*syn. nov.*).
Trolliomyces Rosae ULBRICH in Notizbl. Bot. Gart. u. Mus., Berlin-
 Dahlem, XIV, p. 142, 1938 (*syn. nov.*).
 Hab. On *Rosa Marretii* LÉV. (Karahuto-bara, Yamahamansu).
 Korea:—Prov. Kanhoku: Gosonpo, Kyôjyô-mên (Kyôjyô-gun) (June 7,
 1942, M. SAKATA). New to Korea!

東亞所産銹菌類考 (II)

平 塚 直 秀

- 1) *Uredinopsis komagatakensis* HIRATSUKA, f. (新種)〜本種ハへびのねござ
 ヲ寄主トスルモノデ、基本標品ハ筆者ガ信濃國駒ヶ岳(木曾)山中ニ於テ發見採集セ
 ル種類デアル。同種ハ *Uredinopsis Athyrii* KAMEI ニ類似セル點アレドモ夏孢子ノ
 ヨリ小形ナル點其他ニヨリ明カニ區別出來ル。種名ハ採集地名ヲ採ツタ。
- 2) *Milesina morrisonensis* HIRATSUKA, f. (新種)〜まきひれしだヲ寄主トスル
 菌デ、筆者及ビ橋岡良夫君ガ臺灣新高山彙石山ニ於テ發見シタモノデアル。*Milesina*
Kriegeriana MAGN. ニ類似セルモ夏孢子ノヨリ大形ナルニヨリ明カニ區別シ得ル。
 種名ハ採集地名ヲ採用シタノデアル。
- 3) *Milesina niitakensis* HIRATSUKA, f. (新種)〜本種ハへごもどきニ寄生スル
 モノデ、前種同様筆者及ビ橋岡良夫君ガ臺灣新高山彙石山ニ於テ發見採集シタノデ
 アル。種名ハ採集地名ヲ採ツタ。
- 4) *Milesina Tobinagai* HIRATSUKA, f.〜おほかぐまヲ寄主トスル本種ハ筆者ガ
 ソノ夏孢子時代ノミノ標品ニヨツテ新種ト認定記載シタモノデ其後モ同孢子世代ノ
 ミシカ發見出來ナカツタガ、今回森本泰二君ハ土佐國幡多郡奥山路ニ於テ同種ノ冬
 孢子世代ヲ初メテ採集サレタ。
- 5) *Pucciniastrum Ishiuchii* HIRATSUKA, f. (新種)〜石内乙兒君ガ伯耆大山山
 中ニ於テ發見サレタうつぎヲ寄主トスルモノデアル。ソノ冬孢子世代ハ未詳デア
 ルガ、夏孢子時代ノ性質ニ基イテ假ニ *Pucciniastrum* 屬トシテ取扱フ事ニシタ。種名

ハ採集者名ヲ採ツタノデアル。

6) *Melampsora kiusiana* HIRATSUKA, f. (新種)〜ひめやなぎヲ寄主トスルモノデ、九州豊後國久住山ニ於ケル採品ヲ基本標品トシテ新種トシテ命名記載シタ。同種ハ久住山ノ外、北九州各地ニ廣ク産スルモノノ如クデアル。

7) *Zaghouania Phillyreae* PAT. (もくせいニ寄生), 14) *Puccinia Lapsanae* (COOKE) FÜCKEL (やぶたびらコ屬ノ1種ニ寄生), & 18) *Ravenelia Hobsoni* COOKE (くろよなニ寄生)〜支那大陸ノ銹菌**フロラ**ニ新ニ加ヘ得タル種類デアル。

16) *Puccinia pachycephala* DIETEL〜*Puccinea nasuensis* ノ寄主ハなつえびねデハナクあをやぎさうデアリ、同菌ハ全ク *Puccinia pachycephala* DIET. デアル事ガ判明シタノデ、前種ヲ後者ノ異名トシタ。

19) *Teloconia Kamtschatkae* (ANDERS.) HIRATS. f.〜筆者ハ從來本菌ヲ *Phragmidium* 屬ニ編入セシメテ居ツタガ、冬孢子柄ノ性質其他ノ點ニ於テ *Phragmidium* 屬トハ異ナリ別屬トシテ取扱フヲ妥當ト認メ、*Teloconia* 屬ヲ採用、新ニ *Teloconia Kamtschatkae* (ANDERS.) HIRATSUKA, f. ナル組合セヲ作ツタ。同種ハ今回朝鮮銹菌**フロラ**ニ加ヘ得タル種類デアル。

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