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ADDITIONAL LIST OF THE FUNGI
COLLECTED IN THE ISLANDS OF RISHIRI
AND REBUN, HOKKAIDO

BY

MUTSUO TERUI

利尻、禮文兩島に於ける菌類採集目錄補遺

照井陸奥生

In 1924, K. TOGASHI published a list entitled "Fungi Collected in the Islands of Rishiri and Rebun, Hokkaido" in the Japanese Journal of Botany Vol. II, No. 2, and he enumerated 139 species including 8 new species.

In the last summer, the writer spent a few days for the purpose of the collection of the fungi in the Islands of Rishiri and Rebun with Messrs. K. FUJITA, Y. TOKUNAGA and M. SAKAMOTO. In the excursion, we collected 35 species of the parasitic fungi which were unrecorded by TOGASHI in the above mentioned list.

Among them 1 species of *Puccinia* and 1 species of *Peronospora*, viz., *Puccinia sibirica* and *Peronospora Kochiae*, are new to Japan and 1 species of *Puccinia* which is parasitic on *Adenophora verticillata* seems to be new to science.

The present short paper was intended to supplement the TOGASHI's list by his sincere recommendation.

1. *Cladochytrium Krugerianum* (MAGN.) FISCH.

Hab. On leaves and petioles of *Cnidium ajanense* DRUDE (*Chishima-ninjin*)
Rebun-Island:—Momoiwa, July, 17, 1930.

2. *Albugo candida* (PERS.) KUNTZE

Hab. On leaves of *Arabis Stelleri* DC. var. *japonica* FR. SCHM. (*Hamahatazao*)

Rishiri-Island:—Oatomari, July, 14, 1930.

3. *Albugo Tragopogonis* (PERS.) S. F. GRAY

Hab. On leaves of *Senecio pseudo-Arnica* LESS. (*Yezo-oguruma*)

Rishiri-Island:—Oatomari, July, 14, 1930.

4. *Basidiophora entospora* ROZE et CORNU

Hab. On leaves of *Erigeron canadensis* PERS. (*Hime-mukashiyomogi*)

Rishiri-Island:—Oatomari, July, 14, 1930.

5. *Peronospora alta* FÜCK.

Hab. On leaves of *Plantago kamtschatica* LINK. (*Yezo-ōbako*)

Rishiri-Island:—Oatomari, July, 14, 1930.

6. *Peronospora Kochiae* GÄUM.

Hab. On leaves of *Kochia scoparia* SCHRAD. (*Hahaki-gusa*)

Rishiri-Island:—Oniwaki, July, 15, 1930.

7. *Plasmopara nivea* SCHROET.

Hab. On leaves of *Osmorhiza aristata* MAK. et YABE (*Yabu-ninjin*)

Rishiri-Island:—Oatomari, July, 14, 1930.

8. *Rhytisma salicinum* (PERS.) FR.

Hab. On leaves of *Salix Reimii* FRANCH. et SAV. (*Mine-yanagi*)

Rebun-Island:—Momoïwa, July, 17, 1930; Rishiri-Island:—Mt. Rishiri, July, 15, 1930.

9. *Cintractia Caricis* (PERS.) P. MAGN.

Hab. On inflorescences of *Carex blepharicarpa* FRANCH. (*Shōjō-suge*)

Rishiri-Island :—Mt. Rishiri, July, 15, 1930.

10. *Ustilago striaeformis* (WESTENDORP) NIESSL.

Hab. On leaves and stems of *Phleum pratense* L. (*Ô-awagaeri*)

Rishiri-Island :—Oatomari, July, 14, 1930.

11. *Chrysomyxa Ledi* DE BARY

Hab. On leaves of *Ledum palustre* L. var. *yessoense* NAKAI (*Yezo-isotsutsuji*)

Rishiri-Island :—Oatomari, July, 14, 1930.

12. *Pucciniastrum Potentillae* KOM.

Hab. On leaves of *Potentilla fragarioides* L. (*Kijimushiro*)

Rebun-Island :—Momoïwa, July, 16, 1930.

13. *Phragmidium Rubi-japonici* KASAI

Hab. On leaves of *Rubus pseudo-japonicus* KOIDZ. (*Hime-goyôichigo*)

Rishiri-Island :—Mt. Rishiri, July, 15, 1930.

14. *Puccinia Adenophorae-verticillatae* S. ITO et TERUI n. sp.

Teleutosori amphigenous, mostly hypophyllous, scattered, round, 1–2 mm. in diameter, sometimes confluent along the nerves of the leaf, covered for a

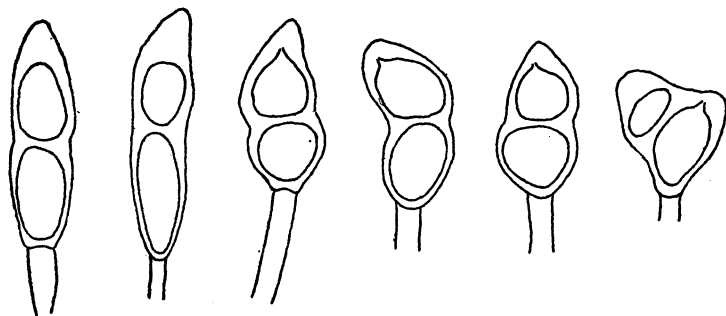


Fig. 1

Puccinia Adenophorae-verticillatae

S. ITO et TERUI

(× 580)

long time by the epidermis, then naked, surrounded by the torn epidermis, blackishbrown; teleutospores ellipsoidal, oblong or clavate, rounded or at-

tenuated at both ends, more or less constricted at the septum, apex thickened (8–10.5 μ), smooth, chestnut-brown, 26–58 \times 13–26 μ , rarely 64 μ in length; pedicels hyaline, persistent, as long as the spores or shorter.

Hab. On leaves of *Adenophora verticillata* FISCH. var. *typica* REGEL (*Tsurigane-ninjin*)

Rebun-Island:—Momoïwa, July, 18, 1930.

Remarks. The present fungus is easily distinguishable from *Puccinia Campanulæ* by its longer and wider teleutospores.

15. *Puccinia Adoxae* HEDW.

Hab. On leaves and petioles of *Adoxa Moschatellina* L. (*Rempukusô*)

Rishiri-Island:—Mt. Rishiri, July, 15, 1930.

16. *Puccinia Arenariae* (SCHUM.) WINT.

Hab. On leaves of *Moehringia lateriflora* FENZL. (*Ôyama-fusuma*)

Rebun-Island:—Momoïwa, July, 16, 1930.

17. *Puccinia Caricis* (SCHUM.) REB.

Hab. On leaves of *Carex scita* MAXIM. (*Mashike-suge*)

Rishiri-Island:—Mt. Rishiri, July, 15, 1930.

On leaves of *Urtica dioica* L. var. *platyphylla* WEBB. (*Ôba-irakusa*)
Rishiri-Island:—Mt. Rishiri, July, 15, 1930.

18. *Puccinia Circaeae* PERS.

Hab. On leaves of *Circaea alpina* L. (*Miyama-tanitadê*)

Rebun-Island:—Momoïwa, July, 16, 1930.

19. *Puccinia Phragmitis* (SCHUM.) KOERN.

Hab. On leaves of *Rumex obtusifolius* L. (*Yezo-no-gishigishû*)

Rishiri-Island:—Oatomari, July, 14, 1930.

20. *Puccinia Poarum* NIELS.

Hab. On leaves of *Petasites japonicus* MIQ. var. *giganteus* MAK. (*Ô-buki*)

Rishiri-Island :—Oniwaki, July, 14, 1930.

21. *Puccinia punctata* LINK

Hab. On leaves and stems of *Galium verum* L. var. *typicum* MAXIM.
(*Kibana-no-kawara-matsuba*)

Rishiri-Island :—Oatomari, July, 14, 1930.

22. *Puccinia sessilis* SCHNEID.

Hab. On leaves of *Orchis aristata* FISCH. (*Hakusan-chidori*)

Rishiri-Island :—Mt. Rishiri, July, 15, 1930.

23. *Puccinia sibirica* TRANZSCH.

Hab. On leaves of *Polygonum polymorphum* LEDEB. var. *ajanense* REGEL
et TIL. f. *pilosum* TAKEDA (*Hosoba-ontade*)

Rebun-Island :—Momoïwa, July, 17, 1930.

Remarks. There is no record on the occurrence of this fungus in Japan and the character of this fungus is as follows:—

Uredosori hypophyllous, scattered, round, $1/4-1/2$ mm. in diameter, cinnamon-brown; uredospores globoid, subgloboid or ellipsoidal, $22-28 \times 18-24 \mu$, wall subhyaline, echinulate; teleutosori hypophyllous, scattered, round, $1/4-1/2$ mm. across, early naked, blackish-brown; teleutospores ellipsoidal, oblong or subgloboid, mostly rounded at both ends, not or slightly constricted at the septum, not thickened above, more or less verruculose, brown, $24-32 \times 18-22.5 \mu$, germ-pore of the upper cell at the apex or just above the septum, that of the lower just below the septum; pedicels hyaline, deciduous.

24. *Puccinia Sonchi* (ROB.) DESMAZ.

Hab. On leaves of *Sonchus arvensis* L. var. *uliginosus* TRAUTV. (*Hachijō-na*)

Rishiri-Island :—Oatomari, July, 14, 1930.

25. *Puccinia Taraxaci* PLOWR.

Hab. On leaves of *Taraxacum platycarpum* DEHLST. (*Tanpopo*)

Rishiri-Island :—Oatomari, July, 14, 1930.

26. *Puccinia triticina* ERIKS.

Hab. On leaves of *Thalictrum minus* L. var. *elatum*. LECOY. (*Aki-karamatsu*)

Rishiri-Island :—Otatomari, July, 14, 1930.

27. *Pucciniostele Clarkiana* DIET.

Hab. On leaves and petioles of *Astilbe Thunbergii* MIQ. var. *congesta* BOISS. (*Toriashi-shōma*)

Rebun-Island :—Momoïwa, July, 17, 1930.

28. *Uromyces Hedysari-obscuri* (DC.) CAR. et PIC.

Hab. On leaves of *Hedysarum obscurum* L. var. *neglectum* TRAUTV. (*Chishima-genge*)

Rebun-Island :—Momoïwa, July, 16, 1930.

29. *Uromyces Muehlenbergiae* ITO

Hab. On leaves of *Muehlenbergia japonica* STEUD. (*Nezumi-gaya*)

Rishiri-Island :—Otatomari, July, 14, 1930.

30. *Uromyces Peracarpae* ITO et TOCHINAI

Hab. On leaves of *Peracarpa carnosae* HOOK. F. (*Tani-gikyō*)

Rishiri-Island :—Mt. Rishiri, July, 15, 1930.

31. *Uromyces Trifolii-repentis* (CAST.) LIRO

Hab. On leaves of *Trifolium repens* L. (*Shiro-tsumekusa*)

Rishiri-Island :—Otatomari, July, 14, 1930 ; Rebun-Island :—Momoïwa, July, 16, 1930.

32. *Uromyces Veratri* (DC.) SCHROET.

Hab. On leaves of *Veratrum album* L. var. *grandiflorum* MAXIM. (*Baikaisō*)

Rebun-Island :—Momoïwa, July, 16, 1930.

33. *Accidium Periclymeni* SCHUM.

Hab. On leaves of *Salix arctica* PALL. (*Chishima-yanagi*)

Rishiri-Island :—Mt. Rishiri, July, 15, 1930.

34. *Exobasidium hemisphaericum* SHIRAI

Hab. On leaves of *Rhododendron chrysanthum* PALL (*Kibana-shakunage*)

Rishiri-Island :—Mt. Rishiri, July, 15, 1930.

35. *Phyllosticta Polygonati* BÄUMLER

Hab. On leaves of *Polygonatum humile* FISCH. (*Hime-amadokoro*)

Rebun-Island :—Momoiwa, July, 16, 1930.

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摘 要

1924年 富樫浩吾氏 ハ利尻、禮文兩島ニ於ケル菌類採集目錄ヲ日本植物學叢報第二卷第二號ニ發表シ、139種ノ菌類ヲ報告セラレタリ。著者ハ今年夏當教室ノ藤田勝正、徳永義雄、坂本正幸ノ諸君ト同地ノ採集旅行ヲ試ミタルニ上記目錄ニハ未ダ記載セラレザル寄生菌類35種ヲ得タレバ、其ノ補遺トシテ此處ニ列擧セリ。

其ノ内 *Puccinia sibirica* 及ビ *Peronospora Kichia* ノ二種ハ未ダ本邦ニ産スル事ヲ報セラレザル種類ニシテ、ツリガネニンジン (*Adenophora verticillata* FISCH. var. *typica* REGEL) ニ寄生スル *Puccinia* 屬ノ一種ノ寄生菌ハ之ヲ新種ト認メ、次ノ學名ヲ與ヘタリ。

Puccinia Adenophorae-verticillata S. ITO et TERUI