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NOTAE MYCOLOGICAE ASIAE ORIENTALIS II*

AUCTORE

SEIYA ITO

(伊藤誠哉)

56. *Ustilago Kenjiana* S. ITO, sp. nov.

Soris ovariis frumetorum nonnullorum in spica occupantibus, subglobosis vel oblongis, 3-6 mm, membrana pallido-brunnea tectis, atro-brunneis, pulverulentis; sporis globosis vel ellipsoideis, 4.0-7.6 μ , usitate 5 μ ; episporio brunneo, echinulato minuto in maturo.

Hab. in ovariis *Andropogonis Sorghi* BROT. Koshurei, Manchuria (KENJI MIYABE, 10 Sept. 1916—*typus*).

Distrib. Manchuria.

This species is closely related to *U. bulgarica*, but it differs in the smaller size of spores as well as in the powdery nature of sori. Also it is distinguished from *Sphacerotheca Sorghi* by the smaller spores and absence of columella. Distinguished from *Sph. sorgicola* by its echinulate membrane of spores in maturity.

This is named in memory of the late Mr. KENJI MIYABE, Phytopathologist of Agricultural Experiment Station, S. Manchuria Railway Co.

57. *Ustilago Tanakae* S. ITO, sp. nov.

Sori in ovariis evolutis, compactis, atris, diu tectis, inter glumas vix perspicuis; sporis globoso-angulatis, rarius globosis vel ellipsoideis, 8-15 μ diam., atro-brunneis, verruculosus; cellulis sterilibus globosis hyalinis vel flavis intermixtis.

Hab. in ovariis *Setariae italicae* BEAUV. var. *germanicae* TRIN. Maruyama, prope Sapporo, Prov. Ishikari (I. TANAKA, 24 Sept. 1927—*typus*); Shiroishi, Prov. Ishikari (N. HIRATSUKA, 30 Sept. 1894); Nopporo, Prov. Ishikari (Y. IMAI, 5 Oct. 1930).

Distrib. Hokkaido.

The present species is markedly different from *Ustilago Panici-glauci* in the macroscopic diagnosis. Under the microscope, it is also distinguished from

* Cfr. Trans. Sapporo Nat. Hist. Soc. XIV, p. 11.

[Trans. Sapporo Nat. Hist. Soc., Vol. XIV, Pt. 2, 1935]

the latter by the irregular and angular shape of spores which are provided with thicker and darker membrane.

58. *Ustilago Arundinellae-hirtae* S. ITO, sp. nov.

Soris in inflorescentiis vel in apice culmorum evolutis, eosque destruentibus, primo membrana tenui plumbea tectis, mox nudis, pulverulentis, atro-brunneis; sporis globosis, 4–8 μ diam., flavo-brunneis, levibus.

Hab. in inflorescentiis caulibusque, *Arundinellae hirtae* TAKEDA var. *ciliatae* KOIDZ. Kebuyama, Prov. Rikuchu (Y. TAKAHASHI, 12 Junio 1897—*typus*); Shikunoppe, Prov. Oshima (Y. TOKUBUCHI, Aug. 1888); Muroran, Prov. Iburi (S. HASHIMOTO, 23 Junio 1890); Monte Sorioi, Prov. Shiribeshi (S. HASHIMOTO, 26 Junio 1921).

Distrib. Hokkaido, Honshu.

59. *Ustilago Ischaemi-anthephoroides* S. ITO, sp. nov.

Soris in apice culmorum vel in inflorescentiis evolutis, primo in vagina inclusis, pulverulentis, atro-brunneis; sporis globosis vel ellipsoideis, 4.5–6.5 μ diam., brunneis, levibus.

Hab. in spicis *Ischaemi anthephoroides* MIQ. Uchino, Prov. Echigo (S. ITO, 13 Aug. 1915—*typus*); Seto-Kanayama, Prov. Kii (T. YOSHINAGA, 17 Julio 1933).

Distrib. Honshu.

60. *Ustilago Okudairae* MIYABE, in sched.

Soris in inflorescentiis evolutis, primo in vagina inclusis, pulverulentis, atro-brunneis; columella simplici vel interdum ramosa percursa; sporis globosis vel ellipsoideis, 9–13 μ diam., usque ad 15 μ longis; episporio atro-brunneo, reticulato, alveolis 3–5 μ latis, ca. 1.5 μ altis; cellulis sterilibus globosis hyalinis, catenulatis intermixtis.

Hab. in inflorescentiis *Coicis agrestis* LOUR. Okada, Prov. Iyo (K. OKUDAIRA, Sept. 1901—*typus*); Yatsushiro, Prov. Higo (T. KAWAKAMI, Oct. 1891); Kumamoto, Prov. Higo (K. YOSHINO, Aug. 1905); Izumi, Prov. Higo (S. OKUYAMA, 4 Oct. 1905; K. NAKANO, 12 Oct. 1906; F. KAMEZAWA, 5 Oct. 1911); Ooe, Prov. Higo (T. TADA, 7 Oct. 1906); Hainuzuka, Prov. Chikugo (T. NISHIDA, 30 Sept. 1909).

Distrib. Shikoku, Kyushu.

61. *Ustilago foliorum* S. ITO, sp. nov.

Soris hypophyllis; maculis orbicularibus 1–6 mm diam., flavidis vel brun-

neolis insidentibus, rotundatis, 1–3 mm diam., sparsis, primo epidermide tectis, mox nudis, pulverulentis, cinnamomeis; sporis globosis vel subglobosis, saepe angulatis, $9.6-12.8 \times 8.4-10.8$; episporio tenui, reticulato, alveolis ca. 2μ latis, 1μ altis.

Hab. in foliis *Polygoni morrisonensis* (HAY.) NAKAI, Monte Nankotaizan, Taihoku (Y. HASHIOKA, 29 Julio 1934—*typus*).

Distrib. Formosa.

The species is characterized by the formation of sori on leaves only, differing from the member of *Ustilago utriculosa* group. From the folicolous species, *U. Bistortarum* and *U. marginalis*, it is easily distinguished by the smaller spores and reticulate membrane.

62. *Ustilago Onumae* (SHIRAI) S. ITO, comb. nov.

Anthracoidea Onumae SHIRAI, nom. nud. (SHIRAI, List, II, p. 45, 1917; III, p. 20, 1927).

Soris gemmecolis, tumores efficientibus; tumoribus magnis, ellipsoideis, globosis vel irregularibus, fissuratis vel undulatis, 2–4 cm latis, cinnamomeis vel atro-brunneis, dein erumpentibus, pulverulentis, atro-brunneis; sporis ellipsoideis, $7-19 \times 5-13$, primo hyalinis, dein flavo-viridis, fere levibus; episporio $2-3.2 \mu$ crasso; sporidiolis fusoides vel cylindrico-ellipsoideis, $8-28.7 \times 1.6-3.2$, hyalinis.

Hab. in gemma *Cinnamomi pedunculati* NEES.

Distrib. Honshu, Kyushu.

63. *Ustilago Machili* (HINO et NAGAOKA) S. ITO, comb. nov.

Ustilago sp. HARA, Jumoku Byogai Hen, p. 264, 1927.

Anthracoidea Onumae SHIRAI var. nov.? SHIRAI, List, III, p. 20, 1927.

Cintractia Machili HINO et NAGAOKA, Bull. Miyazaki Col. Agr. et For. no. 3, p. 55, fig. 1, pl. I, fig. 3–4, II, fig. 1–5, 1931.

Hab. in gemmis *Machili longifoliae* BLUME et *M. Thunbergii* S. et Z. var. *glaucentis* BLUME.

Distrib. Kyushu.

64. *Ustilago Aneilemae* S. ITO, sp. nov.

Soris in antheris ovariisque evolutis, primo in bracteis inclusis, parum manifestis, dein nudis, pulverulentis, pulchre flavo-brunneis; sporis globosis vel subglobosis, $7.2-9.6 \mu$ diam.; episporio flavo-brunneo, levi; promycelio cylindraceo, 1–3 cellulis; sporidiolis lateralibus vel terminalibus, globosis vel ellipsoideis, $7.2-9.6 \mu$.

Hab. in antheris ovariisque *Aneilemae Keisak* HASSK. Isooka, Prov. Kozuke (T. WATANABE et T. YAMADA, 11 Sept. 1932—*typus*).

Distrib. Honshu.

The spore-mass of this interesting fungus is quite different from that of many other smuts by the fine yellowish brown color. According to the mode of sporegermination, it seems very likely to be a species of *Ustilago*.

65. *Sphacelotheca Polygoni-filiformis* S. ITO, sp. nov.

Soris in ovariis evolutis, primo membrana tenui alba tectis, mox nudis, pulverulentis, purpureo-atris; columella simplici, usque ad 0.5 cm longa; sporis globosis vel ellipsoideis, primo catenulatis, inter sporas fragmentas myceliis praesentibus, 9-11 μ diam., rarius 13 $\times$ 8 μ ; episporio purpureo-brunneo, verruculoso.

Hab. in ovariis *Tovarae (Polygoni) filiformis* NAKAI, Marukoma, Prov. Iburi (S. ITO, 18 Sept. 1931—*typus*); Monte Ichibusa, Prov. Higo (T. KAWAKAMI, Nov. 1903).

Distrib. Hokkaido, Kyushu.

The spores of this species are smaller than those of *Sphacelotheca Hydro-piperis* and *Sph. granosa*.

66. *Sphacelotheca Polygoni-senticosi* (P. HENN.) MIYABE et TAKAHASHI, in sched.

Ustilago Polygoni-senticosi P. HENN. in litt. (SHIRAI, List, I, p. 113, 1905; II, p. 721, 1917; III, p. 420, 1927—YOSHINAGA, Bot. Mag. Tokyo, XV, p. 98, 1901).

Soris in ovariis evolutis, primo membrana tenui alba tectis, mox nudis, pulverulentis, purpureo-atris; columella simplici, usque ad 0.8 cm longa; sporis globosis, ellipsoideis vel irregularibus, inter sporas fragmentas myceliis praesentibus, 10-14 μ diam.; episporio purpureo-brunneo, verruculoso.

Hab. in ovariis *Persicariae Truelli* (KOIDZ.) HONDA (= *Polygoni senticosi* FR. et SAV.), Shiriuchi, Prov. Oshima (K. MIYABE, 15 Julio 1890—*typus*); Fukuyama, Prov. Oshima (K. MIYABE, 19 Julio 1890); Kyoto, Prov. Yamashiro (Y. TAKAHASHI, 17 Julio 1895); Morioka, Prov. Rikuchu (Y. TAKAHASHI, 16 Sept. 1897); Miyako, Prov. Rikuchu (K. TOGASHI, 6 Aug. 1932); Tonoshiro, Prov. Shinano (U. KOYAMA, 11 Oct. 1900); Sakawa, Prov. Tosa (T. YOSHINAGA, Junio 1900); Hokkezu, Prov. Iyo (M. SUEMITSU, 31 Julio 1905).

Distrib. Hokkaido, Honshu, Shikoku, Kyushu.

67. *Sphacelotheca ustilaginea* (DC.) S. ITO, comb. nov.

Uredo bistortarum γ *ustilaginea* DC. Fl. Fr. VI, p. 76, 1815, p. p.

Uredo utriculosa UNG. Einfl. Bodens, p. 211, 1836, p. p.

Ustilago utriculosa MAGN. Pilze Fl. Tirol, III, p. 34, 1905, p. p.

Sphacelotheca hydropiperis DEBARY, in SACC. Syll. VII, p. 499, 1888, p. p.

S. Polygoni-vivipari SCHELL. Ann. Myc. V, p. 388, 1907.

Ustilago ustilaginea LILO, Ustil. Finn. I, p. 7, 1924.

Hab. in ovariis *Polygoni vivipari* L.

Distrib. Kurile Isl., Hokkaido.

68. *Sphacelotheca Penniseti-japonici* (P. HENN.) S. ITO, comb. nov.

Ustilago Penniseti-japonici P. HENN. Hedw. XLIII, p. 140, 1904—SACC. Syll. XVII, p. 478. (P. HENN. in ENGL. Bot. Jahrb. XXXIV, p. 594, 1905—SHIRAI, List, I, p. 113, 1905; II, p. 721, 1917; III, p. 420, 1927—SYDOW, Ann. Myc. VII, p. 173, 1909; XI, p. 112, 1913).

Hab. in ovariis *Penniseti purpurascens* MAKINO (= *P. japonici* Trin.).

Distrib. Honshu, Shikoku, Kyushu.

69. *Farysia Caricis-filicinae* S. ITO, sp. nov.

Soris in ovariis evolutis, globosis, 3–4 mm diam., primo in glumis tectis, dein erumpentibus, atro-brunneis; sporis globosis, ellipsoideis, rarius piriformibus vel irregulariter triangulatis, 6–11 × 6–7.5, vulgo 8 × 6 μ ; inter sporas hyphis faciculatis intermixtis; episporio brunneo, conspi-verruculoso.

Hab. in ovariis *Caricis filicinae* NEES. Nichigetsutan, Formosa (Y. KUDO & S. SASAKI, 17 Sept. 1919—*typus*).

Distrib. Formosa.

The present species differs from *F. olivacea* and *F. Merrillii* in its larger spores and dark yellowish brown sori respectively.

70. *Cintractia Fimbristylis-kagiensis* SAWADA, Descrip. Catal. Form. Fg. II, p. 79, 1922, nom. seminud.

Soris ovariis 1–3 frumentorum in spica occupantibus, tumefactis, massa sporarum atra ostendentibus, globosis, 2–2.5 cm; frumentis aegrotis persistentibus; sporis leniter massis et facile discretis, globosis vel frequenter ellipsoideis, luteo-olivaceis, 14–16 × 11–15; episporio 1 μ , levi.

Hab. in ovariis *Fimbristylis kagiensis* HAYATA

Distrib. Formosa.

71. *Cintractia Suedae* SAWADA, Descrip. Catal. Form. Fg. II, p. 81, pl. IV, fig. 12–16, 1922, nom. seminud.

Soris ovariis frumentorum nonnullorum in spica occupantibus, tumefactis,

globosis vel globoso-depressis, dein nudis, pulverulentis, nigris, 1.8-2.2 mm; hyphis hyalinis intermixtis; sporis massis duris dein discretis, nigris, globosis vel ellipsoideis, 12-18 × 9.6-16; episporio rufo, crasso ca. 1.5 μ , levi; promycelio cylindraceo, 3.5 μ diam., septato; sporidiolis elongatis, longo-ellipsoideis vel fusiformis, hyalinis, aseptatis, 5-9 × 2-3.

Hab. in ovariis *Fimbristylis tikushiensis* HAYATA et *F. diphyllae* VAHL.

Distrib. Formosa.

72. *Cintractia subglobosa* S. ITO, sp. nov.

Soris ovariis 2-3 frumentorum in spica occupantibus, nigris, cordiformis vel ellipsoideis, duris, 2-3 mm, primo glumaride tectis, mox nudis; sporis globosis vel ellipsoideis, frequenter depressis, 21.6-26.4 × 16.8-21.6; episporio atro-brunneo, verruculoso.

Hab. in ovariis *Caricis limosae* L. var. *fusco-cupreae* FOCK. Shunkuntan, Prov. Nemuro (M. TATEWAKI, 17 Aug. 1924—*typus*).

Hab. in ovariis *Caricis Buxbaumii* WAHL. Numanohata, Prov. Iburi (M. KASAI, 8 Julio 1907).

Distrib. Hokkaido.

73. *Cintractia variabilis* S. ITO, sp. nov.

Soris ovariis frumentorum numerosorum in spica occupantibus, nigris, duris, globosis, 1.5-2 mm, primo glumis tectis, mox nudis, superficie pulverulentis; sporis globosis, ellipsoideis vel angulatis, frequenter depressis, irregulariter diametribus, 14.4-24.0 μ ; episporio atro-brunneo, echinulato.

Hab. in ovariis *Caricis arenicolae* FR. SCHM. Uchino, Prov. Echigo (S. ITO, 1 Aug. 1930—*typus*); Suga, Prov. Rikuzen (S. Murai, 24 Junio 1931).

Hab. in ovariis *Caricis caespitosae* L. Jimutaki, Saghalien (K. MIYABE & T. MIYAGI, 24 Julio 1906).

Distrib. Saghalien, Hokkaido, Honshu.

74. *Cintractia Fimbristylis-miliaceae* (P. HENN.) S. ITO, comb. nov.

Ustilago Fimbristylis miliaceae P. HENN. in ENGL. Bot. Jahrb. XXXVII, p. 156, 1905—SACC. Syll. XXI, p. 498, 1912. (SHIRAI, List, II, p. 717, 1917; III, p. 419, 1927).

Hab. in ovariis *Fimbristylis miliaceae* L.

Distrib. Honshu.

75. *Cintractia pulchra* S. ITO, sp. nov.

Soris ovariis frumentorum nonnullorum in spica occupantibus, nigris, pulchris, duris, 0.5-1 mm; sporis pallido-brunneis, globosis vel ellipsoideis, 9.6-14.4 ×

7.2-12.0, inter sporarum hyphis brevibus intermixtis, verruculosis.

Hab. in ovariis *Fimbristylis miliaceae* VAHL. Mikazuki, Prov. Tosa (T. YOSHINAGA, Oct. 1907—*typus*).

Distrib. Shikoku.

76. *Cintractia albida* S. ITO, sp. nov.

Soris pedunculatis et pediculatis circumdatis, vermi-formis, 5-10 mm longis, 1.5 mm diam., primo membrana alba tectis, mox nudis, nigris, duris; sporis atro-brunneis, globosis frequenter depressis, tenui-membranaceis hyalinis inclosis, 13-18 μ ; episporio rufo-brunneo, irregulariter verruculoso; cellulis sterilibus globosis vel ellipsoideis, hyalinis, intermixtis.

Hab. in pediculatis et pedunculatis *Rhynchosporae corymbosae* BRITT. Monte Shichisei, Taihoku (T. SUZUKI, Maio 1932—*typus*).

Distrib. Formosa.

In the macroscopical appearance of the sori, the present species is quite similar to *C. leucoderma* and its variety, but the warts on spore-membrane are never arranged in parallel as those of *C. leucoderma*.

77. *Sorosporium Andropogonis-Sorghii* S. ITO, sp. nov.

Soris ovariis pedicellisque spicularum nonnullarum in spica occupantibus, tumefactis elongatis, 5-15 mm long., primo membrana tenui alba tectis, mox nudis, pulverulentis, atro-brunneis; collumella in glumis destruyente cellulosa circumdata; sporis globosis vel ellipsoideis, irregulariter 9.6-13.5 μ ; episporio brunneo, evidente velluculoso; interdum 1-2 hyphis supra sporum comitatis.

Hab. in ovariis pedicellisque *Andropogonis Sorghii* BROT. Hirosaki, Prov. Mutsu (Y. TAKAHASHI, 25 Aug. 1896—*typus*).

Distrib. Honshu.

This species relates to *Sorosporium Ehrenbergii*, but it differs from the latter in the presence of numerous twisted fibers in its sori.

78. *Sorosporium manchuricum* S. ITO, sp. nov.

Sorosporium Panici-miliacei TAKAHASHI, p. p. (MIURA, Flora of Manchuria and east Mongolia, III, p. 203, 1928).

Soris in inflorescentiis evolutis, tumefactis, fusiformis, primo albo-membrana tectis et ab medio-parte vagina erumpentibus, mox massis nigris duris fragilibus erumpentibus; pauci-cellulosis in maturis intermixtis; glomerulis globosis, ellipsoideis 150 μ diam., ovoideis acutis in unilatis 320 $\times$ 220 μ , vel cylindriis 70-170 $\times$ 16-30; sporis globosis vel ellipsoideis, 6-8 μ diam. raro 13 μ longo, brunneis, levibus

Hab. in inflorescentiis *Panici miliacei* L. Sapporo, Prov. Ishikari (S. HASHIMOTO, 5 Sept. 1910—*typus*); Shichinohe, Prov. Mutsu (N. NAMBU, Sept. 1908); Kitashirakawa Kyoto, Prov. Yamashiro (K. TOGASHI, 20 Aug. 1925); Koshurei, Manchuria (KENJI MIYABE, 14 Aug. 1917).

Distrib. Hokkaido, Honshu, Manchuria.

79. *Sorosporium Paspali-Thunbergii* (P. HENN.) S. ITO, comb. nov.

Ustilago Paspali Thunbergii P. HENN. Hedw. XLIII, p. 140, 1904—SACC. Syll. XVII, p. 478. (P. HENN. in ENGL. Bot. Jahrb. XXXIV, p. 593, 1905—SHIRAI, List, I, p. 113, 1905; II, p. 721, 1917; III, p. 420, 1927—SYDOW, Ann. Myc. VII, p. 173, 1909).

Sorosporium Paspali McALP. Smuts of Austr. p. 180, pl. XLIV, fig. 137—139, 1910—SACC. Syll. XXI, p. 513. (SAWADA, Descrip. Catal. Form. Fg. II, p. 84, 1922—SHIRAI, List, III p. 366, 1927).

Hab. in inflorescentiis *Paspali Thunbergii* KUNTH et *P. scrobiculati* L.

Distrib. Hokkaido, Honshu, Formosa.

80. *Thecaphora seminis-Convulvuli* (DESM.) S. ITO, comb. nov.

Uredo seminis Convulvuli DESM. Plant. Crypt. Fr. no. 274.

Ustilago capsularum Fr. Syst. Myc. III, p. 519, 1829.

Thecaphora hyalina FINGERH. in Linn. X, p. 230, 1836—FISCH. d. WALDH. Les Ustil. esq. Monogr. p. 67, 1878—FUCK. Symb. Myc. p. 41, 1869—PLOWR. Monogr. Brit. Ured. & Ustil. p. 295, 1889—SACC. Syll. VII, p. 508—SCHELL. Beitr. Krypt. Schw. III, (2), p. 156, fig. 77, 1911—SCHRÖT. Pilze Schles. I, p. 288, 1887. (SHIRAI, List, II, p. 651, 1917; III, p. 387, 1927—TAKAHASHI, Trans. Sapporo Nat. Hist. Soc. I, p. 181 (174), 1906).

T. capsularum DESM. in TULASNE, Ann. Sci. Nat. sér. 5, V, p. 135, 1866—BUBÁK, Pilze Böhm. II, p. 37, 1916—LINDAU, Krypt. Mark Brand. V, a, (3), p. 38, fig. 2 (p. 40), 1914.

Sorosporium hyalinum WINT. Pilze Deut. I, p. 105, 1884.

Hab. in ovariis *Calystegiae sepium* R. Br.

Distrib. Hokkaido.

81. *Entyloma Alopecuri* SAWADA, Descrip. Catal. Form. Fg. II, p. 86, pl. IV, fig. 17-24, 1922, nom. seminud. (SHIRAI, List, III, p. 130, 1927).

Soris in foliis, vaginis et culmis; maculis in foliis primo luteis, punctatis, longitudinaliter seriatis, mox brunneis, in culmis tumefactis, rectis vel curvatis, ab vagina erumpentibus; sporis in culmis numerosis evolutis, globosis, pallido-luteis vel pallido-luteo-brunneis, 16.8-24 × 16.8-20; episporio crasso, 2-3 μ ,

irregulariter distincte verruculoso interdum catenato, frequenter reticulato; conidiis superficie soro evolutis, in apice conidiophoro solitario formantibus, commatiformibus, hyalinis, aseptatis, levis, $14-35 \times 5-8$.

Hab. in foliis, vaginis, culmis *Alopeculi geniculati* L.

Distrib. Formosa.

82. *Melanotaenium Tochinaianum* S. ITO, sp. nov.

Soris atris, in foliis et praecipuis venis et caulibus, plumbeo-grisea in strata longis; sporis intercellularis, globosis, ellipsoideis vel irregularibus, $16-24 \times 11-18$, omnino $20 \times 15 \mu$; episorio brunneo, levide, $1.2-3.8 \mu$ crass.; germinationibus incomptis.

Hab. in foliis *Peracarpae carnosae* Hook f. et THOME, Sapporo, Prov. Ishikari (Y. TOCHINAI, 9 Junio 1923—*typus*); Sapporo, Prov. Ishikari (Y. TOKUNAGA, 21 Maio 1928; 4 Junio 1928; 26 Maio 1929; 15 Maio 1930; Y. IMAI, 17 Junio 1930); Nopporo, Prov. Ishikari (Y. TOKUNAGA, 4 Junio 1928).

Distrib. Hokkaido.

83. *Melanotaenium Adoxae* (BREF.) S. ITO, comb. nov.

Urocystis (?) *Adoxae* BREF. Unters. Gesammtgeb. Myk. XII, p. 119, pl. VII, fig. 12, 1895—SACC. Syll. XIV, p. 410.

Hab. in foliis, caulibus, rhizomis *Adoxae Moschattelinae* L.

Distrib. Hokkaido.

84. *Tuburcinia Miyabeana* (TOGASHI et ONUMA) TOGASHI, comb. nov.

Urocystis Miyabeana TOGASHI et ONUMA, Jap. Journ. Bot. V, p. 25, fig. 1, 1930.

Hab. in foliis, vaginis *Convallariae majalis* L.

Distrib. Honshu.

85. *Tuburcinia Ornithogali* (KOERN.) S. ITO, comb. nov.

Urocystis Ornithogali KOERN. in FISCH. v. WALDH. Apercu Syst. Ust. p. 41, 1877—SACC. Syll. VII, p. 517—SCHELL. Beitr. Krypt. Schw. III, (2), p. 139, fig. 70, 1911.

U. hypogaea KOERN. in FUCH. Symb. III, p. 9, 1874.

Hab. in foliis vivis *Scillae Thunbergii* MIYABE et KUDO.

Distrib. Honshu.

86. *Tuburcinia Trillii* (JACKS.) MIYABE, comb. nov.

Urocystis Trillii JACKS. Mycologia, XII, p. 151, 1920—SACC. Syll. XXIII, p. 629.

U. Trillii MIYABE in sched. (SHIRAI, List, II, p. 659, 1917).

Hab. in foliis, caulibus *Trillii Smallii* MAX. et *T. kamtschatici* PALL.

Distrib. Hokkaido, Honshu.

87. *Tubercinia Rodgersiae* (MIYABE) MIYABE, comb. nov.

Urocystis Rodgersiae MIYABE in sched.

Soris in foliis omnino venis, hypophyllis, globosis vel elongatis, deformis, 1 cm ca., in medio-venis 2 cm, primo includis cito erumpentibus, nigris, nudis; glomerulis globosis, ellipsoideis vel irregularibus, atro-brunneis, opacis, irregulariter 26–40 μ , interdum 70 μ longis, 1–6 sporis compositis, omnino 3–4, rare 7, cellulis sterilibus perfectis vel imperfectis inclusis; cellulis periphericis ellipsoideis vel subglobosis, brunneis, 8–16 μ ; sporis globosis, ellipsoideis, in internis depressis, atro-brunneis, 13–19 μ , interdum 22 μ longis.

Hab. in foliis *Rodgersiae podophyllae* A. GR. Monte Yudono, Prov. Uzen (K. MIURA, 14 Aug. 1905—*typus*; G. YAMADA, 8 Aug. 1901); Monte Kurikoma, Prov. Ugo (G. YAMADA, 3 Aug. 1908).

Distrib. Honshu.

88. *Doassansia disticha* S. ITO, sp. nov.

Soris in foliis; maculis globosis vel irregularibus, amphigenis, tumefactis, pallido-brunneis vel rufo-brunneis, sparsis, 1–12 $\times$ 17 mm; glomerulis inter epidermides evolutis, destichis, confertis, non destruentibus, ellipsoideis longi-ellipsoideis vel longi-oblongis, 200–546 $\times$ 140–280; cellulis corticis simplicibus, pallido-brunneis vel luteo-brunneis, longi-ellipsoideis vel longo-triangularibus, 19–34 $\times$ 10–17; sporis pallido-brunneis vel luteo-brunneis, subglobosis, ellipsoideis vel angularibus, 9–12 $\times$ 13–16, levibus.

Hab. in foliis *Sagittariae trifoliae* L. var. *typicae* MAKINO, Tottori, Prov. Inaba (N. HIRATSUKA, Oct. 1930—*typus*); Nakano, Morioka, Prov. Rikuchu (K. TOGASHI, 1 Sept. 1927).

Distrib. Honshu.

According to the larger size of spore-balls and their occurrence in two layers in mesophyll, the present fungus differs from *Doassansia opaca* on *Sagittaria variabilis* in America.

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