HOKKAIDO UNIVERSITY

Title	阿寒湖付近ニ產スル銹菌類
Author(s)	平塚, 直秀
Citation	札幌博物学会会報, 9(2), 225-238
Issue Date	1927-10-15
Doc URL	https://hdl.handle.net/2115/63130
Type	journal article
File Information	Vol.9No.2_004.pdf

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A LIST OF UREDINALES COLLECTED IN THE VICINITY OF LAKE AKAN, HOKKAIDÔ.

BY

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阿寒湖附近ニ産スル銹菌類

平塚直秀

In the early summer of 1922, the writer visited Lake Akan with Messrs. H. SUZUKI and A. ABE, and collected many parasitic fungi on Mt. Meakan near the lake. The second visit was undertaken for the purpose of botanical collection with Mr. M. OKAMOTO in the summer of 1923 and we spent a week at the lakeside. In the autumn of 1925 the writer made a third visit with Mr. M. TATEWAKI, and especially endeavoured to get material for study on the mycological flora of the vicinity of Lake Akan. The fourth visit was made by the writer with Mr. M. TATEWAKI in the latter part of August 1926 for the same purpose.

During these four excursions, more than 200 species of fungi including 98 species of Uredinales have been collected. Among them, the following two rust fungi are considered as new to the mycological flora of Japan: *Puccinia uralensis* TRANZSCH. and *Thekopsora guttata* (SCHRÖT.) SYD. The present short paper is intended to report the Uredinales collected in the vicinity of Lake Akan.

PUCCINIACEÆ

1. **Miyagia Anaphalidis** MIYABE

Hab. On leaves of *Anaphalis margaritacea* BENTH. et HOOK. (*Yamahahako*). Pirikaneppu (II, III, Sept. 9, 1925), Shirikomabetsu (II, III, Sept. 11, 1925).

[Trans. of Sapporo Natural History Soc. Vol. IX, Part 2, 1927.]

2. **Phragmidium americanum** DIET.

Hab. On leaves of *Rosa Marretii* LÉV. (*Karafuto-bara*). Pirikaneppu (III, Sept. 9, 1925), Nanamagari (II, III, Sept. 9, 1925).

3. **Phragmidium Nambuanum** DIET.

Hab. On leaves of *Rubus Kinashii* LÉV. et VNT. (*Kuro-ichigo*). Mt. Oakan (II, III, Aug. 10, 1923).

4. **Phragmidium pauciloculare** SYD.

Hab. On leaves of *Rubus triphyllus* THUNB. (*Nawashiro-ichigo*). Mt. Meakan (II, III, Aug. 7. 1923).

5. **Phragmidium Potentillae** (PERS.) KARST.

Hab. On leaves of *Potentilla cryptotaeniae* MAXIM. (*Mitsumotosô*). Akubetsu (II, III, Sept. 15, 1925).

6. **Phragmidium Rubi-Idaei** (DC.) KARST.

Hab. On leaves of *Rubus Kinashii* LÉV. et VNT. (*Kuro-ichigo*). Mt. Oakan (III, Sept. 10, 1725).

On leaves of *Rubus Idaeus* L. var. *aculeatissimus* RGL. et TIL. (*Yezo-ichigo*). Nanamagari (III, Aug. 6, 1923), Mt. Oakan (II, III, Sept. 10, 1925).

7. **Phragmidium Rubi-japonici** KASAI

Hab. On leaves of *Rubus pseudo-japonicus* KOIDZ. (*Hime-goyô-ichigo*). Mt. Oakan (II, III, Sept. 10, 1925), Shirikomabetsu (III, Sept. 11, 1925), Mt. Meakan (II, III, Sept. 14, 1925).

8. **Phragmidium Yoshinagai** DIET.

Hab. On leaves of *Rubus crataegifolius* BGE. (*Kuma-ichigo*). Mt. Meakan (III, Sept. 14, 1925).

9. **Puccinia Absinthii** DC.

Hab. On leaves of *Artemisia japonica* THUNB. (*Otoko-yomogi*). Akubetsu (III, Sept. 7, 1925).

10. **Puccinia acuminata** PECK

Hab. On leaves and petioles of *Cornus canadensis* L. (*Gozentachibana*). Mt. Meakan (III, Aug. 7, 1923; III, Aug. 20, 1926; III, Sept. 14, 1925), Mt. Oakan (III, Aug. 10, 1923; III, Aug. 21, 1926; III, Sept. 10, 1925),

Shirikomabetsu (III, Sept. 11, 1925).

11. **Puccinia Angelicae** (SCHM.) FUCK.

Hab. On leaves of *Angelica refracta* FR. SCHM. (*Yezo-ôbasenkyû*). Mt. Meakan (II, III, Sept. 15, 1925).

12. **Puccinia angustata** PECK

Hab. On leaves of *Scirpus Eriophorum* MICHX. (*Yezo-no-aburagaya*). Mt. Oakan (III, Aug. 10, 1923), Mt. Meakan (III, Sept. 14, 1925).

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

Hab. On leaves of *Moehringia lateriflora* FENZL. (*Ôyamafusuma*). Mt. Meakan (III, Aug. 7, 1923).

14. **Puccinia argentata** (SCHULTZ.) WINT.

Hab. On leaves of *Impatiens noli-tangere* L. (*Ki-tsurifune*). Bokke (III, Aug. 9, 1923).

15. **Puccinia Artemisiae-Keiskeanae** MIURA

Hab. On leaves of *Artemisia Keiskeana* MIQ. (*Inu-yomogi*). Pirikaneppu (III, Sept. 9, 1925).

16. **Puccinia Asparagi-lucidi** DIET.

Hab. On leaves of *Asparagus schoberioides* KUNTH. (*Kijikakushi*). Bokke (II, III, Sept. 9, 1925), Nanamagari (II, III, Sept. 13, 1925).

17. **Puccinia brevicornis** S. ITÔ

Hab. On leaves of *Calamagrostis villosa* MUT. (*Iwa-nogariyasu*). Bokks (III, Aug. 11, 1923).

18. **Puccinia calmunata** SYD.

Hab. On leaves of *Polygonum Weyrichii* FR. SCHM. (*Urajiro-tade*). Mt. Meakan (II, III, Sept. 14, 1925).

19. **Puccinia Calthae** LINK

Hab. On leaves of *Caltha palustris* L. (*Yezo-riukinkwa*). Mt. Meakan (III, Aug. 11, 1923).

20. **Puccinia Campanulae** CARMICH.

Hab. On leaves and petioles of *Campanula lasiocarpa* CHAM. (*Iwa-gikyô*).

Mt. Oakan (III, Aug. 10, 1923; III, Aug. 21, 1926; III, Sept. 10, 1925).

Remarks: *Campanula lasiocarpa* CHAM. is a new host plant to the present species.

21. **Puccinia Caricis-siderostictae** DIET.

Hab. On leaves of *Carex siderosticta* HANCE. var. *bracteosa* FRANCH. (*Yezo-no-takanesô*). Shirikomabetsu (III, Sept. 11, 1925).

22. **Puccinia Chrysosplenii** GREV.

Hab. On leaves and stems of *Chrysosplenium flagelliferum* FR. SCHM. (*Tsurunekonome*). Mt. Meakan (III, Sept. 15, 1925).

23. **Puccinia Cicutae** LASCH.

Hab. On leaves of *Cicuta virosa* L. (*Dokuzeri*). Bokke (II. III, Sept. 9, 1925).

24. **Puccinia Circaeae** PERS.

Hab. On leaves of *Circaea alpina* L. (*Miyama-tanitade*). Mt. Meakan (III, Aug. 7, 1923), Onne-moshiri (III, Aug. 19, 1926), Mt. Oakan (III, Sept. 10, 1925).

25. **Puccinia Clintoniae-udensis** BUBÁK

Hab. On leaves of *Clintonia udensis* TRAUTV. et MEY. (*Tsubame-omoto*). Pon-moshiri (III, Aug. 19, 1926).

26. **Puccinia erythropus** DIET.

Hab. On leaves of *Miscanthus sinensis* ANDERS. var. *purpurascens* HOOK. f. (*Murasaki-susuki*). Akubetsu (II, III, Aug. 6, 1923), Bokke (III, Aug. 10, 1923).

27. **Puccinia Eulaliae** BARCL.

Hab. On leaves of *Miscanthus sinensis* ANDERS. var. *purpurascens* HOOK. f. (*Murasaki-susuki*). Mt. Meakan (III, Sept. 10, 1925), Bokke (III, Sept. 13, 1925).

28. **Puccinia ferruginosa** SYD.

Hab. On leaves of *Artemisia japonica* THUNB. (*Otoko-yomogi*). Akubetsu

(III, Sept. 8, 1925), Mt. Oakan (III, Sept. 10, 1925), Shitakara (III, Sept, 16, 1925).

29. **Puccinia Funkiae** DIET.

Hab. On leaves of *Hosta japonica* ASCHERS. forma *lancifolia* KUDÔ (*Mizugibôshu*). Mt. Meakan (III, Aug. 7, 1923).

30. **Puccinia Haleniae** ARTH. et HOLW.

Hab. On leaves and stems of *Halenia sibirica* BORKH. (*Hanaikari*). Nanamagari (III, Sept. 15, 1925), Mt. Meakan (III, Sept. 15, 1925).

31. **Puccinia Hemerocallidis** THÜM.

Hab. On leaves of *Hemerocallis Middendorfii* TRAUTV. et MEY. (*Yezo-kansô*). Nanamagari (II, III, Sept. 9, 1925).

32. **Puccinia Hieracii** (SCHM.) MART.

Hab. On leaves of *Hieracium umbellatum* L. (*Yanagi-tampopo*). Mt. Oakan (II, III, Aug. 10, 1923), Nanamagari (II, Sept. 9, 1925).

33. **Puccinia Lactucae** DIET.

Hab. On leaves of *Lactuca dentata* MAK. var. *Thunbergii* MAK. (*Nigana*). Rubeshibe (II, III, Aug. 7, 1923), Nanamagari (II, III, Sept. 15, 1925).

34. **Puccinia lactucicola** MIURA

Hab. On leaves of *Lactuca Raddeana* MAXIM. (*Yama-nigana*). Bokke (II, Aug. 9, 1923; III, Sept. 13, 1925), Onne-moshiri (II, III, Aug. 19, 1926), Pon-moshiri (II, III, Aug. 19, 1926).

35. **Puccinia Magnusiana** KOERN.

Hab. On leaves of *Phragmites communis* TRIN. (*Yoshi*). Bokke (II, III, Sept. 13, 1925).

36. **Puccinia Majanthemi** DIET.

Hab. On leaves, petioles and stems of *Majanthemum canadense* DESV. var. *kamtschaticum* KUDÔ (*Maizurusô*). Mt. Meakan (III, Aug. 7, 1923; III, Aug. 20, 1926; III, Sept. 14, 1925), Chûrui-moshiri (III, Aug. 19, 1926).

37. **Puccinia Menthae** PERS.

Hab. On leaves and stems of *Mentha sachalinensis* KUDÔ (*Yezo-hakkwa*).

Shirikomabetsu (II, III, Sept. 11, 1925), Bokke (II, III, Sept. 13, 1925).

38. **Puccinia Nepetae** TOGASHI

Hab. On leaves of *Nepeta subsessilis* MAXIM. var. *yezoensis* FRANCH. et SAV. (*Yezo-misogawasô*). Mt. Meakan (III, Sept. 14, 1925), Shitakara (III, Sept. 16, 1925).

39. **Puccinia Patriniae** P. HENN.

Hab. On leaves of *Patrinia villosa* JUSS. (*Otokoheshi*). Akubetsu (III, Aug. 6, 1923; III, Sept. 7, 1925), Rubeshibe (III, Sept. 9, 1925).

40. **Puccinia Phragmitis** (SCHM.) KOERN.

Hab. On lesves of *Phragmites communis* TRIN. (*Yoshi*). Bokke (III, Sept. 13, 1925).

41. **Puccinia Picridis** HAZSL.

Hab. On leaves of *Picris japonica* THUNB. (*Kôzorina*). Shirikomabetsu (II, III, Sept. 11, 1925), Mt. Meakan (II, III, Sept. 14, 1925), Chûrui-moshiri (II, III, Aug. 19, 1926), Onne-moshiri (II, III, Aug. 1926).

42. **Puccinia Pimpinellae** LINK

Hab. On leaves of *Pimpinella calycina* MAXIM. (*Dakezeri*). Mt. Meakan (II, III, Sept. 14, 1925).

43. **Puccinia Polygoni-amphibii** PERS.

Hab. On leaves of *Polygonum lapathifolium* L. var. *incanum* LEDEB. (*Yezo-inutade*). Bokke (II, III, Aug. 18, 1926; II, III, Sept. 15, 1925).

On leaves of *Polygonum sachalinense* FR. SCHM. (*Ô-itadori*). Rubeshibe (II, III, Sept. 9, 1925), Pirikaneppu (II, III, Sept. 9, 1925), Mt. Meakan (III, Sept. 13, 1923).

On leaves of *Polygonum Thunbergii* SIEB. et ZUCC. (*Mizo-soba*). Bokke (II, III, Sept. 13, 1923).

44. **Puccinia punctata** LINK

Hab. On leaves and stems of *Galium verum* L. var. *typicum* MAXIM. (*Kibana-no-kawaramatsuba*). Akubetsu (III, Sept. 7, 1925).

45. **Puccinia Rubiae-tataricae** SYD.

Hab. On leaves and stems of *Rubia jezoensis* MIYABE et MIYAKE (*Yezo-*

mugura). Shitakara (II, III, Sept. 16, 1925).

46. **Puccinia Saxifragae** SCHLECHT.

Hab. On leaves of *Saxifraga fusca* MAXIM. (*Kurokumosô*). Mt. Meakan (III, Sept. 14, 1925).

47. **Puccinia sessilis** SCHNEID.

Hab. On leaves of *Phalaris arundinacea* L. (*Kusa-yoshi*). Bokke (II, III, Aug. 18, 1926), Onne-moshiri (II, III, Aug. 19, 1926).

48. **Puccinia subcircinata** ELL. et SCHM.

Hab. On leaves of *Senecio palmatus* PALL. (*Hangonsô*). Mt. Meakan (I, III, Aug. 10, 1923).

49. **Puccinia Thalictri** CHEV.

Hab. On leaves of *Thalictrum minus* L. var. *elatum* LECOY. (*Aki-karamatsu*). Yûbetsu (III, Aug. 6, 1923), Mt. Oakan (III, Aug. 10, 1923).

50. **Puccinia uralensis** TRANZSCH.

Hab. On leaves of *Cacalia hastata* L. var. *pubescens* LEDEB. (*Ô-yobusumasô*). Mt. Oakan (III, Aug. 10, 1923).

Remarks: This fungus is a new addition to the fungus flora of Japan, and *Cacalia hastata* L. var. *pubescens* LEDEB. is a new host plant to the present fungus. The character of our fungus is as follows:—

Teleutosori hypophyllous, minute, round or ovate, gregarious, with round yellowish spots on the upper surface of leaves (7–10 mm. in diam.), naked, surrounded by the torn epidermis, pulvinate, compact, blackish brown. Teleutospores clavate to oblong, apex considerably thickened (9–12 μ thick) and chestnut-brown, base attenuated, constricted at the septum, smooth, brown, 37.8–52.2= 18.0–27.0 μ; pedicels persistent, hyaline, ca. 45 μ long. Sometimes mesospores mixed in the sori.

51. **Puccinia Violae** (SCHUM.) DC.

Hab. On leaves of *Viola acuminata* LEDEB. (*Yezo-no-tachitsubosumire*). Shirikomabetsu (II, III, Sept. 11, 1925).

On leaves of *Viola Patrini* DC. var. *typica* MAXIM. (*Shirobana-sumire*). Bokke (III, Sept. 13, 1925), Nanamagari (II, III, Sept. 13, 1925).

52. **Puccinia Virgaureae** (DC.) Lib.

Hab. On leaves and petioles of *Solidago Virgaurea* L. (*Akinokirinsô*). Mt. Oakan (III, Sept. 10, 1925), Mt. Meakan (III, Sept. 14, 1925).

53. **Puccinia Waldsteiniae** Curt.

Hab. On leaves of *Waldsteinia sibirica* Tratt. (*Kokinbai*). Mt. Oakan (III, Aug. 10, 1923).

54. **Triphragmium Ulmariae** (Schm.) Link

Hab. On leaves of *Filipendula kamtschatica* Maxim. (*Oni-shimotsuke*). Shirikomabetsu (II, III, Sept. 11, 1925).

55. **Uromyces Aconiti-Lycoctoni** (DC.) Wint.

Hab. On leaves of *Aconitum umbrosum* Kom. (*Ô-reijinsô*). Mt. Meakan (III, Aug. 20, 1926; III, Sept. 15, 1925).

56. **Uromyces Alopecuri** Seym.

Hab. On leaves of *Alopecurus fulvus* L. (*Suzumenoteppô*). Bokke (II, Sept. 14, 1925).

57. **Uromyces amurensis** Kom.

Hab. On leaves of *Maackia amurensis* Rupr. (*Inu-enju*). Bokke (II, III, Sept. 9, 1925), Mt. Oakan (II, III, Sept. 10, 1925), Shirikomabetsu (II, III, Sept. 11, 1925), Nanamagari (II, III, Sept. 15, 1925).

58. **Uromyces Cacaliae** (DC.) Unger

Hab. On leaves of *Cacalia kamtschatica* Kudô (*Mimi-kômori*). Mt. Oakan (III, Sept. 10, 1925).

59. **Uromyces Fabae** (Pers.) De Bary

Hab. On leaves and stems of *Vicia Faba* L. (*Soramame*). Akubetsu (II, III, Sept. 8, 1925).

60. **Uromyces flectens** Lagh.

Hab. On leaves and petioles of *Trifolium repens* L. (*Shirobana-tsumekusa*). Akubetsu (III, Aug. 6, 1923).

61. **Uromyces Lespedezae-procumbentis** (Schw.) Curt.

Hab. On leaves of *Lespedeza bicolor* Turcz. (*Hagi*). Nanamagari (II, III,

Sept. 13, 1923), Bokke (II, III, Sept. 9, 1925).

62. **Uromyces Peracarpae** ITÔ et TOCHINAI

Hab. On leaves of *Peracarpa circaeoides* H. FEER. (*Tani-gikyô*). Mt. Meakan (III, Sept. 14, 1925).

63. **Uromyces Polygoni** (PERS.) FUCK.

Hab. On leaves and stems of *Polygonum aviculare* L. (*Michiyanagi*). Yûbetsu (II, Aug. 6, 1923); Shirikomabetsu (II, Sept. 11, 1925).

64. **Uromyces Rudbeckiae** ARTH. et HOLW.

Hab. On leaves of *Solidago Virgaurea* L. (*Akinokirinsô*). Bokke (III, Sept. 9, 1925), Onne-moshiri (III, Aug. 19, 1926).

65. **Uromyces Solidaginis** (SOMMERF.) NIESSL.

Hab. On leaves and petioles of *Solidago Virgaurea* L. (*Akinokirinsô*). Rubeshibe (III, Sept. 9, 1925), Mt. Oakan (III, Sept. 10, 1925), Mt. Meakan (III, Sept. 14, 1925), Pon-moshiri (III, Aug. 19, 1926).

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

Hab. On leaves and petioles of *Trifolium repens* L. (*Shirobana-tsumekusa*). Akubetsu (I, II, III, Aug. 6, 1923), Shirikomabetsu (II, III, Sept. 11, 1925).

67. **Uromyces Veratri** (DC.) SCHRÖT.

Hab. On leaves of *Veratrum album* L. (*Baikeisô*). Mt. Meakan (III, Aug. 7, 1923).

68. **Xenodochus carbonarius** SCHLECHT.

Hab. On leaves, petioles and stems of *Sanguisorba tenuifolia* FISCH. var. *alba* TRAUTV. et MEY. (*Shirobana-no-nagabono-waremokô*). Nanamagari (II, III, Sept. 13, 1925).

MELAMPSORACEÆ

69. **Calyptospora Goeppertiana** J. KÜHN

Hab. On stems of *Vaccinium Vitis-Idaea* L. (*Kokemomo*). Mt. Oakan (III, Sept. 10, 1925; III, Aug. 21, 1926).

70. **Chrysomyxa Empetri** SCHRÖT.

Hab. On leaves of *Empetrum nigrum* L. (*Gankôran*), Mt. Oakan (II, Aug. 10, 1923).

71. **Chrysomyxa expansa** DIET.

Hab. On leaves of *Rhododendron brachycarpum* D. DON. var. *typicum* NAKAI (*Shirobana-shakunage*). Mt. Meakan (III, July 25, 1922).

72. **Chrysomyxa Pirolae** ROSTR.

Hab. On leaves of *Pirola renifolia* A. GRAY (*Jinyô-ichiyaku*). Mt. Meakan (II, III, July 25, 1922).

73. **Melampsora Hypericorum** SCHRÖT.

Hab. On leaves of *Hypericum erectum* THUNB. var. *axilare* LÉV. f. *dibilis* KELL. (*Ko-edauchi-otogiri*). Nanamagari (I, III, Sept. 15, 1925), Akubetsu (III, Sept. 8, 1925), Bokke (III, Sept. 9, 1925; III, Sept. 13, 1925).

74. **Melampsora Kusanoi** DIET.

Hab. On leaves of *Hypericum Ascyron* L. (*Tomoesô*). Nanamagari (II, III, Sept. 9, 1925), Onne-moshiri (II, III, Aug. 19, 1926).

75. **Melampsora Larici-Capraearum** KLEB.

Hab. On leaves of *Salix Caprea* L. (*Bakko-yanagi*). Shirikomabetsu (II, Sept. 11, 1925), Bokke (II, Sept. 13, 1925).

76. **Melampsora Larici-epitea** KLEB.

Hab. On leaves of *Salix viminalis* L. var. *yezoensis* C. K. SCHN. (*Kinuyanagi*). Rubeshibe (II, Sept. 9, 1925), Shirikomabetsu (II, Sept. 11, 1925).

On leaves of *Salix sachalinensis* FR. SCHM. (*Nagaba-yanagi*). Akubetsu (II, Sept. 7, 1925), Shirikomabetsu (II, III, Sept. 11, 1925).

77. **Melampsora Magnusiana** G. WAGNER

Hab. On leaves of *Populus tremula* L. var. *jezoensis* KUDÔ (*Yezo-yamanarashi*). Shirikomabetsu (II, III, Sept. 11, 1925).

78. **Melampsoridium Alni** (THÜM.) DIET.

Hab. On leaves of *Alnus Maximowiczii* CALL. (*Miyama-hannoki*). Mt.

Oakan (II, III, Sept. 10, 1925).

79. **Melampsoridium betulinum** (DESM.) KLEB.

Hab. On leaves of *Betula japonica* SIEB. (*Shirakamba*). Shirikomabetsu (II, Sept. 11, 1925).

80. **Melampsoridium Hiratsukanum** S. ITÔ

Hab. On leaves of *Alnus hirsuta* TURCZ. (*Ke-yamahannoki*). Pirikaneppu (II, Sept. 9, 1925), Shirikomabetsu (II, III, Sept. 11, 1925), Mt. Meakan (II, III, Sept. 14, 1925), Rubeshibe (II, III, Sept. 8, 1925), Onne-moshiri (II, Aug. 19, 1926).

81. **Pucciniastrum Agrimoniae** (DIET.) TRANZSCH.

Hab. On leaves of *Agrimonia pilosa* LEDEB. (*Kin-mizuhiki*). Nanamagari (II, Sept. 9, 1925).

82. **Pucciniastrum Circaeae** (THÜM.) SPEG.

Hab. On leaves of *Circaea alpina* L. (*Miyama-tanitade*). Mt. Meakan (II, July 21, 1922).

83. **Pucciniastrum Epilobii** OTTH

Hab. On leaves of *Epilobium angustifolium* L. (*Yanagiran*). Mt. Oakan (II, III, Sept. 10, 1925), Shirikomabetsu (II, III, Sept. 11, 1925).

84. **Pucciniastrum Pyrolae** (KARST.) SCHRÖT.

Hab. On leaves of *Pirola secunda* L. (*Yama-ichiyakusô*). Mt. Meakan (II, Sept. 14, 1925).

85. **Pucciniastrum Tiliae** MIYABE

Hab. On leaves of *Tilia japonica* SIMK. (*Shinanoki*). Bokke (II, Sept. 9, 1925), Mt. Oakan (II, III, Sept. 10, 1925).

86. **Thekopsora areolata** (FR.) P. MAGN.

Hab. On leaves of *Prunus Ssiori* FR. SCHM. (*Shiori-zakura*). Mt. Meakan (II, III, Sept. 14, 1925).

87. **Thekopsora guttata** (SCHRÖT.) SYD.

Hab. On leaves of *Galium trifloriforme* KOM. (*Kuruma-mugura*). Bokke

(II, Sept. 14, 1925).

Remarks: Although only uredospores are present in the specimen, they appear to be identical with those of *Thekopsora guttata*. The character of it is as follows:—Uredosori hypophyllous, scattered or gregarious, minute, round, pulvinate, yellowish orange, 0.1 to 0.24 mm. in diameter, covered by the epidermis and surrounded by a pseudoperidium which opens at the top with a pore; uredospores subglobose, ellipsoidal or ovate, 16.2–20.7 × 12.6–16.2 μ, epispore hyaline, echinulate, rather thin; contents orange-yellow in colour. The present fungus is a new addition to our flora.

88. **Thekopsora Menziesiae** HIRATSUKA

Hab. On leaves of *Menziesia pentandra* MAXIM. (*Ko-yôraku-tsutsuji*). Mt. Meakan (II, III, Sept. 15, 1925).

89. **Thekopsora myrtillina** KARST.

Hab. On leaves of *Vaccinium Chamissonis* BONG. (*Yezo-kurousugo*). Mt. Oakan (II, III, Sept. 10, 1925), Mt. Meakan (II, Aug. 22, 1926; II, Sept. 14, 1925).

90. **Thekopsora Vacciniorum** KARST.

Hab. On leaves of *Vaccinium Vitis-Idaea* L. (*Kokemomo*). Mt. Oakan (II, Aug. 21, 1926).

91. **Uredinopsis filicina** P. MAGN.

Hab. On leaves of *Dryopteris Phegopteris* C. CHR. (*Miyama-warabi*). Mt. Oakan (II, III, Sept. 10, 1925), Mt. Meakan (II, III, Sept. 14, 1925).

92. **Uredinopsis Struthiopteridis** STÖRM.

Hab. On leaves of *Matteuccia Struthiopteris* TODARO (*Kusa-sotetsu*). Rubeshibe (II, III, Sept. 8. 1925).

COLEOSPORIACEÆ

93. **Coleosporium Cacaliae** OTTH

Hab. On leaves of *Cacalia kamtschatica* KUDÔ (*Mimi-kômori*). Mt. Oakan (II, III, Sept. 10, 1925), Shirikomabetsu (II, III, Sept. 11, 1925).

94. **Coleosporium Campanulae** (PERS.) LÉV.

Hab. On leaves of *Adenophora Thunbergiana* KUDÔ (*Tsurigane-ninjin*). Nanamagari (II, III, Sept. 13, 1925), Mt. Meakan (II, III, Sept. 15, 1925).

95. **Coleosporium Ligulariae** THÜM.

Hab. On leaves of *Ligularia Hodgsoni* HOOK. (*Tôgebuki*). Mt. Meakan (III, Sept. 14, 1925), Nanamagari (III, Sept. 15, 1925).

Remarks: *Ligularia Hodgsoni* HOOK. is a new host plant of the present fungus.

96. **Coleosporium Phellodendri** KOM.

Hab. On leaves of *Phellodendron amurense* RUPR. var. *sachalinense* FR. SCHM. (*Hiroka-no-kihada*). Shirikomabetsu (II, III, Sept. 11, 1925).

97. **Coleosporium Senecionis** FR.

Hab. On leaves of *Senecio palmatus* PALL. (*Hangonsô*). Rubeshibe (II, III, Sept. 8, 1925), Pirikaneppu (II, III, Sept. 9, 1925), Shirikomabetsu (II, III, Sept. 11, 1925).

UREDINALES IMPERFECTI

98. **Uredo alpestris** SCHRÖT.

Hab. On leaves of *Viola acuminata* LEDEB. (*Yezo-no-tachitsubosumire*). Mt. Meakan (II, Sept. 15, 1925).

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摘　要

本報文ニ於テハ予ノ前後四回ノ採集ニ依リテ得タル北海道釧路國阿寒湖ヲ中心トセル一帶ノ地方(雌阿寒岳及ビ雄阿寒岳ヲ含ム)ニ産スル菌類中特ニ銹菌類ノミヲ列擧セルモノニシテ、掲グルトコロノ種類ハ九八種ナリ。即チ、*Miyagia* 屬一種、*Phragmidium* 屬七種、*Puccinia* 屬四五種、*Triphragmium* 屬一種、*Uromyces* 屬一三種、*Xenodochus* 屬一種、*Calyptospora* 屬一種、*Chrysomyxa* 屬三種、*Melampsora* 屬五種、*Melampsoridium* 屬三種、*Pucciniastrum* 屬五種、*Thekopsora* 屬五種、*Uredinopsis* 屬二種、*Coleosporium* 屬五種及ビ *Uredo* 屬一種ニシテ、其內、**オホヨブスマサウ**ニ寄生セル *Puccinia uralensis* TRANZSCH. 及ビ**クルマムグラ**ニ寄生セル *Thekopsora guttata* (SCHRÖT.) SYD. ノ二種ハ本邦ニ於テ未ダ産スル事ヲ報セラレタル事無キ種類ナリ。

本稿ヲ草スルニ當リ、懇切ナル指導ヲ賜ハリタル恩師宮部、伊藤兩博士ニ衷心ヨリ謝意ヲ表シ、併セテ特ニ大正十四年九月中旬並ビニ大正十五年八月下旬ノ二回ノ採集旅行ニ於テ行ヲ共ニシ、常ニ種々ナル助言ヲ與ヘラレ、且、寄生植物ノ檢定ノ勞ヲトラレタル館脇操氏ニ感謝ス。尙、同地方ノ旅行ニ於テ予ト行ヲ共ニシ直接、間接ニ助力ヲ與ヘラレタル岡本三男、鈴木一、阿部晃ノ諸氏ニ其ノ好意ヲ謝ス。